

01. **Name** : Dr. V. MOHAN
02. **Educational Qualification** : M.Sc., M.Phil., Ph.D.
03. **Designation** : SCIENTIST-E
04. **Core Specialization** : FOREST PATHOLOGY



05. **Research Interest** :

- Disease problems and their management in Forest Nurseries and Plantations.
- Screening of breeding populations of commercially important plantation species against diseases.
- Isolation, characterization, identification, pure culture production and mass multiplication of mycorrhizal fungi and other beneficial microbes.
- Molecular characterization of different beneficial microbes.
- Study the efficacy of different bio-inoculants and bio-manures on growth improvement of important tree species in nursery and field.
- Determine the efficacy of bio-inoculants for reclamation and rehabilitation of problem soils such as saline, mined overburden areas etc.
- Diversity of mushroom flora in forest ecosystem.
- Study on beneficial microbial interaction with trees in heavy metal contaminated sites in Tamil Nadu.

06. **Ongoing projects** :

- (1) Selection, evaluation and identification of efficient bio-inoculants for quality seedling production of selected fast growing native tree species (NFRP-ICFRE)
- (2) Influence of beneficial microbes in conferring salt tolerance to *Casuarina* clones (NFRP-ICFRE)
- (3) Exploitation and utilization of beneficial microflora from the sholas for restoration of degraded shola forests in the Nigiri Hills, Tamil Nadu (EAP)
- (4) Impact of Continuous Moisture on Growth, Flowering, Seed Production and Wood Characteristics of Canal Teak Plantations in Tamil Nadu (NFRP – ICFRE).
- (5) Impact of forest plantation on ground floral diversity and soil characteristics including the prescription of management practices (NFRP – ICFRE).

07. **Publication** :

Books : 2 Nos. (1 in English and 1 in Malayalam)

Chapters in Books : 20

Research papers : 47

National	: 36
International	: 10
Reviews	: --
Popular articles	: 01

08. **Consultancies rendered** : Total of 11 different consultancy services have been carried out. Details are given under:

- (1) Rendered consultancy services to Andhra Pradesh Forest Development Corporation (APFDC Ltd.), Anhdra Pradesh on “Clonal Multiplication Programme on Eucalyptus” during 1997-2000. As a Technical Member, investigating pathological problems of clonal plants of *Eucalyptus* and providing effective management strategies for controlling disease problems in Clonal Multiplication Areas, Clonal Testing Areas, Mist Chambers, Poly tunnels, Shade House, Nurseries.
- (2) Rendered consultancy services to Kerala Forest Development Corporation (KFDC), Kerala on “Clonal Multiplication Programme on Eucalyptus and Teak” during 2000-2002. As a Technical Member, investigating pathological problems of clonal plants of *Eucalyptus* and providing effective management strategies for controlling disease problems in Clonal Multiplication Areas, Clonal Testing Areas, Mist Chambers, Poly tunnels, Shade House, Nurseries.
- (3) Rendered consultancy services to State Forest Department, Andhra Pradesh for demonstration cum training on Compost, Vermi-compost and VAM Biofertilizers production and application methods” during the period from 23rd and 24th January, 2004.
- (4) Rendered consultancy services to West Coast Paper Mill (WCPM) for assessment of nutrient status and biofertilizers application in plantations of WCPM during 2007-2008.
- (5) Environmental Impact Assessment (EIA) studies on Bauxite mines at Araku Valley, Visakhapatnam, A.P under ICFRE Consultancy project during 2007-2008. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.

