

C U R R I C U L U M V I T A E

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Education

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Ph. D.: Indo-French Unit for Water and Waste Technology (IFUWWT),
Department of Civil Engineering
Indian Institute of Technology, Delhi (IIT-Delhi), New Delhi, India

PART OF THE THESIS WORK WAS CARRIED OUT AT ENPC FRANCE.

CGPA=10.0 on the scale of 10.0

Thesis topic: *Performance Assessment and Efficiency Evaluation for the Urban Water Supply Operations of Indian Utilities*

Performance benchmarking is increasingly getting attention in the context of ongoing reforms and restructuring of water utilities, and commercialization of their services in several developing countries. The thesis intended to provide a framework for measuring efficiencies and productivities of water supply operations of such utilities.

The thesis also discussed the sustainability issues that characterize water supply operations in urban areas of developing countries and are typical to the urban Indian water supply sector. These issues were discussed in the context of Millennium Development Goals spelled by the UN.

Furthermore, the thesis delineated the implications of the sustainability issues and the efficiency measures of the water supply utilities from the viewpoint of regulatory and policy design.

Subjects (Course work): Communication Skills, Technology and Human Values, Water supply and treatment, Environmental Pollution and Impact Assessment

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M.Tech. Environmental Engineering
Indian Institute of Technology, Kanpur (IIT-Kanpur), India

CPI=8.8 on the scale of 10.0

Thesis Topic: *Biosorption of U(VI) From Simulated Aqueous Low Level Waste And Immobilization of Loaded Biomass.*

Major subjects: Water and Wastewater Treatment, Air quality and Pollution, Modelling and Optimization, Resource development using Remote Sensing Imagery, Ground Water Hydrology, Sociology of Environment

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B.Tech. Civil Engineering
Indian Institute of Technology, Kanpur (IIT-Kanpur), India

CPI=7.8 on the scale of 10.0

Vocational Experience

2 0 1 1 - C U R R E N T L Y

Professor and Coordinator

PG Program in Environmental Engineering

Department of Civil Engineering,

National Institute of Technology, MANIT-Bhopal, India

Research & Teaching at the post-graduate level. We have a Ph.D. programme, and a Full-Time M.Tech. Programme in Environmental Engineering and Planning. Other tasks include providing professional consultancy in the area of environment.

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Associate Professor,

Environmental Engineering

Department of Civil Engineering,

National Institute of Technology, MANIT-Bhopal, India

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Senior Lecturer,

Environmental Engineering

Department of Civil Engineering,

National Institute of Technology, MANIT-Bhopal, India

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Environment Specialist

Bhoj Wetland Project, Bhopal (On Deputation from MANIT-Bhopal)

(An Externally Aided Project (supported by the Japan Bank Of International Cooperation-JBIC) for Conservation and Management of the twin lakes (International Ramsar Site) and their watershed in the city of Bhopal)

Please Refer for More Details on the Project at the Stockholm site:

http://www.partnerships.stockholm.se/search_view.asp?Id=79/

OR www.epcobpl.org/bwl-main.html/

About the Project: With the help of Yen 9055 M soft loan from JBIC, Ministry of Housing & Environment, M.P. State, India conceived Bhoj Wetland Project in the year 1995 for conservation and management of the catchment of twin lakes (The total project work area: 370 Sq. Km.) on which city of Bhopal is largely located. The twin lakes are declared **international Ramsar sites**.

The project was one of the most prestigious projects being carried out in the state of M.P., has won the prestigious North American Lakes Management Society – **NALMS award 2001**, the Technical Merits Award for successful projects, and has also been nominated and awarded the prestigious **Stockholm Sustainable Cities Award, 2002** under The Caring City category.

The project included 18 multifarious sub-projects with the following objectives:

- Diversion of sewage for treatment through installation of sewage conveyance and treatment system (56 MLD) for the first time in the city.
- Catchment afforestation (more than 1.63 million plants planted) for prevention of erosion in watershed.
- Improvement in drinking water quality.
- Reduction of floods in the city.
- Augmentation of existing traffic system for easing traffic pressures.
- Preventing encroachments in the lake fringe areas.
- Relocation and rehabilitation of commercial activities example cloth washing activities.
- Promotion of eco-tourism.
- Development of fisheries for sustenance of poor.
- Conservation of the wetland and its watershed

Natures of my Duties as Environment Specialist:

- ❖ Project Management and Program coordination
- ❖ Liaisoning with key stakeholder such as the Government of Madhya Pradesh, Public Health Department (PHED), Forest Department, Bhopal Municipal Corporation (BMC), Traffic Police, Airport Authority, Local Unions of Washer-men and NGOs.
- ❖ Planning, documentation and coordinating all activities related to environment
- ❖ Assessing the pre-project and post project impacts of the project activities
- ❖ Progress evaluation (including technical evaluation and other reports) of the project
- ❖ Organized the various awareness and community participation schemes and campaigns being run with the help of 50 odd NGOs and 25 schools and colleges

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Lecturer

Environmental Engineering, National Institute of Technology, MANIT-Bhopal
Research & Teaching at the post-graduate level.

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Senior Project Associate

Environmental Engineering

Indian Institute of Technology, Kanpur (IIT-Kanpur)

Research Work on Project "Fate of Fecal Coliforms in UASB Treatment Plant at Jajmau, Kanpur", sponsored by Ganga Project Directorate. This was then the world's largest UASB plant treating domestic sewage

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Engineer Trainee (Environment)

Tata Consulting Engineers, New Delhi

Design & Consultancy work related to Environmental Systems, Design of water and wastewater treatment plants, Water supply schemes and wastewater recycling methodologies.

Fellowships / Awards received

1988-89	Merit scholarship during B.Tech. at IIT-Kanpur
1988-89	Proficiency prize for the <i>Best B.Tech. Project Award in Civil Engineering at IIT-Kanpur</i> . This project was on design of phased expansion schemes for Wastewater Treatment Plants.
1990-92	Post Graduate Research fellowship at IIT-Kanpur
1998	<i>National Award for guiding the Best M. Tech. thesis in Civil Engineering by Indian Society for Technical Education (ISTE)</i> . The thesis was on Bio-conversion of Domestic organic solid waste to manure by employing Vermiculture technology.
2002-2005	Doctoral Research Fellowship at IIT-Delhi.
2003-04	Visiting Student Award for a duration of 4 months to ENPC, Paris, France, under Cooperation in International Relations Affairs (<i>Direction des Relations Internationales</i>), France.
2015	Commonwealth Academic Fellowship Award for research as a Visiting Fellow in the School of Civil Engineering, Faculty of Engineering at the University of Leeds, UK. Awarded by the Commonwealth Secretariat, UK for a period of 3 months.
2017	Faculty Secondment Award to AIT-Bangkok by the MHRD, India for a period of 16 weeks, August-December, 2017.

