

Ajay Achyutao Deshpande

EXPERTISE

Environmental governance, environmental Safeguards, Industrial and Urban Environmental Management, Urban Environmental pollution, Climate change, Environmental law and policy, Air quality management, Sustainable development

EDUCATION

Walchand College of Engineering, Sangli, India

1984-1988

B Engg (Civil Engineering)

Walchand College Of Engineering, Sangli, India

1988-1990

M Engg (Environmental Engineering)

Indian Institute of Technology, Delhi

1998

Doctorate in Engineering (Environmental Engineering)

LANGUAGES AND DEGREE OF PROFICIENCY

- English (Reading, Speaking, Writing) **Excellent**
- Hindi (Reading, Speaking, Writing) **Excellent**
- Marathi (Reading, Speaking, Writing) **Excellent**

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Life Member, Indian Environmental Association

Life Member, Indian Society For Technical Education

Ex-Member, International Association of Impact Assessment

COUNTRIES OF WORK EXPERIENCE

India, Bhutan, Nepal

Countries visited for work experience

Germany, Austria, US, Indonesia, Switzerland

EMPLOYMENT RECORD

- Expert Member, National Green Tribunal (NGT), Govt of India. *Environmental justice and safeguards for environmental protection and conservation of forests and other natural resources including enforcement of any legal right relating to environment and giving relief and compensation for damages to persons and property. The scope also includes restitution and restoration strategies. This is a very senior level position at National level (Apex Scale of 80000/-), for adjudicating environmental disputes including pollution, impact assessment, safeguards, forest and biodiversity issues.* www.greentribunal.gov.in
- Environmental Advisor (May 2012 – March 2013) with Maharashtra State Road Development Corporation, Mumbai, A Government of Maharashtra company, *Environmentally Sound Infrastructure Development, Environmental Safeguards in Development of Infrastructure projects, Air quality management, Resource Conservation.* www.msrdc.org
- Adjunct Professor, Centre for Environmental Science and Engineering (since July 2012) at Indian Institute of Technology, Bombay, India, *Teaching, Research and Consulting, air quality management, noise pollution control, environmental law and policy*
- Regional Officer and I/C Jt Director, Maharashtra Pollution Control Board, A Statutory Environmental Regulator in the State, (1997-2012), *Enforcement and compliance strategies, environmental Governance, Clean Technology and GHG mitigation advocacy and action plans, Air Quality action plans and Management, Environmental research and monitoring, Public consultation and disclosures.* www.mpcb.gov.in
- Senior Environmental Engineer, Water And Power Consultancy Services (I) Ltd, a Govt of India company, (1991-1997) *EIA studies for Water resources and Power sector, Environmental Monitoring, Design of Pollution control systems, Risk Assessment and Environmental Due Diligence studies for Industries,*
- Assistant professor, Walchand Institute of Technology, Solapur, (1991-1992), *Teaching UG students, research and consultancy, setting up and operating the Environmental laboratory*

INDUSTRIAL ENVIRONMENTAL MANAGEMENT

Cleaner Production, Greening of Supply Chains, Green Procurement, Common environmental infrastructure, compliance and enforcement, public consultations, advocacy and awareness, Integrated Waste Management, industrial Air and waste control systems, Waste Management, Financing

