

BIODATA



01. Name : Dr. M. V. Durai
02. Educational Qualification : Ph. D (Forestry)
03. Designation : Research Officer
04. Core Specialization : Forest Seed and Forest Soils
05. Research Interest : Epigenetics, Stress Physiology & Climate Change
06. Ongoing projects

❖ Improvement and popularization of *Swietenia mahogani* for rural livelihood promotion in Tree–Outside-Forests (TOFs) – A potential timber yielding tree species of meliaceae (2014 – 2017) - Funded by Tamil Nadu Forest Department, Chennai.

07. Project completed as a PI

- Development of low cost technique of enriched vermicompost for commercial production (2008 – 2011) - Funded by ICFRE, Dehradun.
- Selection & evaluation of potential seed sources of *Gmelina arborea* from Jharkhand and adjoining states (2009- 2013) - Funded by ICFRE, Dehradun.
- Effect of humic acid on rooting behaviour of selected tree species (2009 -2011) - Funded by ICFRE, Dehradun.
- Enhancement of soil organic carbon and nitrogen sequestration potential of coal mine soil in Jharkhand (2010 -2013) - Funded by ICFRE, Dehradun.

08. **Publications**

a). Research Article in Peer Reviewed Journals

1. Durai M V (2013). First report on *Armillaria tabescens* (Scop.) causing root rots in *Dalbergia sissoo* in India. *Current Biotica*, **6**(4): 504 – 508.
2. Durai, M V and A Senthil Murugan (2013). Responses of tree species in vermicompost and vermin-lechate incorporated coal mine soil. *Indian Forester*, **139** (12): 1092-1096.
3. Durai M V (2013). Vermibed - lechate for enhanced of growth of seedlings of *Gmelina arborea*. *Indian Forester*, **139** (6): 559 – 561.
4. Durai M V and S Sankar (2011). Criteria and Indicators for sustainable agroforestry management: Home garden agroforestry system. *Indian Forester* (Ref: RA 316/2011).
5. Durai M. V. (2013). Influences of Biotic Factors on Productivity of Homegarden Agroforestry System. *Indian Forester*, **139** (9).
6. Durai, M. V. and S. Sankar (2013). Criteria and Indicators for Sustainable Agroforestry Management: Homegarden Agroforestry System. *Indian Forester*, **138** (12).

7. Durai M V (2012). Influences of biotic factors on productivity of home garden agroforestry system. *Indian Forester*, **138**(12): 1125 – 1130.
8. Durai M V (2012). Effect of root trainer size on quality of seedlings production of *Gmelina arborea*. *Indian Forester*, **138**(4): 383 – 385.
9. Durai M V, A Senthil Murugan, Smitha G Nair and R Das (2011). Physico-chemical properties of soils of mangrove forest in Sundarbans Tiger Reserve in West Bengal, India. *Indian Forester*, **137**(9): 1092 – 1098.
10. Durai M V, P K Ralhan, R Sharma, A Singh and S Chauhan (2009). Nutrient harvest through pruned material and whole tree in *Populus deltoides* based agri-silviculture system in Central Punjab. *Indian Forester* 135(12): 1716 – 1723.
11. Durai V, S Sankar and U M Chandrasekhara (2005). Attitude of the farmers on tree species cultivation in homestead farming. *Journal of Non-Timber Forest Products* **12**(3): 151 – 156.
12. Durai V, R. Ezhumalai, S. Sankar and U. Chandrasekhara (2005). As assessment of structure and possibility of interventions in the homesteads of Central Agro-climatic Zone in Kerala. *My Forest* **41**(1): 29-40.
13. Durai M V (2012). Occurrence of Albino seedlings in *Swietenia mahagoni* (L.)Jacq. *Indian Forester* 138(5): 486 – 487.
14. Durai M V (2010). Growth performance of mangroves in fresh water environment. *Indian Forester* 138(5): 687 -688.

b). Chapter in Book/Proceeding

1. Durai M V (2014). A Hand book of Soil, Plant, water, fertilizer and manure analysis. NIPA, New Delhi, 245Pp (ISBN 978-93-81450-1-5).
2. Durai M V, A. Senthil Murugan and R.Das (2011). Enhancement of carbon sequestration potential of coal mine soil through management practices. *Naturenomics* 4.0 (Vol. II: 105-114), Balipara Tract & Frontier Foundation, Assam.
3. Durai V and R. Chauhan (1999). Green gold in agroforestry. *Proceeding of National Symposium on role of agri-business enterprises in agroforestry and waste land development*, India Habitat Centre, New Delhi.