Typical Projects Undertaken

1. Scope for recycling of Filter backwash water in water supply treatment plants at Delhi for augmenting water supplies (1989)
2. Evaluation of the scope for supplying treated wastewater to public parks in Delhi for horticulture use (1990)
3. Performance evaluation of a 5 mld UASB Domestic sewage treatment plant at Kanpur (1992)
4. Environmental Impact Assessment of Iron ore mining at Bailadila, Bastar, M.P. (1996)
5. Wastewater characterization and Performance evaluation of effluent treatment plant for an edible oil industry (1997)
6. Bioconversion of domestic organic Solid waste to manure using vermiculture Eco-Technology (1998)
7. Environmental Impact Assessment and Risk Analysis study for a Naphtha fuelled 50 MW Power Plant at Silthara, Raipur (1999)
8. Survey and Analysis of Noise Pollution in selected areas of Bhopal city (1999)
9. Survey and Analysis of Bio-medical waste at Kasturba hospital, Bhopal (2000)
10. Design of low-cost waste stabilization ponds for domestic sewage treatment at Bhopal (2000)

11. A study of Municipal Solid Waste Recycling Market in Bhopal (2005)
12. Design of Central Sewerage system at Army headquarters at Neori, Bhopal (2007-08)
13. Preparation of the city development plan for the Chanderi town in MP under the Ecocity plan of the Government of India (2008)
14. Preparation of city development plan for Ujjain town in MP (2008)
15. Quality Assurance and Quality Control of the Hand Pumps and the School and Community Water Reuse Systems under the Wisewater Management Scheme: A UNICEF Sponsored project (2008)
16. Sindh basin water quality enhancement project (2010)
17. Development of A Contained Cost Effective Technology For Continuous Removal of Fluoride From the Hand-pump Waters (2011)
18. Appropriate Technical Designing of Hand-Pump Platforms for the Rural Areas of MP (2011)
19. Development of Membrane Based Technology For Removal of Fluoride From Drinking Water (2011)
20. A study of water supply sector in UK, Leeds University, UK (2015)
21. “Mapping the Simhasth Kumbh Mela at Ujjain, 2016” sponsored under TEQIP Phase II (2016)
22. Developing tools for enhancing Hand Hygiene for All: Installation and capacity building in the state of Madhya Pradesh, UNICEF (2021-2022)
23. Removal and Recovery of Uranium (VI) From Low Level Wastewaters and Subsequent Disposal of Spent Biomass, Department of Science and Technology, DST (2018-2022)

Training Courses Attended

Overseas Training

1. Short-term research 2015. “A study of water supply sector in UK” for a period of 3 months as a Visiting Fellow in the School of Civil Engineering, Faculty of Engineering at the University of Leeds, UK under the Commonwealth Academic Fellowship Programme, UK.
2. INFRATRAN-2009 Autumn School on Infrastructure Modeling, Regulation and Innovation with Specialization in “Innovation Econometrics: Theory and Applications” Workgroup for Infrastructure Policy (WIP), Berlin University of Technology (Technische Universität Berlin), Berlin, Germany, October 5-10, 2009
3. Training on “French Water sector and the lessons for India” for a duration of 4 months at Ecole Nationale Des Ponts Et Chaussees (ENPC), Paris, France, under the Cooperation in International Relations Affairs (Direction des Relations Internationales), FRANCE, March 31-July 28, 2004.
4. Technical training on “Lake Management, Wastewater Conveyance & Treatment and Solid Waste Management Practices in Japan”, sponsored by JBIC, JAPAN, November 08-23, 2001

Training sponsored by International Agencies

1. Training of Trainers Program on *Climate change Impacts, Vulnerability and Adaptation Planning in Water Sector and Climate Finance*, organized by UNDP, EPCO, and SDC (Swiss Agency for Development and Cooperation), under the project “ Strengthening State Strategies for Climate Actions”, Bhopal, November 19-23, 2018
2. World Youth Forum (WYF), ETH Sustainability, An Educational Initiative of Center for Sustainability, Swiss Federal Institute of Technology, Zürich, Switzerland, “*Regional Issues and Priorities for Sustainable Development: An Asian Perspective*”, Dehradun Institute of Technology, Dehradun, India, April 10 – 16, 2005
3. World Bank Sponsored Continuing Education Programme, “*Environmental Economics*”, Center for Environmental Science and Engineering, IIT-Mumbai, Feb 10-March 07, 2003
4. The Indo-French “*Training Module on Ecotoxicology*”, Indo-French Unit For Water And Waste Technology, IIT-Delhi, 3-5 September, 2002
5. World Bank Technical Assistance Project, India: Environmental Management Capacity Building, Training Program “*Environmental Economics*”, IIM, Calcutta, Sept. 25-29, 2000
6. Indo-UK REC Project: Energy Theme, Lecture-cum-Workshop on “*Energy Efficient Building Design and Computer Application to Design of Built Environment*”, MACT, Bhopal, November 10-22, 1997