- Design of Pilot level study for Emission trading for industrial air (dust) emission in the states of Maharashtra, Gujarat and Tamil Nadu, a research project of Ministry of Environment and Forest, Govt. of India, Team Leader for Maharashtra, (2010-2012)
- Collection, conveyance, treatment and disposal of industrial waste at Sarigam Industrial Estate, Gujarat. (1992-1994)
- E.I.A. studies for the cement loading and unloading facilities at Mul Dwarka, Panvel and Surat for M/s. Gaj Ambuja Cement Ltd. (1992-1993)- Team Leader at WAPCOS
- Environmental Audit for 5 factories of M/s. Kelvinator of India Ltd. in association with Golder Associates AB. (1995)- Team Leader at WAPCOS
- Environment risk audit for Cyanamid India Limited in association with Sir Alexander Gibbs & Partners, U.K. (1995-1996)- Team Leader at WAPCOS
- Environmental Emissions Studies for M/s. National Fertilizers Ltd., Bhatinda. (1995-1996)- Team Member at WAPCOS
- Water Quality Studies for setting of a Miner Water Bottling Plant at Dev Prayag, U.P- Team Member at WAPCOS
- Monitoring of VOC's in 5 industrial areas of Maharashtra (Chandrapur, Aurangabad, Navi Mumbai, Dombivali and Tarapur) through 2011 and 2012, Team leader from MPCB
- Techno-economic feasibility of a common e-waste management facility in Mumbai region, 2008-2009, Team leader from MPCB
- Assessment of e-waste generation in Mumbai-Pune area with technical assistance from UNEP, 2006-2007, Team leader MPCB
- Evaluation of appropriate air pollution control systems for small and medium capacity induction furnaces at Jalna, 2006, Team Member MPCB

ENVIRONMENTAL MONITORING AND MANAGEMENT

- Ambient air monitoring studies in 22 cities at about 90 locations through various educational institutes, 2005 to 2012, Team leader MPCB.
- al water monitoring with carrying capacity approach in association with NIO Goa. 2007-2009, Team MPCB side
- Compilation of air quality data in Mumbai and application of BENMAP model in Mumbai MPCB-USEPA-NEERI, 2005-2006, Team member MPCB
 - Preparation of Model Environmental Status Reports for Barshi and Thane, 2009-2010, Team

leader MPCB

- Statistical analysis of air and water quality monitoring data in the state with NEERI, 2008-09 and 2011-12, team leader MPCB
- Evaluation of Environmental Status reports of Municipal corporation for sustainability benchmarking in Maharashtra, 2008-2009, Team leader from MPCB
- Mathematical Plume behaviour of coastal waters at Mahul and Vashi creeks and Bandra coast for pollutant plume behaviour using remote sensing and GIS techniques through IIT Mumbai, 2010-12, Team leader MPCB.

ENVIRONMENTAL AND SOCIAL SAFEGUARDS

Environmental and Social (E&S) Impact Assessment (Project/Regional/Sectoral/Strategic levels), E&S Management Frameworks for Financing Institutions, Disaster Management, Impact/Risk Modelling, Environmental Monitoring, Audits (Compliance and Effectiveness) of Lines of Credit

- Presently working as expert member at National Green Tribunal (NGT) which is only the third specialized environmental justice mechanism evolved in the world, and working in the areas of environmental justice, safeguards and sustainable development. The working area covers restoration, restitution, compensation in case of environmental damages and appellate authority in most of India environmental legislations.
- Use of Information technology for improvement in enforcement and compliance levels for environmental regulatory authorities (E-governance project), Team leader 2007-2010, MPCB
- Environmental Impact Assessment studies for Talcher Thermal Power Station Stage-B, Orissa., (1992-93)- Team Member at WAPCOS
- Environmental Impact Assessment studies and Management Plan for Indian Rare Earth Ltd., Kerala.(1992-93)- Team Member at WAPCOS
- Environmental Impact Assessment Studies for Bunakha Hydropower Project, Bhutan. (1996-997)- Team Leader at WAPCOS
- Water Quality monitoring at 250 locations in the state under National Water Quality Monitoring Program, 2005 to 2012, Team Leader MPCB side
- Project Management of the Climate change adaptation studies in Maharashtra conducted by TERI, 2009 to 2012, Coordinator from MPCB
- EIA and Forest Land Diversion Study for Poshir Dam Project near Bombay, Maharashtra. (1996-

1997)- Team Member at WAPCOS

- Environmental Impact Assessment and Coastal studies for the proposed Sea Link project from Versova to Bandra in Mumbai, 2012, Team leader from MSRDC
- Environmental Impact Assessment and coastal zone studies for proposed Peddar road flyover, which is passing through dense residential areas of Mumbai, 2012, Team leader MSRDC
- Environmental Impact Assessment for proposed passenger water transport system along east and west coast of Mumbai, 2012-2013, Team Leader MSRDC
- Preparation and Implementation of Environmental Safeguard and Responsibility Framework for MSRDC operations, 2012-2013, Team leader MSRDC.

