

BIO-DATA

Name: Dr A. Rajasekaran

Educational Qualification: Ph.D (Botany)

Designation: Scientist-E

Date of Birth: 25.06.1971

Sex (M/ F): Male

Nationality: Indian

Division: Forest Ecology and Climate Change
Institute of Forest Genetics and Tree Breeding (IFGTB)
(Indian Council of Forestry Research & Education-ICFRE)
P.B. No.1061, Forest Campus, R.S. Puram,
Coimbatore -641 002, Tamilnadu
Phone: 0422- 2484155
Email: rajasekarana@icfre.org

Core specialization: Non-Wood Forest Products & Plant Ecology

Research Interests: Application of Geospatial technology in Forestry
Ecological studies on NWFP especially medicinal plants
Phytochemistry of medicinal plants and other NWFP's



Educational Qualification: (Post-Graduation onwards & Professional Career):

Sr. No.	Institution Place	Degree Awarded	Year	Award/ Prize/ Certificate
1	Bharathidasan University, Trichy, Tamilnadu	M.Sc. (Botany)	1991-93	The Prof. V. Rangarajan & Rev. Dr. Fanquet Medals
2	Madras University, Chennai, Tamilnadu	B.Ed (Biology)	1993-94	-
3	Bharathiar University, Coimbatore, Tamilnadu	Ph.D (Botany)	2001	-

Ph.D Thesis: "Ecology and utilization of medicinal plants with special reference to select tribal groups in the Nilgiri Biosphere Reserve"

Research Experience:

Name of the Institute	Designation/ Grade	Period		Work Done
		From	To	
Salim Ali Centre for Ornithology and Natural History, Coimbatore	Junior Research Fellow	May 1994	April 1996	Ecological studies on medicinal plants in the Nilgiri Biosphere Reserve, South India
Salim Ali Centre for Ornithology and Natural History, Coimbatore	Senior Research Fellow	May 1996	October 1997	Ecological studies on medicinal plants in the Nilgiri Biosphere Reserve, South India
Salim Ali Centre for Ornithology and Natural History	Senior Research Fellow	Dec. 1998	April 2003	Floristic surveys, Environmental Impact Assessment
Himalayan Forest Research Institute, Shimla	Scientist	April 2003	June 2013	Ecological studies on Non-Wood Forest Products, phytochemical studies, nursery technique of medicinal plants and Environmental Impact Assessment
Institute of Forest Genetics and Tree Breeding, Coimbatore	Scientist	June 2013	Till date	Application of Remote sensing, GPS and GIS in Forestry Ecological studies on NWFP especially medicinal plants Biochemistry of medicinal plants and other NWFP's

Project carried out as Principal investigator:

Sl. No.	Title of Project	Funding Agency	Duration From To	No. of Scientists/ Associates worked under the project	Total Approved Cost of the Project (Rs in Lacs)
1	Studies on population status and berberine content in different provenances of <i>Berberis aristata</i> in Himachal Pradesh and standardization of its propagation techniques (<i>In Collaboration with FRI, Dehradun</i>)	Department of Biotechnology, Government of India	Aug 2005- July 2008	2	13.04
2.	Inventorization, documentation of plant	GB Pant Institute of	April 2005 –	3	5.61

	diversity and to evolve site-specific management strategies for conservation of various sacred groves in Kullu Valley of Himachal Pradesh	Himalayan Environment & Development, Almora	March 2008		
3.	Assessment of optimum harvest limits of <i>Picrorhiza kurrooa</i> and <i>Valeriana jatamansi</i> in Himachal Pradesh	ICFRE	April 2008-March 2011	3	26.62
4.	Assessment of nutritional status of most preferred wild edible plants of Kinnaur District, Himachal Pradesh	ICFRE	April 2009 March 2014	5	11.40

Project (s) carried out as Co- investigator:

- (i) “Development of suitable model for intercropping of commercially important medicinal plants with horticultural plantations in temperate regions of Himachal Pradesh” funded by Department of Biotechnology (DBT), Govt. of India.
- (ii) “Suitability of *Jatropha curcas* L. seed sources in lower and mid Himalayan regions of Himachal Pradesh” funded by Department of Biotechnology (DBT), Govt. of India.
- (iii) “Setting up of 100 ha. demonstration plot in H. P. and production of elite planting material of *Dendrocalamus hamiltonii*” funded by Department of Biotechnology (DBT), Govt. of India.