Other Training Courses Attended

1. AICTE Course “*Internet of Things IoT*”, 04-08 May 2020, MANIT-Bhopal
2. “*Smart Grid Technologies: Opportunities and Challenges*”, IEEE and Essel Group, MANIT-Bhopal, October 11-12, 2012
3. TEQIP course “*Evolutionary Computing & Simulation Techniques in Engineering Applications*”, 02-06 July, 2012, Department of Electrical Engineering, MANIT-Bhopal.
4. Short Term Training Programme “*Renewable Energy & Energy Security: Trends and Challenges*”, Department of Electrical Engineering, MANIT-Bhopal, 16-20 January, 2012.
5. All India Council of Technical Education (AICTE) course “*Solar & Wind Energy :Theory & Practice*”, Dept. of Mechanical Engineering, MANIT-Bhopal, 27 Feb-12 March, 2009
6. All India Council of Technical Education (AICTE) course “*Informed design of environmental engineering systems-looking beyond design criteria*”, Department of Civil Engineering, IIT-Chennai, June 04-09, 2007
7. All India Council of Technical Education (AICTE) course “*Concepts of Renewable Energy Sources*”, Centre for Energy Studies, IIT-Delhi, 13-27 June, 2005
8. “*Unix Concepts and Applications*”, IIT-Delhi, 9-13 December, 2002
9. “*Air Quality Monitoring and Management*”, IIT-Kanpur, June 5-9, 1999
10. “*Energy Conversion and Management*”, IIT-Delhi, May 11-22,1998
11. Central Pollution Control Board Training course “*Noise and Vibration Control Technology*”, MACT, Bhopal, July 8-12,1996
12. “*Manpower planning and Human Resources Development*”, IIT-Kanpur, Dec. 10-23, 1995.
13. All India Council Of Technical Education (AICTE) course “*Use of Management Techniques in Engineering*”, MITS, Gwalior, July 17-28, 1995
14. All India Council of Technical Education (AICTE) course “*Application of Remote Sensing and Geographical Information System in decentralized planning and Management of Natural resources*”, GEC, Bhopal, May16-29,1995

Ph.D. Thesis Guided/Under Progress

1. Sudhir Nigam (2009). Computational Forecasting of Carbon Monoxide Emissions from an Urban Area
2. Sanjay S Phadnis (2011). Benchmarking for Water Users Associations to Enhance Performance of a Major Irrigation and Drainage Project
3. Amit Vishwakarma (2012). Efficiency evaluation of Urban Water Supply & Sanitation services in the State of Madhya Pradesh, India
4. Sai Amulya Nyathikala (2021) Development of Indian Policy Framework on lines of water supply regulation in UK based on study of performances and reforms in Indian urban water supplies
5. Nagendra Prasad Singh (2021). Redefining WHO criteria based contamination risk scores for sanitary inspection of tubewell with handpump
6. Sabyasachi S Roy (2021). Benchmarking of Services of Indian Railways – Some Policy Perspectives
7. Shefali Pathak Dubey (2022) A Framework For Assessment of Flood Risk in a Part of Narmada Basin In Madhya Pradesh, India
8. Aakanksha Rawat (Ongoing) Technical and Financial Efficiency Evaluation for Water User Associations of Rohini Canal System, Uttar Pradesh, India.

M. Tech. Thesis Guided

1. Sandeep Satija (1996), Criteria Evolution for Industrial Siting - The Case of an oil Refinery.
2. Anadi Shrivastava (1996), Environmental Impact Assessment of Iron ore mining at Bailadila, Bastar, M.P.
3. Chandrakant Kumar (1997), Prediction of water quality for Betwa river and Banganga Nallah using Statistical Techniques.
4. R.P.Mishra (1997), A comparative study of defluoridation Techniques at Shivpuri, Madhya Pradesh.
5. B.K.Chugh (1997), An Experimental study of Oligodynamic properties of copper.
6. Manish Kumar (1997), Environmental considerations for a waterbody in urban area - A case study of lower lake, Bhopal.
7. Deep Agarwal (1997), Studies on migration of Heavy Metals due to uncontrolled land filling of Flyash.
8. Udeep Kumar Singhal (1997), Feasibility analysis of solidification / stabilization technology in treating electroplating waste.
9. Sheelu Mathew (1997), Waste water characterization and Performance evaluation of effluent treatment plant for an edible oil industry.
10. Manohar Patil (1998), Bioconversion of Domestic Organic Solid Waste to manure using vermiculture Eco-Technology.
11. Chandra Bhoosan (1998), Environmental Impact Assessment study for a Naptha/Gas Fueled proposed 330 MW Power Plant using Network Methodology.

12. Sanjeev Kumar (1998), Forecasting of Air Pollutants in Bhopal City using Statistical Techniques.
13. Rajesh Kumar Tiwari (1999), Software for Predicting Dispersion Profiles for Emissions from a single or multiple steady point sources under Homogeneous Atmosphere.
14. Garima Jain (1999), Computer Aided Dispersion Modeling of Air Pollutants under Non-stationary and Non homogeneous Atmosphere.
15. Keshav Kumar Goswami (1999), Environmental Impact Assessment and Risk Analysis study for a Naptha fuelled 50 MW Power Plant at Silthara , Raipur.
16. Adesh Shrivastava (1999), Survey and Analysis of Noise Pollution in selected areas of Bhopal city.
17. Renu Bhadrassen (2000), Survey and Analysis of Bio-medical waste at Kasturba hospital, Bhopal.
18. Shalini Kulshrestha (2000), Performance Evaluation study for a 5 MLD UASB Domestic sewage treatment plant at Jazmau, Kanpur.
19. Kusum Deelwal (2003), Computerized Evaluation of Leachate Collection System In Hazardous Waste Landfill Site
20. Ravikant Sharma (2006), A study on municipal solid waste recycling activities & allied waste trade economics at Bhopal, M.P.
21. Megha Chourey (2006), Network Approach to Evaluation of Environmental Impacts for the Indira Sagar Multipurpose Dam, M.P.
22. Devyani Sharad Billore (2006), EIA Study For The Tawa Irrigation Project, Madhya Pradesh, Using Evaluation Matrices
23. Nitin Jain (2006), Performance Evaluation Study For Addressal of Excessive Iron And Manganese At Kolar Water Treatment Plant, Bhopal
24. Rajika Mishra (2007), An EIA study for a National Highway Road Project in the state of Madhya Pradesh
25. Pankaj Kumar Singh (2007) Evaluating Thermal Performance of Building Envelope Using Optimization Techniques.
26. Ankit Jain (2009) GIS Based Planning and Route Optimization for Municipal Solid Waste Collection at Bhopal City.
27. Jyoti Shankar Prasad (2010) An Investigation into the Informal Trade of Municipal Solid Waste at Bhopal
28. Mukesh Choudhary (2011) Development of Technology for reduction of Joints in the Hand-Pump Platforms
29. Shruti Mangal (2012). Meat Eating and Global Warming: Linkages, Estimations & Policy Options- Case of Bhopal City, India
30. Vaibhav Kumar (2014). EIA Study for a National Highway Project: Policy Issues
31. Aakansha Dantre (2014). Estimation of Emission factors for Indian Scenario and evaluation of Global warming from Livestock Industry and Transportation Sector.
32. Sai Amulya (2015) A Framework for Measurement of Efficiencies and Productivities for Urban Water Supply Regulation in India
33. Astha Kumari (2015) Tariff Models for Pricing Rural Water Supply Services: Case of a group of 20 Villages in Betul District, MP, India
34. Keerthi Mohan (2015) Benchmarking of Water, Wastewater and Solid Waste Management Services for some Indian Municipalities.
35. Aparna Sharma (2015) Fabrication of a Dual-Chambered Microbial Fuel Cell for Electricity Generation from Municipal Solid Waste Leachate.