TRAINING AND CAPACITY DEVELOPMENT

- Worked as head of training division at MPCB, conducting need assessment and organizing training, workshops for the staff and other stakeholders
- Coordinated a research study on Capacity Building of MPCB through M/S CRISIL (2006-7)
- Organized specialized training on Air quality monitoring, water quality monitoring, environmental data interpretation and analysis, bio-medical waste management, preparation of environmental status report etc for different stakeholders with knowledge partnership with IIT, NEERI, EMS, VNIT etc, Team leader MPCB.
- Development of Curriculum for Sewage Treatment Plant (STP) Operators in Industrial Training Institutes in the state, 2010: Member of expert committee

MAJOR PUBLICATIONS AND BOOKS

- R. Rajappa, Krishna Pal, **Ajay Deshpande** et. al. "Environmental Impact Assessment for Ports and Harbour Projects" Proc. Of 14th Annual meeting of International Association of Impact Assessment at Quebec, Canada (1994).
- Ajay A. Deshpande**, R.N. Sen, "Common Effluent Treatment Plant: A Techno-Economic Solution for Waste Water Treatment for Industrial Estates". Paper presented in 3rd International Conference on appropriate Waste Management Techniques held at Nagpur (February 1995)
- Ajay A. Deshpande**, D.B. Boralkar; "Policy Of Interventions For Air Pollution Control In Mumbai: Cost Benefit And Perspective Of India's 25 Years Of Air Act Implementation" Presented at BAQ-2006, at Indonesia.
- Ajay A. Deshpande**, D.B. Boralkar `Augmentation of Ambient air monitoring network in Maharashtra

State' Presented at BAQ-2006, Indonesia.

- Ajay Deshpande**, Jayashree Deshpande et al, "Ambient Air Quality Status of Aurangabad City", Journal of IAEM, Vol 35(3), 139-142, 2008
- Ajay Deshpande**, Mahesh Pathak et al, "Environmental Enforcement and Compliance at Electroplating industries in Maharashtra", Indo-Italian International Conference at Pune, Dec, 2009
- Air Quality Improvement Action Plan for Pune city: Co-control and Co-benefits at Round table on Co-controls and Co-Benefits at USEPA at Seattle, USA in 2005
- Continuous Air Quality Monitoring Systems and Emission Trading Initiatives at Workshop on Research Frontiers in Sustainability Science: Integrative Regional Initiatives in India, Chan and Brazil at Harvard University Sustainability Science Forum at Harvard, USA on September 19-21st 2011
- Lecture notes on Air and noise Pollution for Urban air pollution for PG Diploma course in Urban Environmental Management in YASHADA Pune.

AWARDS

- First Government of Maharashtra award for Distinguished Environmental engineer (2010)

HONORARY WORK

- Participated in National Level Technical Committee of Central Pollution Control Board, for six cities Source Apportionment studies (2005-2009)
- Participated in National Level Technical Committee of Central Pollution Control Board on air quality Source Apportionment (2005-2012)
- Member of Board of Governors and also, technical Sub-committee of Mumbai Metropolitan Environment Improvement Society of MMRDA, Mumbai (2008-2012)
- Member of Expert Committee for Preparation of regional Development plan of Manori-Uttan area of MMRDA, (2012)
- Member of Board of Studies for Environmental Engineering of Shivaji University,
- Member Convenor of Task Force on Continuous Ambient Air Quality Monitoring Stations of MPCB (2006-2012)
- Member of the National Level Expert Committee of Central Pollution Control Board to Decide the penalties under HW management rules (2012) 0-2012)