



RESUME

NISHA PRIYA MANI

- ENVIRONMENTAL PROFESSIONAL

OBJECTIVE

To effectively contribute to environmental conservation efforts with sustainability as the driving principle.

KNOWLEDGE & SKILLS

Environmental Rules and Regulations

Environmental & Social Governance

Climate Change Adaptation & Mitigation Policies

Lake conservation methodologies

Nature Based Solutions for environmental issues

Environmental Impact Assessment & Management Planning

Gender sensitive approach

EXPERIENCE (15+ YEARS)

PROJECT MANAGER • THE NATURE CONSERVANCY - INDIA • DEC 17 – TILL DATE

- Manage pilot project on science-based restoration of an urban wetland in Chennai.
- Co-ordinate conducting baseline surveys and lead development of lake eco-restoration plan using nature-based solutions. Planning and implementation of long monitoring and evaluation of the lake restoration project and its outcomes.
- To pilot Internet of Things (IoT) based water quality monitoring for surface water quality.
- Providing technical inputs for preparation of Request for Proposals (RfP) and Terms of Reference (ToR) for engagement with partner organisations/ consultants.
- Handle donor relations and reporting requirements.
- Create manual on best practices for eco-restoration of urban lakes
- Liaise with Government agencies for their engagement in our environmental projects

CONSULTANT – CLIMATE CHANGE ADAPTATION & MITIGATION • MINISTRY OF ENVIRONMENT FOREST AND CLIMATE CHANGE – NEW DELHI, INDIA • MAY 2015 – MAY 2016

- Performed analysis and provided inputs on national and international policies on Climate change mitigation and adaptation.
- Worked on India's national document on "Nationally Determined Contributions (NDC)", prepared for the United Nations Convention on Climate Change (UNFCCC) in the run up to the conference on 'Paris Climate Change Agreement' in December 2015.



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MANI

- Performed research and provided inputs to the Ministry on national challenges in climate change adaptation such as identifying gaps in institutional set up, status of adaptation in various sectors, lack of funds and technology, vulnerability assessments etc.
- Provided inputs for communication materials, responses to parliamentary questions on India's climate change actions and programmes.
- Providing inputs for concept notes and ToR for proposals on scientific programmes of the Ministry.
- Co-ordinate scientific programs of the Ministry such as establishment of Long-term Ecological Observatory, Studies on Climate Change in Northeastern Region of India and National Aerosols Programmes, as a part of promoting research and capacity building in the field of climate change.
- Managed social media (Twitter account) for the Ministry during COP 21 on Paris Climate Agreement.

SENIOR MANAGER –RAMKY ENVIRO ENGINEERS • MARCH 2010 -MAY 2015

- Team leader - Led strategic development of business in offering integrated environmental services for various industries and organizations to meet environmental compliance standards.
- As a Quality Council of India - National Accreditation Board for Education and Training (QCI – NABET) accredited expert for environmental impact assessment (EIA) for water and solid waste pollution, spearheaded environmental assessments for various categories of industries including oil and natural gas mining, thermal power plants, automobile manufacturing, industrial and residential infrastructure projects etc.
- Planning and execution of environment baseline assessments as stipulated in the Environmental Impact Assessment Notification, 2006.
- Involved in preparation of environmental management plans for control of pollution in air, water and soil environment to ensure statutory compliance under Water (P&CP) 1971 and Air (P&CP) 1986 Act.
- Developed methodology for sustainable solid waste management practices for domestic as well as industrial hazardous waste by designing environmentally sound treatment and disposal methods.
- Worked on projects involving contaminated land remediation, lake rejuvenation and restoration involving detailed hydro-geological survey, socio-economic survey and bio-diversity assessments.
- Worked on the Government's 'Rajiv Gandhi Awas Yojana - Housing for all scheme' project that involved in depth socio- economic assessment and bench marking available infrastructure in rural areas for development of sustainable housing and infrastructure.
- Providing technical inputs for Tender submission and Request for proposal, drafting Terms of Reference for procuring specific services as per project requirement.
- Evaluation of environmental compliance reports for various industries, institutions,

hospitals etc. in accordance with the applicable environmental regulations.

- Conduct public hearing meetings on project proposals for obtaining statutory environmental clearances.
- Carried out business development and client management activities.

CONSULTANT (FREE LANCER) VERDURE ENVIRON, CHENNAI, INDIA.

• JAN '09 – MAR '10

Key responsibilities and accomplishments:

- Preparation of reports on environmental impact assessment, environmental management planning and evaluation of environmental compliance for several projects of various sectors.
- Developed environmental management plans encompassing water recycling and conservation, enhanced energy efficiency, sustainable solid waste management and conservation of biodiversity for various project planning.
- Carried out detailed investigations of baseline air, water, soil, noise pollution and biodiversity in the study area. Conducted in depth socio-economic analysis to evaluate the vulnerability and suggest appropriate remedial measures to ensure sustainability of the local community.
- Provided technical advisory on environmental management for several categories of industries for achieving environmental compliance as per applicable statutory regulations.
- Worked for the Tamilnadu Pollution Control Board in collecting and collating the information on the environmental status of the State for the year 2007-2008. Assisted in preparation of the report, 'Dissemination of Information by State Pollution Control Board, 2007-2008'.

PROJECT CO-ORDINATOR • PURE ENVIRO ENGINEERS LTD, CHENNAI • INDIA. MAR '08 – DEC '08

- Carried out environmental impact assessments (EIA) for proposed and existing projects. Involved in preparation of environmental management and disaster management plans in accordance with the relevant environmental guidelines.
- Designed water conservation, wastewater treatment and solid waste management plans for various development projects.
- Liaise with Ministry of Environment, Forest, and Climate Change (MoEFCC)/ Central State Pollution Control Boards (SPCBs) for obtaining statutory Environmental Clearances and Consent to Establish and Operation for projects.