36. Madhuri Raghav (2016) Environmental Impact Assessment Study for a Coal Based 2320 MW Chhabra Thermal Power Project Using Matrix Methodology
37. Neha Rajput (2017) Economics of Group Rural Water Supplies: A case Study of Group of 20 Villages in Sehore District, MP, India
38. Charulata Jain (2018) Performance Evaluation of Municipal Water Supply Sector across Various Indian States
39. Samay Jain (2018) Efficiency Evaluation of Water Supply Service for Municipalities of Gujarat
40. Ayush Gupta (2019) Economic Study Of Waste Recycle Market at Bhopal
41. Hansraj Choudhary (2019) EIA Study For Widening of a National Highway Project in Hilly Region of Meghalaya Using Evaluation Matrices
42. Anupam Kushwaha (2019) Environmental Impact Assessment of Delhi-Meerut Expressway by Network Method
43. Niteesh Singh (2019) Adsorption of Fluoride From Aqueous Solution by Using Water Hyacinth Biomass
44. Latika Ahirwar (2019) Efficiency Measurement of Urban Water Supply Utilities in Maharashtra, India
45. Neha Goswami (2019) A Critical Analysis of WHO Safety Guidelines for Tubewell with Hand-Pump
46. Vikas Kumar Meena (2020) Municipal Water supply efficiencies in India-A comparative study of Chhattisgarh, Gujarat Maharashtra, and Telangana States
47. Akash Jayswal (2020) Uranium Removal From Low Level Radioactive Wastewater Using a Biosorbent
48. Saurabh Jain (2020) Fluoride Removal from Aqueous Solutions Using Adsorption onto the Silver Nanoparticles Synthesized from Wheat Husk Extract
49. Robin Singh (2020) Plastic Waste Usage in Road Construction-A Case Study of NH-211 in Maharashtra, India
50. Urvashi Srivastava (2020) Development of Flood Vulnerability and Flood Risk Indices for Narmada River Basin in Madhya Pradesh
51. Adarsh Sahu (2021) Data Envelopment Analysis for Estimation of Flood Vulnerabilities in River Narmada
52. Aman Khare (2021) DEA Based Efficiency Evaluation of Minor Irrigation Scheme for Rohini Dam Lalitpur
53. Mohammad Shakib (2021) Comparative Efficiency Evaluation For Urban Water Supply Services in Four Indian States
54. Yuvraj Goyal (2022) Real-Time Emissions of Gaseous Pollutants from Vehicles under Heterogeneous Traffic Conditions

Major Consultancy Work Undertaken

Sponsoring Agency	Title of project	Amount of grant	Period	Co-investigators (if any)
MCD, Delhi to Tata Consulting Engineers, Delhi	Scope for recycling of Filter backwash water in water supply treatment plants at Delhi for augmenting water supplies	10 lakhs	1989-90	Team-work
NDMC, Delhi to Tata Consulting Engineers, Delhi	Evaluation of the scope for supplying treated wastewater to public parks in Delhi for horticulture	14 lakhs	1989-90	Team-work
JBIC, Japan to Bhoj Wetland Project	Design of low-cost waste stabilization ponds for domestic sewage treatment at Bhopal	8 lakhs	2000	One
Indian Army	Design of Central Sewerage system at Army headquarters at Neori, Bhopal	5 Lakhs	2007-08	One
INTACH	Preparation of the city development plan for the Chanderi town in MP under the Ecocity plan of the Government of India	14 lakhs	2008	None
BSNL	Assessment of damage caused in the Central Telephone Exchange Bhopal	13236	Dec 2009-Feb 2010	None
SMEC, Gurgaon	Sindh basin water quality enhancement project	2.5 lakhs	2010	None
PHE Department, MP	Development of A Contained Cost Effective Technology For Continuous Removal of Fluoride From the Hand-pump Waters	10.37 lakhs	2011	None
PHE Department, MP	Appropriate Technical Designing of Hand-Pump Platforms for the Rural Areas of M.P.	10.48 lakhs	2011	None
M/s. Flovel Energy Pvt. Ltd., Faridabad	Technical Opinion on Balsio Hydro Electric Project (2 x 2500 kW + 20% COL)	1.5 Lakhs	2015	Dr Tripta Thakur & Dr Shailendra Jain
Sardar Sarovar Project-Fake Sale-deed & Rehabilitation Sites Enquiry Commission, Indore (MP).	Evaluation of quality of Rehabilitation sites of Sardar Sarovar Project (SSP), M P *	1.61 Crore	2012 -2015	None
United Nations Children Fund (UNICEF)	Developing tools for enhancing Hand Hygiene for All: Installation and capacity building in the state of Madhya Pradesh	19.21 lakhs	2021-Ongoing	Dr Priyanka Paliwal and Dr Charu Parashar
MP State Tourism Development Corporation	Review of Preliminary Design of Statue of Oneness Project at Omkareshwar, MP	25 Lakhs	2022-Ongoing	Dr Priyanka Paliwal

*This is the largest ever consultancy project at MANIT-Bhopal.