c). Popular Articles in Magazine/Dailies

1. Durai M V (2006). Measures for safe disposal of Municipal Solid Waste in Kaimbam (Karimbathe Malinya Prasnathinu Pariharamenthe? *The Makhtab* (Malayalam daily), 21 June, 2006.
2. Durai M V (2005). Jaya Diesel: Keralathinu Anuyojoyam- Rubber (Rubber: Potential tree for bio-diesel production in Kerala). *The Makhtab* (Malayalam daily), 13 Nov, 2005.
3. Durai M V (2005). Jaya Diesel Varanunnu (Bio-diesel day ahead). *The Makhtab* (Malayalam daily), 13 Oct, 2005.
4. Durai M V (2005). Ini Chnadnam nattu valarthunnthanam (Sandal Cultivation). *The Makhtab* (Malayalam daily), 31 Aug, 2005.
5. Durai M V (2005). Vana Vignanam and Paavium (Forestry and Its scope). *The Makhtab* (Malayalam daily), 11 Aug, 2005.
6. Durai V, S Saravanan and C Buvaneshwaran (2001). Terminator Technology – A major threat to global farmers. *Agro-India* (Jan- Feb), 2001.

7. Durai V, Rajini Sharma and M Angamuthu (1999). Poplar tree – A new perennial cash crop in agroforestry system. *Agro-India*, 3(6 &7): 26-28.
8. Durai V, M Angamuthu, Rajini Sharma and C S Malhi (1999). Allelopathic effects of weeds and agricultural crops. *Agro-India*, 3(8): 12-13.

d). Paper Presented in National/ International Seminar/Symposium

1. Durai, M V., A. Vijayaraghavan and P. Vijakumar (2015). Role of silicon in enhancing tolerance against abiotic and biotic stresses in plants. In abs of National Seminar on discourse on past, present, & future scenario on medicinal plants conservation in India held on 6- 7th March, 2015 at SN College, Madurai.
2. Vijayakumar, P, A.Vijayaraghavan, C.Rajesh, M.V.Durai, R.Anandalakshmi and R.S.Prashanth (2015). Conservation of *Neolamarckia cadamba* (Roxb.) Bosser. through vegetative propagation. In abs of National Seminar on discourse on past, present, & future scenario on medicinal plants conservation in India held on 6- 7th March, 2015 at SN College, Madurai.
3. Durai M V and A Senthil Murugan (2011). Impact of climate change on Forest Genetic Resource: Future Challenges. Abs. of National Seminar on Assessment and Conservation of Forest Genetic resources through Bio-technological interventions held on 19 -20 Dec, 2011, Institute of Forest Productivity, Ranchi.
4. Durai M V (2011). Studies on performances of tree species in organically reclaimed coal mine dump soil in Ranchi Dist (Jharkhand). Abs of 1st Indian Forest Congress held on 22-25 Nov, 2011, ICFRE, New Delhi.
5. Durai M V, R Das and R Krishnamurthy (2010). Assessment of soil organic carbon in different forest types and adjoining land uses in Eastern India. In abstract of International Conference on Climate Change and Bio-resource (ICCCB-2010) held on 9 -12th February, 2010 at Bharathidasan University, Tiruchirappalli, Tamil Nadu.
6. Durai M V, G Chattaraji, Sandeep, R Das, R Krishnamurthy, and S Nath (2009). Soils of mangroves forests in Sundarbans, West Bengal. In abstract of International of Conference on recent trends in life science researches vis-a-vis natural resources management, sustainable development and human welfare held on 27-29 June, 2009 at Hazaribag, Jharkhand.
7. Durai M V, Anjali kumari, G Chattaraji, R K Sinha, R Das, R Krishnamurthy, and S Nath (2009). Production of enriched vermicompost through application of cow urine and karanji cake. In abstract of IV National Forestry Conference held on 9-11 November, 2009 at FRI, Dehra Dun.
8. Durai M V, S Sankar, U M Chandrashekara and K A Abdul Salam (2001) Tree species diversity of homegardens in Kole zone, Thrissur, Kerala. In the abstracts of National Seminar on Biodiversity conservation: Challenges for 21st Century held on Nov 26 –28 2001 at Jiwaji University, Gwalior, and M.P.
9. Soosai Raj S, **V Durai**, D I Arokiasamy and John Britto (2000). Analysis of Tree species diversity in the riverbank of Cauvery, Tamil Nadu. In Abstracts of National

Symposium on Recent trends in plant science research held on 17-18 April 2000 at Kerala University, Karivattam, Thiruvanthapuram, Kerala.

