



### **Dr. Reeja Sundaram**

Assistant Professor (Tree Improvement)  
Department of Tree breeding and Improvement  
Forest College and Research Institute  
Dulapally, Hyderabad 500100,  
Telangana, India  
Email ID: reejafcrites@gmail.com  
9704930790.

### **Profile Summary**

Dr. Reeja Sundaram is working as an Assistant Professor at Forest College and Research Institute, Telangana. Her subjects of expertise includes Tree Genetics, Tree Breeding and Improvement with special focus on clonal forestry and Conservation Biology. She has also worked extensively on the improvement of Bio-diesel crop Jatropha. Her studies include assessment of performance of inter-specific backcross progenies of Jatropha.

She started her career in 2009 as Subject Matter Specialist at Krishi Vigyan Kendra, Vriddhachalam, Tamil Nadu Agricultural University, where she conducted Frontline demonstrations of various AgroForestry crops to generate production data and feedback information. She also organised training courses for farmers, farm women and rural youth with emphasis on "Learning by Doing" for higher production on farms and generating self-employment. She also organised training to update the extension personnel with emerging advances on regular basis.

Remote sensing is another area of interest to her with special focus on hyperspectral sensing and techniques. She had done a short term pilot project on "Estimation of Foliar Nitrogen in selected gregarious forests of Northwest Himalayan foot hills using Hyperspectral satellite data from Indian Institute of Remote Sensing. The study identified appropriate spectral bands and nitrogen indices for estimation of foliar nitrogen concentration and leaf nitrogen mass in selected Oak and Sal forest canopies through hyperspectral satellite data. She also worked as Project Scientist -D at Geomatics Center, in Aranya Bhavan, Hyderabad, during which period she was part of the team that carried out Vegetation cover mapping and Vegetation change detection and successfully prepared the 2014 State of Forest Report for AP.

Presently, she is working as Assistant Professor at Forest College and Research Institute, Telangana. She has 3 years of teaching experience in forestry. She has taught various

Courses such as Dendrology, Principles of Cytology and Genetics, Forest Genetics and Tree Improvement, Forest Protection, Seed technology and Nursery management to the B.Sc forestry graduates. She is also guiding Student READY Program for BSc Forestry students as a part of their course curriculum (0+6 Credits) where she train the students with hands on experience which helps them to build entrepreneurship skills and turn them to job creators. She has published various research papers, books and contributed some book chapters in the field of forestry.

### **Educational Qualifications**

**2008:** Doctor of Philosophy in **Forestry**, Department of Tree Breeding, Forest College and Research Institute, Mettupalayam, Tamil Nadu Agricultural University.

**2004:** Masters of Science in **Forestry**, Department of Tree Breeding, Forest College and Research Institute, Mettupalayam, Tamil Nadu Agricultural University.

**2001:** Bachelors of Science in **Forestry**, Forest College and Research Institute, Mettupalayam, Tamil Nadu Agricultural University.

**2013:** PG Diploma in Remote Sensing and GIS application for Natural Resources Management with specialization in Forestry and Ecology, Indian Institute of Remote Sensing (IIRS).

Qualified National Eligibility Test (NET) in Agroforestry conducted by ASRB in April, 2006

### **Work Experience**

- **Junior Research Fellow** for a period of 2 years funded by State Land Use Board under Tamil Nadu Agricultural University (TNAU), India.
- **Senior Research Fellow** for about 3 years under Tamil Nadu Agricultural University (TNAU), India.
- **Subject Matter Specialist (Forestry)** under Tamil Nadu Agricultural University (TNAU), India.
- **Project Scientist-D** for a period of 2 years at Aranya Bhavan, Hyderabad.
- **Assistant Professor (Forestry)** at Forest College & Research Institute, Telangana since July, 2016.

### **Membership in Scientific bodies**

1. Life member in Indian Society of Remote sensing
2. Life member in Indian Society of Genetics and Plant Breeding
3. Life Member in Indian Society of Agroforestry
4. Life Member in National Academy of Biological Sciences
5. Life Member in The Biotech Research Society of India