Research Projects Undertaken

Organization	Title of project	Amount of grant	Period
United Nations Children Fund (UNICEF)	Quality Assurance and Quality Control of the Hand Pumps and the School and Community Water Reuse Systems under the Wastewater Management Scheme: A UNICEF Sponsored project	11.56 lakhs	2007-08
TEQIP	An Exploration into the Removal of Uranium (VI) From Low Level Wastewater using low-cost Media and Subsequent Immobilization of Loaded Biomass for Disposal	8 lakhs	2010
R&D Grants in Aid Scheme, MANIT-Bhopal	Development of Membrane Based Technology For Removal of Fluoride From Drinking Water	13.95 lakhs	2011
TEQIP Phase II	Mapping the Simhasth Kumbh Mela at Ujjain, 2016 sponsored under TEQIP II	5 lakhs	2016
DST, GoI	Removal and Recovery of Uranium (VI) From Low Level Wastewaters and Subsequent Disposal of Spent Biomass	23.30 lakhs	2018-Ongoing

Workshops /Training programs / Summer/ Winter Schools Organized

1. Central Pollution Control Board Training course "*Noise and Vibration Control Technology*", MACT, Bhopal, July 8-12,1996
2. One day Workshop on "*Ozone Day*" held at MACT-Bhopal, 16 September 1998
3. Workshop-cum-Seminar on "*Quantification of Environmental impacts of large power projects*", sponsored by the Central Board of Irrigation and Power (CBIP), New Delhi, held at MACT, Bhopal, 25-26 February,1999
4. 3-day dissemination participatory workshop-cum-lake festival "*People's participation and Environmental awareness in Conservation of Lakes*", Bhoj Wetland Project, 22-25 December, 2001
5. One day Workshop on *Water and Sanitation in the context of Millennium Development Goals* sponsored jointly by UNICEF Bhopal and MANIT-Bhopal, September 20, 2007.
6. One Day Workshop on *Disaster Preparedness* held at MANIT-Bhopal , sponsored jointly by SARITSA Foundation and MANIT-Bhopal , September 03, 2009
7. Five day workshop on *Disaster Preparedness and Management* sponsored jointly by the Disaster Management Institute, Bhopal, SARITSA Foundation and MANIT-Bhopal held on July 26-30, 2010.
8. Two day workshop on *Workshop on Disaster Risk Reduction and Climate Change Adaptation* sponsored jointly by MANIT-Bhopal and SARITSA Foundation, MANIT-Bhopal, 08-09 August 2011
9. Short Term Training Programme on Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, MANIT-Bhopal, 23-28 Feb, 2012
10. UNICEF sponsored 'Smart Handwash hackathon' held on Global handwash day 2022, 15th October 2021 at MANIT-Bhopal
11. UNICEF and MANIT-Bhopal. Dissemination workshop 'Developing tools for enhancing Hand Hygiene for All: Installation and capacity building in the state of Madhya Pradesh, 24th May 2022 held at MANIT-Bhopal

Details of Review of Journals

A reviewer for several journals ex :

- International Journal Resources, Conservation & Recycling, Elsevier
- Separation science and Technology, Taylor and Francis
- International Journal Benchmarking, Emerald, USA
- Journal of Public Health and Epidemiology, Academic Journals
- Journal of Environmental Management, Elsevier
- African Journal of Environmental Science and Technology, Academic Journals
- Journal of Environmental Chemistry and Ecotoxicology, Academic Journals
- International Research Journal of Management and Business Studies, International Research Journals
- International Research Journal of Agricultural Science (IRJAS), International Research Journals
- Transportation Research Record, Sage
- Environmental Engineering and Management Journal, Gheorghe Asachi Technical University from Iasi, Romania
- Water Science and Technology, International Water Association, IWA,UK
- Water Research, Elsevier (now with IWA, UK)
- Biotechnology and Bioprocess Engineering, Springer

Have also been a reviewer to papers intended for several International Conferences such as

- 7th IWA Biennial World Water Congress in Montreal 2010
- 3rd International Workshop on Supply Chain Management & Information Systems (SCMIS 2005).
- Writer's Workshop for India Infrastructure Report 2007, IIT-Kanpur

ERC Remote Referees- A reviewer to assist the European Research Council (ERC) in the peer review evaluation of frontier research proposals submitted to the European Commission for financial assistance – 2019-20

Books/ Book Chapters Published

1. *Efficiency Evaluation of Urban Water Supply & Sanitation Services: The Case of an Indian State* by Dr Amit Vishwakarma and Dr Mukul Kulshrestha (Apr 12, 2012) Publisher: LAP LAMBERT Academic Publishing, Germany (April 12, 2012) ISBN-10: 3848491109 , ISBN-13: 978-3848491100
2. *A Benchmarking Framework for Evaluating Efficiencies of Major Irrigation Projects: Role of Water Users Associations*, Dr Sanjay Sitaram Phadnis and Dr Mukul Kulshrestha, IndiaCore Publishing, 2012, New Delhi, India
3. *Global Warming: Linkages With Meat Eating: Case of Bhopal City, India*, Shruti Mangal and Dr Mukul Kulshrestha, LAP Lambert Academic Publishing, Germany, 2012, ISBN- 978-3-659-21025-9
4. Vyas M., Kulshrestha S., Kulshrestha M. (2020) Manipulating Global Food Preferences for Promoting Sustainability and Reducing Disaster Risk. In: Pal I., von Meding J., Shrestha S., Ahmed I., Gajendran T. (eds) *An Interdisciplinary Approach for Disaster Resilience and Sustainability. MRDRRE 2017. Disaster Risk Reduction (Methods, Approaches and Practices)*. Springer, Singapore, Print ISBN 978-981-32-9526-1; Online ISBN 978-981-32-9527-8
5. Sai Amulya, Mukul Kulshrestha and Shaivi Kulshrestha (2020) Need for Inclusion of Efficiency Benchmarking Framework as a Part of Disaster Education: Case of Public Service Infrastructure Utilities. In: Pal I., von Meding J., Shrestha S., Ahmed I., Gajendran T. (eds) *An Interdisciplinary Approach for Disaster Resilience and Sustainability. MRDRRE 2017. Disaster Risk Reduction (Methods, Approaches and Practices)*. Springer, Singapore, Print ISBN 978-981-32-9526-1; Online ISBN 978-981-32-9527-8
6. Monika Vyas and Mukul Kulshrestha. 2019. *Exploring Food-Water Nexus In A Hungry World Committed To SDGs*. ISBN:978-613-8-91090-9, Scholars' Press, Germany