10. Salam K A, U M Chandrashekar, S Sankar and V **Durai** (2001) Assessment of factors impeding tree/bamboo cultivation on the homesteads of Kerala. In the abstracts of 11th Swadeshi Science Congress on Biodiversity conservation and management held on 7-9 Nov 2001 at Kerala Forest Research Institute, Peechi. Thrissur, Kerala.
11. Durai V, P K Ralhan, R Sharma and A Singh (1999). Nutrient removal through pruned biomass and whole tree biomass of poplar (*Populus deltoides* Bartr.) in agrisilviculture system. In Abstracts of National Symposium on Forestry towards 21st Century held on Sept. 27-28 at TNAU, Coimbatore, Tamilnadu.
12. Durai V, P K Ralhan and I M Chhibba (1999). Production of pruned biomass and whole tree biomass of poplar (*Populus deltoides* Bartr.) in agrisilviculture system. In Abstracts of National Symposium on Forestry towards 21st Century held on Sept 27-28 at TNAU, Coimbatore, Tamil Nadu (poster).

e). **Appreciation by Media & Authority**

1. Equipping students for conservation. The Hindu (Kannur edition): 18 Oct, 2005
2. Experiment on mangrove growing, *The Hindu*: 08 November 2005
3. B.Sc Vircha Sastharam, *Malayala Manorama*: 22 August 2005
4. Orunkannu: Marankallote Library, *Mathurbhumi*: 14 December 2005
5. Marankallote Kuttukarar, *India Today*: 01 November 2005
6. Kirishi –idaikkale Bisnii: Padai injuu, *Mathimum*: 21 November 2005
7. Jatropa cultivation on farm lands as cash crop in Taliparamba (Kannur), *Malayala Manorama*: 9th Sept, 2006.
8. Solid waste management, *Mathurbhumi & Malayala Manorama*: 19 Aug, 2006.
9. Organic farming, *Malayala Manorama*: 19 Aug, 2006.
10. Mangroves in fresh water environmental condition, *Makthab*: 29 Oct, 2005, *Malayala Manorama*: 30 Oct, 2005, *Chandrika*: 31 Oct, 2005, *Madhimum*: 31 Oct, 2005 & *Deshbhimani*: 29 Oct, 2005.
11. Remedial measures for pest infected *Alstonia scholaris* (> 50 yrs old tree).
12. Appreciation letter of M/S. Churi Colliery, CCL, Khillari (Ranchi).

09. **Consultancies rendered:**

- Service render to Central Coalfields of India Ltd. (CCL), Khilari (Ranchi), Jharkhand India on “Mapping of boundary of the Reserve forest allotted to CCL for mining with help of GPS”.

10. **Trainings/ Workshops**

- Three days training programme on Bamboos – its importance, utilization and conservation held on 26- 28th Feb, 2015 at IFGTB, Coimbatore.
- One day workshop on “Arriving Strategies and Technologies to tackle the invasive species in sholas held on 17.02.2014 at Ooty organized by Tamil Nadu Forest Department.
- A 3-days “Sensitization course in Forest Wildlife and Environmental Conservation for officers of other departments” held on 12 1-4 Feb, 2014 organized by IFGTB, Coimbatore, Tamil Nadu.

- 10-weeks Induction training for scientists & research officers of ICFRE held on 15th March – 23rd May, 2010 at FRI, Dehra Dun.
- 5-Days training programme on Carbon Sequestration held on 05-09 October, 2009 at BCC, ICFRE, Dehra Dun
- 5-Days training programme on Restoration of waste lands held on 13-17 July, 2009 at BCC, ICFRE, Dehra Dun
- One week training programme on Identification and use of mycorrhizal fungi in forestry held on 26th May – 04th June 2009 at TNAU, Coimbatore (TN)
- One week training programme on Pest Management in Forestry held on 10-19 Feb, 2009 at NCIPM, IARI, New Delhi.
- Ph.D. Course work: Computer Application & Statistical Analysis from 1st Jan – 31st March, 2003 at KFRI, Peechi, Thrissur.
- 2-day workshop for handicrafts and artisans on Self-help and Community Mobilization in to community based enterprises held on 24-25 Sept, 2001 at KFRI, Peechi, Thrissur.

11. **Foreign visits:** Nil

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Coimbatore (Tamil Nadu).