## Scholarly Activity

### Journal Publications

- Reeja S** and Paramathma M. Genetic studies in *Jatropha curcas* L.2018. *International Journal of Chemical Studies*. ISSN(P): 2349–8528, ISSN(E): 2321–4902.Vol(6) No.4: pp 3261-3266.
- Reeja Sundaram**, S Kala and Parthiban KT. Genetic Variability and Divergence studies in *Prosopis juliflora* DC.2018. *Journal of Pharmacognosy and Phytochemistry*. ISSN(E): 2278-4136, ISSN(P): 2349-82342018; 7(4): pp 3479-3484.
- Reeja S**, Palanikumar B and K T Parthiban,2018. Variability Studies on Seed Attributes of *Prosopis juliflora* in South India. *Int.J.Curr.Microbiol.App.Sci*.ISSN:2319-7706.Vol(7)No.3:pp 1216-1223.
- Dhruval B, **Reeja S**, Deepak K and Arijith Roy, 2018. Mapping of Foliar Nitrogen mass from the gregarious sal and oak formations surrounding doon valley using hyperion data. *International Journal of Chemical Studies*.ISSN(P):2349-8528.Vol(6) No.2: pp 2457-2462.
- S. Kala, K. Kumaran, P. Srimathi, **S. Reeja** and R.K. Singh.2017. *Journal of Tree Sciences*. Studies on Variability, Correlation and Path Analysis Using Important Seed Traits in *Bixa orellana* (L). ISSN(P): 0970-7662.Vol (36) No.1: pp 93-102.
- S.Kala, **S.Reeja** and K.Kumaran. 2017. First report on Success of stem cuttings on *Simarouba glauca*,Dc - An Easy method for Mass Multiplication of Superior mother trees.International Journal of current Microbiology and Applied Sciences. ISSN:2319-7706.Vol(6)No.4: pp 2646-2653.
- Mhaiskar Priya Rajendra, Milkuri Chiranjeeva Reddy and **Reeja S**. 2016. Vegetative Propagation of *Pittosporum Floribundum* – A Lesser Known Multipurpose Tree Species. International Journal Of Agricultural Science And Research (Ijasr) Issn(P): 2250-0057; Issn(E): 2321-0087 Vol. 6.
- S.Kala, **S.Reeja** and Kumaran K, 2017. Development of Seedling Grading Technique on *Eucalyptus tereticornis*. For Improving Growth and Biomass Production. Indian Forester.In Press.
- S.Kala, K.Kumaran, A.R.Uthappa, **S.Reeja**, M.Prabhavathi, I.Rashmi and R.K.Singh Standardization of Clonal Propagation on *Pongamia pinnata*(l.) Pierre Through Improved Stem Cutting Method.2017.*Indian Journal of Agroforestry*.
- S.Kala, K.Kumaran, V.Subbulakshmi, **S.Reeja**, I.Rashmi, M.Prabhavati and R.K.Singh. 2016. Development of Epicotyl grafting in *Pongamia pinnata* - An improved vegetative propagation technique for high quality planting stock production. National Symposium on Agroforestry, Jhansi.
- M.Paramathma, **S.Reeja**, K.T.Parthiban and D.Malarvizhi. Development of Interspecific hybrids in *Jatropha*. 2006. National Conference on Biodiesel towards Energy Independence,Hyderabad.

Umesh Khanna, K.T.Parthiban, **S.Reeja** and V.Subbulakshmi.2012. Improvement,Utilization and value chain management in *Prosopis juliflora*-Experiences from Tamil Nadu.NAIP All India Workshop on Utilization of *Prosopis juliflora*-Challenges and opportunities.

**Reeja Sundaram** and M.Paramathma. 2013. Association studies in *Jatropha curcas* L. Paper presented in 3<sup>rd</sup> International Science Congress,Coimbatore.

K.R.Dhixya Deve,M.Uma Devi, **S.Reeja** and S.Kala.2014.Influence of Bio and Inorganic fertilizers on growth,yield and nutrient uptake of Grain Amaranth (*Amaranthus hypochondriacus* Linn.). 4<sup>th</sup> International Science Congress,Udaipur.

**Reeja Sundaram** and Parthiban K.T.2017.Variability and Association studies for seed parameters of *Prosopis juliflora* DC.National Conference on Frontiers of Plant Research-Prospects and Challenges.

### **Books**

Eetela Sathyanarayana ,M Santhosh, **Reeja S** and Sandeep S.Hadole. Soil Science Treatise 2/ed. Jaya Publishing house.2018.

Eetela Sathyanarayana, M Santhosh, **Reeja S**, Sandeep S. Hadole, S Sai Siddartha Naik, Jaffar Shaik and Meenakshi Bai R. A Competitive Book on Soil Science for SAUs Entrance, JRF, SRF, NET & ARS 2nd Edition. Jaya Publishing house.2018.

Eetela Sathyanarayana ,M Santhosh, **Reeja S** and Sandeep S.Hadole. Manures, fertilizers and soil fertility Management. DnyanPath Publications.2018.

### **Book Chapters**

Two Chapters in the Book “Indian Forestry-A Breakthrough Approach in Forest Service”:  
**Forest Tree Improvement and Biotechnology, Silvicultural Systems.** Jain publication.2010.

One Chapter in the Book “Agroforestry -Theory and Practices”:  
**Agroforestry Systems of India.** Scientific Publishers.2013.