Research Output

A: Publications in International Journals

1. Mukul Kulshrestha, Abhishek Srivastava, T Ramaseshan and C. Vencobachar (1990), "Upgrading of Kanpur Wastewater Treatment Plant by phased expansion", *International Jr. Water Science and Technology*, 22, No. 718, 303, International Water Association, IWA, UK
2. Mudit Kulshreshtha, Barnali Nag and Mukul Kulshrestha. (2001). "A Multivariate Cointegrating Vector Auto Regressive Model of Freight Transport Demand: Evidence from Indian Railways" *Transportation Research: Part A (Policy and Practice)* Vol. 35A (1), 29-46, Elsevier
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48. Monika Vyas and Mukul Kulshrestha (2022) Removal of Radioactive Material (Uranium (VI)) From Low Level Wastewater and Subsequent Disposal of Loaded Biomass, Second International Conference on Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences [RAMSTES-2022], 9-11 November 2022, Manipal University, Jaipur, India
49. Monika Vyas and Mukul Kulshrestha (2022) Immobilization of radioactive waste material in Concrete matrix – A study of leachability aspects, Second International Conference on Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences [RAMSTES-2022], 9-11 November 2022, Manipal University, Jaipur, India
50. Jal Tattva and its significance, SuJalam International Conference on Panch-Mahabhoot, Sumangalam, DeenDayal Research Institute, Ujjain, 27-29 Dec 2022

C: Selected Papers presented in National Conferences

1. Mukul Kulshrestha & M. Kulshreshtha (1994), "Development and Environmental Education", Proc National Seminar on Development and the Environment, BIS & BHEL, Bhopal.
2. Mukul Kulshrestha & MVS Iyer (1995), "Inclusion of Environmental impacts in energy curricula", Proc. workshop on Curriculum development in Energy Technology, Indo-UK REC project, MACT, Bhopal.
3. Tripta Thakur & Mukul Kulshrestha (1995), "Environmental Aspects of Nuclear Power Generation", Proc. National Seminar on Environment Friendly Electric Power Generation", XI National Convention of Electrical Engineers, Roorkee.
4. Mukul Kulshrestha & K.R.Pardasani (1995), "Environment and the Technical Education in the emerging economic scenario", Proc. seminar on quality assurance in Technical Education - challenges of the new economic policy, SATI, Vidisha.
5. Mukul Kulshrestha (1996), "Principles and Techniques of Noise Control", Proc. training course on Noise and Vibration Control Technology, Central Pollution Control Board & MACT, Bhopal.
6. Mukul Kulshrestha et al (1996), "Impact of mining activity at Bailadila, M.P.", Proc. National Seminar on Pollution Control for Sustainable Development & Human Health & XII National Convention of Environmental Engineers, Jabalpur, Institution of Engineers, Jabalpur.
7. Mukul Kulshrestha & MVS Iyer (1997), "UASB Process : Advanced Treatment Option for Industrial Effluents", Proc. National Symposium on Microbial Technologies for Environmental Management and resource recovery, MOEF, UGC, CSIR & DST, New Delhi.
8. Mukul Kulshrestha and B.K.Chug (1997), "Action of Metallic Copper on drinking water - A low cost disinfection methodology for household use and rural needs", proc. XIth National Congress & Exhibition on Environment, Theme Sustainable Development - Agenda 21, National Foundation of Indian Engineers, Winroch International & MOEF, New Delhi.
9. M. Kulshrestha (1998), "Environmental and Socio-Economic Aspects of Mining Activity: A case study", Proc. National seminar on Environmental aspects of Engineering Practices, BIET, Jhansi.
10. Mukul Kulshrestha and Chandrabhooshan (1998), "Socio-Economic and Environmental impacts of power projects: Their evaluation and quantification", Proc. workshop-cum-

seminar on Open trading of electric power, Central Board of Irrigation & Power and MACT, Bhopal.

11. Mukul Kulshrestha and Anadi Srivastava (1998), "Environmental impacts of Bailadila Iron ore mines at Bastar, M.P." Proc. National conf. on Pollution prevention and control, REC, Hamirpur.
12. Mukul Kulshrestha and MVS Iyer (1999), "Atmospheric component of an EIA for a Coal fired Power Station.", Proc. workshop-cum- seminar on Quantification of Environmental impacts of large power projects, Central Board of Irrigation and Power & MACT, Bhopal.
13. Mukul Kulshrestha (2006) "Providing Safe Drinking Water For Household Needs In Rural And Remote Areas By Storage In Copper Vessels For Achieving Terminal Supplementary Disinfection", Proc. The 4th Indian Environment Congress, 28-29th April 2006, Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kollam, Kerala
14. Sudhir Nigam, Mukul Kulshrestha and Sushil Mittal (2007) "Statistical Evaluation of temporal predictions of Urban Air Pollutants", National Seminar on Statistics and Its Applications, (NSSA-07), January 19 – 20, 2007, SLITE, Longowal, Punjab
15. Sudhir Nigam, Mukul Kulshrestha and Sushil Mittal (2007) "Development of Air Quality Dispersion Models for Land Water Interactive Environment" Proc. 12th Annual Conference GAMS and All India Symposium on Computational Biology, April, 2007, MANIT, Bhopal.
16. Aparna Sharma and Mukul Kulshrestha (2014) MSW Leachate Concerns on Water Quality, Proc. National Seminar on Water Quality: A major Challenge, 11 October 2014, Organized by the Indian Water Works Association, Bhopal Centre, Bhopal
17. Amit Vishwakarma, Nyathikala Sai Amulya and Mukul Kulshrestha (2014) A theoretical Framework to integrate Water Quality parameters in Benchmarking Analysis, Proc. National Seminar on Water Quality: A major Challenge, 11 October 2014, Organized by the Indian Water Works Association, Bhopal Centre, Bhopal
18. Keerthi Mohan and Mukul Kulshrestha (2014) Water Pollution in India: Some Policy Perspectives, Proc. National Seminar on Water Quality: A major Challenge, 11 October 2014, Organized by the Indian Water Works Association, Bhopal Centre, Bhopal
19. Monika Vyas and Mukul Kulshrestha (2014) Artificial Neural Networks Based Framework for Prediction and Forecasting of Water Quality Variables, Proc. National Seminar on Water Quality: A major Challenge, 11 October 2014, Organized by the Indian Water Works Association, Bhopal Centre, Bhopal
20. Aparna Sharma and Mukul Kulshrestha (2017) Electricity Generation From MSW Leachate Using Microbial Fuel Cell, Proc SSWM-17, National Conference on Sustainable Solid Waste Management, 15th November, 2017, Organized by the Department of Civil Engineering, Amity School of Engineering & Technology, Amity University Haryana
21. Mukul Kulshrestha.2022. Agni evam Paryavaran – The Fire element and Environment, National Conclave on Energy for Life- Developing Sustainable Life on the basis of five elements, October 14, 2022, Vijnana Bharti and Ministry of Power Government of India, MPCST Bhopal