**PH.D - RESEARCH SCHOLAR • CENTRE FOR ENVIRONMENTAL STUDIES,
• ANNA UNIVERSITY, • CHENNAI, JAN '03- DEC '06**

- Research Topic: Solar Energy Driven Electrochemical treatment for textile dyeing effluents. (A green approach for wastewater treatment)
- Research involved: Investigation of electrochemical methods (electro oxidation, electro-dialysis, and bi- polar dialysis) for the treatment of textile dyeing effluents, without chemical addition and using solar energy from photovoltaic cells. Study the effect of various operating variables on the electrochemical process for achieving maximum efficiency in pollutant removal and recovery of inorganics in the form of acid and alkali.
- Work involved regular analysis of basic water quality parameters in water and wastewater, use of sophisticated instruments for analysis like TOC (Total Organic Carbon) analyzer, IC (Ion chromatography), Flame spectrometry and UV-VIS (Ultraviolet visible) spectrometer.

PROJECT ASSOCIATE • CENTRE FOR ENVIRONMENTAL STUDIES, ANNA UNIVERSITY, CHENNAI & DEPARTMENT OF SCIENCE AND TECHNOLOGY, INDIA • MAY 2005 - NOVEMBER 2005

Project: Water quality assessment in the tsunami affected coastal areas of Chennai - Tamil Nadu.

Responsibilities: Water quality monitoring in tsunami affected coastal areas of Chennai and delineating the affected areas using Geographical Information System (GIS).

TRAINEE (POSTGRADUATE TRAINEE) • SVS OIL MILL, CHENNAI, INDIA. • MAY 2001 - JUN 2001

- Monitoring and analysis of effluent samples collected from different wastewater treatment units in an oil refining industry.
- Evaluate the functioning and treatment efficiencies of various wastewater treatment units used in the treatment scheme.
- Prepared environmental compliance report for treated wastewater discharge and submitted to SVS oil mill.

EDUCATION

PH.D, ENVIRONMENTAL SCIENCE • CENTRE FOR ENVIRONMENTAL STUDIES, ANNA UNIVERSITY • JAN 2003 – DEC 2006

Thesis: Solar Energy Driven Electrochemical Treatment of Textile Dyeing Effluents

M.SC, ENVIRONMENTAL SCIENCE • CENTRE FOR ENVIRONMENTAL STUDIES, ANNA UNIVERSITY • JUL 2000 – MAY 2002

B.SC. – MICROBIOLOGY DR. MGR JANAKI COLLEGE OF ARTS AND SCIENCE, UNIVERSITY OF MADRAS, INDIA, APR '97- MAY '00

PROFESSIONAL ACCREDITATIONS AND RECOGNITIONS

- Cleared University Grants Commission -National Eligibility Test (UGC-NET) -2003 for 'National **Eligibility for Lectureship in Environmental Science**' with permanent validity.
- Accredited by National Accreditation Board of Education and Training – Quality Council of India (NABET- QCI) as **functional area expert** in the fields of **Water Pollution and Solid waste pollution**', during my tenure in Ramky Enviro Engineers Ltd in 2014 (Validity expired).

COURSES UNDERTAKEN

- Completed open online course on “**Introduction to the World Bank Environmental and Social Framework**” conducted by Open Learning Campus of the World Bank Group, October -2021
- Completed open online course on “**Gender and Environment**” conducted by United Nations Institute for Training and Research, Global Environmental Fund, UNDP, UN- CC: Learn, April -2021
- Completed online course on “**Urban Wetland Management**” conducted by Centre for Science and Environment, New Delhi, September 2020.
- Completed certificate course on “**Monitoring and Evaluation of Climate Mitigation Initiatives**” conducted by World Bank Group, The Online Learning Campus, November - 2016.
- Completed certificate course on “**Introductory E-course on climate change**” conducted by UNEP andUNITAR, March -2015

PUBLICATIONS

- Recovery of acid and alkali from textile effluents using electrochemical methods and solar energy – Treatment for dye and total dissolved solids removal, M. Nisha Priya and K. Palanivelu, International Journal of Chemistry, Environmental & Technology, Vol.1(3) July 2013 (24-37)
- Removal of total dissolved solids with simultaneous recovery of acid and alkali using bipolar membrane electrodialysis - Application to RO reject of textile effluent, M. Nisha Priya and K. Palanivelu, Indian Journal of Chemical Technology, 13 (2006) 262.
- Water quality assessment in the Tsunami affected coastal areas of Tamil Nadu – Adyar, K. Palanivelu, M.Nisha Priya, A. Muthamizh selvan and Usha Natesan, Current Science, VOL. 91, NO. 5, 10 2006
- Nitrate removal from ground water using electrolytic reduction method, Raghu Prasad, M. Nisha Priya and K. Palanivelu, Indian Journal of Chemical Technology, 2005, Vol 12,

pp, 164- 169.

- Electrochemical treatment of Landfill Leachate, M. Nisha Priya, S. Esakku and K. Palanivelu, Indian Chemical Engineer, Vol47, No 4 (2005) 272.
- Solar energy driven electrochemical degradation of reactive dye green HE4BD, Coloration Technology, M. Nisha Priya and K. Palanivelu, 121 (2005)198.
- Destruction of cyanide in aqueous waste using electrochemical oxidation M. Nisha Priya and K. Palanivelu, Annali di Chimica, 2003, Vol.93, Iss 9- 10, pp 719 – 848 (Inter Science Wileypublications).