Ongoing Research projects as Principal investigator:

Sl No.	Title of Project	Funding Agency	Amount (In Lakhs)	Duration
1	Mapping and monitoring of Eucalyptus and Casuarina plantations in Tamilnadu using Remote sensing and Geographical Information system	ICFRE	Rs. 21.0	April, 2013 4 Years
2	Spatial mapping and modelling of Wattle invasion in Shola Grassland ecosystems of Tamil Nadu and Kerala	ICFRE	Rs. 15.70	2017 – 2020 3 years

Ongoing Research projects as Co- investigator:

- (i) Documentation of population demography and genetic structure of teak for developing sustainable conservation strategies and resource management funded by Department of Biotechnology (DBT), Govt. of India.
- (ii) Development of descriptors and DUS testing guidelines for *Ailanthus excelsa* Roxb. and establishment of Gene Bank funded by Protection of Plant Varieties and Farmers' Rights Authority, Ministry of Agriculture, Govt of India.
- (iii) Selection and screening of germplasm of *Acacia nilotica* L. to improve productivity in Tamil Nadu funded by ICFRE.

Consultancies rendered:

As expert on medicinal plants involved in the following EIA consultancy projects of Council/Institute;

- a. Environmental Impact Assessment studies and preparation of Environmental Management Plan for Renuka Hydroelectric project Sirmaur District of Himachal Pradesh.
- b. Environmental Impact Assessment studies and preparation of Environmental Management Plan for Integrated Kasang Hydroelectric project (243 MW), Kinnaur District of Himachal Pradesh for Himachal Pradesh Power Corporation Ltd, Shimla.
- c. Environmental Impact Assessment studies and preparation of Environmental Management Plan for Kuthed Hydroelectric project (260 MW), Chamba District of Himachal Pradesh.
- d. Environment Impact Assessment and Environment Management Plan for ThanaPlaun (141MW) Hydro-Electric Project, Himachal Pradesh.
- e. Environment Impact Assessment and Environment Management Plan for Nakthan Hydro-Electric Project (Tosh-Parvati), Himachal Pradesh (520MW).
- f. Preparation of CAT plan for Kuthed Hydro-electric project area.
- g. Environment Impact Assessment and Environment Management Plan for Triveni Mahadev (Nichli Beri) Hydro-Electric Project (78MW), Himachal Pradesh.
- h. Environment Impact Assessment and Environment Management Plan for Surgani-Sundla Hydro-Electric Project (48MW), Himachal Pradesh.
- i. Cumulative Environmental Impact Assessment of Hydro-electric projects in Sutlej basin, Himachal Pradesh

Publications: 35

Chapters in Books:	5
Research papers:	24
National:	6 (papers in Proceedings)

Trainings participated:

S.No	Title of the Course	Conducted / Organized by (Name & Address)	Dates	
			From	To
1	Eco-rehabilitation of degraded lands	ICFRE, Dehradun	3 rd August, 2009	7 August., 2009
2	Six week Basic Forestry training	ICFRE, Dehradun	15 th Dec., 2008	23 rd Dec., 2008
3	Forest Certification for sustainable forest Management	Indian Institute of Forest Management, Bhopal	25 th June, 2008	27 th June, 2008
4	Introduction to ArcGIS	ESRI, India New Delhi	28 th April 2008	30 th April 2008
5	Climate Change & Forests	Biodiversity and Climate Change Division, ICFRE	31 st January 2011	4 th February 2011
6	Cultivation and processing of medicinal plants	Institute of Himalayan Bioresource Technology, Palampur.	18 th March 2012	24 th March 2012
7	Geospatial Technologies	Department of Remote sensing and GIS, Tamilnadu Agricultural University, Coimbatore	30 th September 2015	20 th October 2015
8	Open Source Geospatial Technology for stakeholders of states of south western Ghats for biodiversity conservation	Open Source Geospatial India, Hyderabad	20 th June 2016	25 th June 2016

(Dr A.Rajasekaran)