Typical Expert Lectures Delivered

1. *Is Incineration The Final Answer?: Alternatives to Waste Incineration*, A lecture delivered at Centre for Research and Industrial Staff Performance, 20.05.2006, CRISP, Bhopal
2. *Solid Waste Management Techniques*, Lecture delivered to trainee sub-engineers, PHED, MP, 26.11.2006, All India Institute of Local Self Government, Bhopal

3. *Ecosystems and Sustainable Development*, A series of lectures delivered from January-April, 2007 at the Indian Institute of Information Technology and Management, IIITM-Gwalior
4. *Sustainability Issues in the Indian Urban Water supply sector*, November 27, 2007, BIET Jhansi
5. *Global Warming and Environmental Ethics*, on 15 March, 2011, in the Short term Training Programme: Prospects of Energy Conservation and Management, 14-18 March 2011, Dr Bhim Rao Ambedkar Polytechnic College Gwalior
6. *The World Environment Day*, 2011, June 05, 2011, Patel Institute of Technology, Bhopal
7. *Global Warming: Associated Risk Mitigation & The Role of Individuals*, Lecture delivered on 9th August 2011, in the two day *Workshop on Disaster Risk Reduction and Climate Change Adaptation*, 8-9 August, 2011, jointly sponsored by MANIT-Bhopal and SARITSA Foundation, MANIT-Bhopal.
8. *Introduction to EIA- Sustainable Development, Role and Significance of EIA, Basics of Baseline Data*, 23rd February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
9. *Scoping the Project Impacts: Case of Green Revolution*, 24th February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
10. *Basic Concepts of EIA-I (Basic Concepts/Methodologies)*, 24th February, 2012, 23rd February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
11. *Basic Concepts of EIA-II (Methodologies/Case Studies)*, 25th February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
12. *Map data collection lab in the field using GPS instrument*, 25th February, 2012, Lab session at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
13. *Government of India Procedures and Rules with regard to Environmental Clearances of Industrial and Infrastructure Projects*, 27th February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
14. *Environmental Consequences of Our Lifestyles: Case of Global Warming & Role of Ethics*, 28th February, 2012, Lecture delivered at the Short-Term Training Programme: Environmental Impact Assessment: Cases, Issues, and Applications of Remote Sensing, GPS & GIS Techniques, 23rd - 28th February, 2012, MANIT-Bhopal
15. *Global Warming: The challenges posed*, 18th January 2012, lecture delivered at the Electrical Engineering Department, MANIT-Bhopal for the short term training programme on Renewable Energy and Energy Security: Trends and Challenges, 16-20 January 2012, MANIT-Bhopal,
16. *Sustainability Issues In the Indian Urban Water Supply Sector*, 22 March 2012 Hotel Palash Bhopal, Annual Function and Meet on the Occasion of the World Water Day 2012, Indian Water Works Association (IWWA)

17. *Environmental Ethics*, An invited lecture delivered to M. Planning students of School of Planning and Architecture, 12th April 2012, SPA-Bhopal
18. *The Frontiers of Environmental Engineering and Sciences: Challenges for Humanity and the emerging Ethics*, 14.09.2012, in Two day Workshop on Recent Trends In Energy And Environment, 14-15 September, 2012, Radharaman Institute of Technology and Science, Bhopal.
19. *Energy and Environment Linkages*, 30.11.2012, in Two day National Workshop on Technical Innovations and Reforms in Energy Sector, 30 Nov-1 Dec, 2012, Department of Electrical Engineering, MANIT-Bhopal.
20. *Systemic Issues In The Indian Urban Water Supply Services*, A joint water@leeds / Institute for Public Health and Environmental Engineering (IPHEE) Seminar, 11th March, 2015, School of Civil Engineering, University of Leeds, UK
21. *Life: Sacred or Profane -A Matter of Value System?* International Seminar on *Value-Based Life*, Department/Directorate of Culture, Government of Madhya Pradesh State, 17-19 April, 2015, MP Legislative Assembly, Bhopal
22. *Seven Billion Dreams, One Planet, Consume with Care*, 05 June 2015, Hotel Plash, Bhopal, Annual Function and Meet on the Occasion of the World Environment Day 2015, Indian Water Works Association (IWWA)
23. *“Improved Water Use Efficiency in Irrigation: Role of Water User Associations”*, 2015 World Water Week - Water for Development, August 23-28, 2015, Stockholm International Water Institute, SIWI, Stockholm, Sweden
24. *“Is Meat – Eating a Matter of Personal Choice? A Scientific Analysis”*, October 29, 2015, India Inspires, Indore , India. Available Online-https://www.youtube.com/watch?v=w-VO_zZBBt8
25. *“The World Water Day-2016 - Emerging Sustainability Issues and challenges In The Water Sector”*, held on 20 March, 2016, at Institution of Engineers, Bhopal, India
26. *“ The Conflicting Issue of Sustainable Development & Fulfillment of Seven Billion Dreams on the Planet Earth - Some Thoughts”*, Invited plenary lecture in 6th International Conference on “Technology, innovation, and management for sustainable development” 11th to 13th February 2016, ITM University, Gwalior, M.P. India
27. *“ The Indian Urban Water Supplies Sustainability Issues”* 18 March, 2016, EPCO, Bhopal in the Training programme on " Water Conservation and Management" for college teachers during 14 to 19 March 2016, Environmental Planning & Coordination Organisation (EPCO), Bhopal
28. *“ The Challenges of Environment to Sustainable Fulfillment of 7.3 Billion Dreams - A Critique”*, Technocrats Institute of Technology-Advance, Department of Civil Engineering, TIT-Bhopal, September 10, 2016, Keynote Address delivered in International Conference on Recent Advancements & Innovations in Civil Engineering (RAICE’16) , 09-10 September, 2016, TIT-Bhopal.
29. *“Productivity Growth, Technical Progress and Efficiencies in the Indian Urban Water Supply Sector”*, An open lecture delivered at the Department of Civil Engineering , MANIT-Bhopal , July 14, 2017, MANIT-Bhopal
30. *“Coagulation & Flocculation”* A lecture for PHED Engineers under the Induction-cum-foundation training Workshop for new AEs Inductees, Administrative Academy, Bhopal, 12 August, 2017.
31. *“Wetland Conservation”* , A lecture delivered at AIT-Bangkok, October 04, 2018
32. *“Manipulating Food Preferences for Promoting Sustainability and Reducing Disaster Risk”*, A Lecture delivered at the *International Expert Forum: Mainstreaming Resilience and*