- (6) Environmental Impact Assessment (EIA) studies on bauxite mine areas at Jerrela, Vizhakhapatnam, Andhra Pradesh, ICFRE Consultancy project 2008-2009. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.
- (7) Environmental Impact Assessment (EIA) studies on Ankua Iron Ore Mine, Manoharpur Jharkhand under ICFRE consultancy project 2008-2009. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.
- (8) Environmental Impact Assessment (EIA) studies on Sankosh Multipurpose Project, Bhutan under ICFRE Consultancy project 2009-2010. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.
- (9) Environmental Impact Assessment (EIA) studies on coal Mine of ESSAR Power Jharkhand under ICFRE Consultancy project 2009-2010. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.
- (10) Biodiversity Assessment Study Report for Unnao Land Parcel, Unchahar Land Parcel and Wet Land Study of Patiyalai Land Parcel Project, District Kashiram Nagar, Unnao and Raibareilly, Uttar Pradesh) under ICFRE EIA Consultancy project 2009-2010. As a Technical Member, studying the status of microflora. The study has been successfully completed and the EIA study report has been submitted.
- (11) Environmental Impact Assessment (EIA) and Environment Management Plan (EMP) studies on Bunaka Hydro Electric Project, Bhutan under ICFRE Consultancy project during 2010-2011. As a Technical Member, studying the status of microflora.

09. **Trainings**

: 20 different trainings were undertaken in National and International organizations. Details of the important trainings are given under:

National:

- (1) Nominated and underwent one week training on **“Biofertilizers”** by Dr. Ching Y. Li, FAO Consultant, USDA Forest Service, U.S.A. organized by the ICFRE at TFRI, Jabalpur during 1994.
- (2) Nominated and underwent 2 weeks training course on **“Research Priority Setting and Proposal Writing”** imparted by Dr. Avtar Kaul and Dr. Kathryn, Winrock International Institute for Agricultural Development, USA organized by the ICFRE, Dehra dun during 1994.
- (3) Nominated and underwent 3 weeks training on **“Research Management”** conducted by Innovative Consultants Combine, Pune, Maharashtra organized by the ICFRE at AFRI, Jodhpur during 1996.
- (4) Nominated and underwent 2 weeks training on **“Mycorrhizal Systems”** at Centre for Advanced Studies in Agricultural Microbiology (CASAM), Tamil Nadu Agricultural University (TNAU), Coimbatore during 1999.
- (5) Nominated and underwent one week training on **“Dataplust and Genstat”** imparted by Dr. Chris Harwood, CSIRO-FFP, Australia organized by the ICFRE at IFGTB, Coimbatore during 1999.
- (6) Nominated and underwent 3 weeks training on **“Techniques in Microbial Genetics”** at Centre for Advanced Studies in Agricultural Microbiology (CASAM), Tamil Nadu Agricultural University (TNAU), Coimbatore during 2000.
- (7) Nominated and underwent one week training on **“Intellectual Property Rights and World Trade Organization Related Issues”** at Administrative Staff College of India (ASCI), Hyderabad, Andhra Pradesh, India during 2006.
- (8) Nominated and underwent one week training on **“Effective Leadership and Creativity for Senior Scientists”** at Administrative Staff College of India (ASCI), Hyderabad, Andhra Pradesh, India during 2008.
- (9) Nominated and underwent one week training on **“Rust Fungi in Weed Management”** imparted by

Dr. Roger Shivas, Principal Plant Pathologist, Department of Primary Industries, Queensland, Australia organized by IFGTB, Coimbatore during January, 2010.

International:

- (1) Nominated and underwent training on “**Seed Technology**” at New Zealand FRI, Rotorua and Massey University, New Zealand under UNDP/ FAO Fellowship for the period from 1st May to 31st July, 1994.
- (2) Nominated and underwent training in the field of “**Biofertilizers - Techniques in Mycorrhizal Fungi**” for 12 weeks training under the supervision of Prof. David M. Sylvia, Soil and Water Science Department, University of Florida, U.S.A. for the period from 19th March to 18th June, 2001.

10. **Foreign visits**

: Two countries were visited under different fellowships. Details are given under:

- (1) Visited **New Zealand Forest Research Institute (NZ FRI), Rotorua and Massey University, New Zealand** for undertaking training on “**Seed Technology**” under UNDP/ FAO Fellowship for the period of 3 months from 1st May to 31st July, 1994.
- (2) Visited **University of Florida, Gainesville, U.S.A.** for undertaking training in the field of “**Biofertilizers - Techniques in Mycorrhizal Fungi**” under ICFRE– World Bank Fellowship and it was imparted by Prof. David M. Sylvia, Soil and Water Science Department, University of Florida, U.S.A. for the period of 3 months from 19th March to 18th June, 2001.

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