Disaster Risk Reduction in Education, 01Dec, 2017, Asian Institute of Technology, AIT-Bangkok, Thailand

33. “Efficiency benchmarking framework as a part of Disaster Education: Case of public service infrastructure utilities”, A lecture delivered at the *International Expert Forum: Mainstreaming Resilience and Disaster Risk Reduction in Education*, 02 Dec, 2017, Asian Institute of Technology, AIT-Bangkok, Thailand
34. *Centre for Indic Studies lecture: How Cows Hold the Key to the Survival of Planet - 1*, Available on YouTube: <https://www.youtube.com/watch?v=5WDPVisB-8g&t=1338s>, Indic Talk , Indus University, India, 23rd February 2018
35. *Centre for Indic Studies lecture: How Cows Hold the Key to the Survival of Planet - 2*, Available on YouTube: https://www.youtube.com/watch?v=zMB_CGeht8Q&t=803s, Indic Talk , Indus University, India, 23rd February 2018
36. *Centre for Indic Studies lecture: Cow Slaughter in India: Policy Issues and Unscientific Discourses*, Available on YouTube: <https://www.youtube.com/watch?v=K-684QWtxxA&t=3419s>, Indic Talk , Indus University, India, 23rd February 2018
37. A Q&A Session with Puri Shankaracharya on Cow protection “पर्यावरण इंजीनियर , डॉ मुकूल कुलश्रेष्ठ के साथ वार्तालाप”, Available online https://www.youtube.com/watch?v=RqIxRKt8_2Q, 10 May, 2018
38. **विज्ञान संगोष्ठी**, Shankaracharya Puri - Swami Shri Nishchalanand Saraswati Ji Maharaj of Govardhan Math, *Roots of Environmental Catastrophe which has angered and tormented even the Sun, Moon, and earth, and the Infallible way to eradicate it.*, 18 June 2020.
39. A talk on the World Environment Day, June 05, 2020 organized jointly by Hindu Jagran Mancha and BJP in collaboration with NIT (MNIT)- Jaipur.
40. **गंगोत्री से गंगासागर तक**, A talk organized by Hindu Jagran Manch, June 13, 2020
41. “Nature from the Viewpoint of Religion and Dharma” Sangam Talks (Earlier Srijan Talks) July 26, 2020 Available on Youtube, <https://www.youtube.com/watch?v=YhVI9HwZdag>
42. “Sustainability Issues in the Indian urban water sector”, 26.08.2020, In 5 day Training Course Advanced Techniques for Smart Design and Execution of water supply systems’, ATSDEWS-2020, 24-28 August 2020, MANIT-Bhopal
43. ‘Sustainability Issues in the Indian water sector’, 23.09.2020. UGC Human Resource Development Centre Refresher Course “Recent trends in Environment and Development”, 14-28 Sept 2020, Dr Babasaheb Ambedkar Marathwada University, Aurngabad, Maharashtra
44. “Religion and Dharma” Talk delivered to the RSS- Professor Study Group , 15 October 2020
45. ‘History of Education in India, and relevance of Bhagvad Gita” Lecture delivered to ISKCON, 8 July 2021
46. ‘Significance of Handwashing’ , a lecture delivered in ‘Handwash hackathon’ held on Global handwash day 2022, 15th October 2021 at MANIT-Bhopal
47. “Enhancing Hand Hygiene in Schools and Hospitals: Sharing our experiences’ – Lecture delivered in UNICEF sponsored Dissemination workshop ‘Developing tools for enhancing Hand Hygiene for All: Installation and capacity building in the state of Madhya Pradesh, 24th May 2022 held at MANIT-Bhopal
48. ‘Power sector and the associated Environmental impacts’, Lecture delivered at National Power Training Institute NPTI, Faridabad, World Environment Day, June 5, 2022
49. Agni Evam Paryavaran – The Fire element and Environment, National Conclave on Energy for Life- Developing Sustainable Life on the basis of five elements, October 14, 2022, Vijnana Bharti and Ministry of Power Government of India, MPCST Bhopal

50. One day conclave - Integrated Water Policy for the State of Madhya Pradesh , Government of Madhya Pradesh, Madhya Pradesh State Policy and Planning Commission , 30 Sept,2022, Vallabh Bhavan (Mantralaya), Bhopal
51. Jal Tattva and its significance , SuJalam International Conference on Panch-Mahabhoot, Sumangalam , Deendayal Research Institute, Ujjain, 27-29 Dec 2022

Administrative Duties/Activities

- Member, NAAC Peer Team
- Head of the Department of Management Studies, MANIT-Bhopal , 2015-16
- Head of the Department of Chemical Engineering, MANIT-Bhopal , 2018-19
- Chairman, Committee for establishing QIP Centre at MANIT- Bhopal, 2008-09
- Member Academic Reforms Committee, MANIT-Bhopal, 2007-08
- Institute UG Coordinator (Associate Dean Academics) 2008
- Currently: Member, Board of Studies, BOS, Department of Civil Engineering
- Currently: Member, Senate, MANIT-Bhopal
- Currently, PG Coordinator, Environmental Engineering
- Institute Coordinator, SPIC –MACAY 1998-2000
- Institute Yoga Club Incharge 1998-99.

Other Interactions/ Memberships

1. Member, State Level Schemes Sanctioning Committee, SLSSC, PHE Dept, Govt of MP
2. Member, Tourism Department State Level Works Sanctioning Committee, MP Government
3. Member, Task force on drafting Integrated Water Policy for MP State Policy and Planning Commission, Government of Madhya Pradesh
4. Faculty Coordinator for Green Revolution Global Certification Program “Green Revolution-Action against Climate Change” , A short term-Self study Global Certification Program by International Centre for Culture and Education (ICCE) in association with UNFCC, NASA and World Bank Institute.
5. A ERC reviewer to assist the European Research Council in the peer review evaluation of frontier research proposals submitted to the European Commission for financial assistance.

Membership of societies

Life Member, Indian Water Works Association, IWWA,
 Life Fellow, Institution of Public Health Engineers, IPHE, India,
 Life Member, National Solid Waste Association of India, NSWAI,
 Life Member, The Indian Science Congress Association