

# CURRICULUM VITAE

## Dr. SADASHIVA MURTHY B.M.

Professor & Head, Department of Environmental Engineering

Sri Jayachamarajendra College of Engineering, Constituent College under JSS Science & Technology University (JSSSTU), Mysore – 570 006, Karnataka, India

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### PERSONAL INFORMATION

Date of Birth: 26 March 1967

Father's Name: B.M. Mahadevappa

Nationality: Indian

Languages: Kannada, English (proficient); Hindi (read/write)

Residential Address: #17, "Nele", II Stage, Siddalingeshwara Layout, Behind Sumitra Steels, Ring Road, JP Nagar, Mysuru – 570 008, Karnataka

### EDUCATIONAL QUALIFICATIONS

Degree	Specialization / Thesis	University / Year
Ph.D. (Civil Engineering)	Multi-Component Transport and Fate of Fertilizer and Pesticide Residues in Sub-Soil and Groundwater	VTU, Belgaum – 2011
M.Tech. (Environmental Engineering)	Cost Functions for Rural Water Supply Systems	University of Mysore – 1993
P.G. Diploma in Environmental Planning	–	University of Mysore – 1993
B.E. (Civil Engineering)	Study for upgrading existing Airport in Mysore City	University of Mysore – 1989

### SPECIALISATION & TECHNICAL SKILLS

**Area of Specialisation:** Environmental Engineering

**Software Proficiency:** SEWER, SEPTREAT, LOOP, QUALOOP, WATPLANT, EPANET, RMAIN, Population Forecasting, MODFLOW (Visual), AERMOD, HYDRUS, VLEACH

### PROFESSIONAL EXPERIENCE

**Total Teaching Experience:** 33+ Years

Designation	Institution	Period
Professor & Head	Dept. of Environmental Engineering, SJCE, Constituent College under JSSSTU, Mysore	Jun 2022 – Present
Professor / Associate Professor / Assistant Professor (Selection Grade)	Dept. of Environmental Engineering, SJCE, Mysore	Dec 2010 – Jun 2022
Senior Lecturer	Dept. of Environmental Engineering, SJCE (under University of Mysore), Mysore	Aug 1997 – Jul 2002

Designation	Institution	Period
Lecturer	Dept. of Environmental Engineering, SJCE (under University of Mysore), Mysore	Jul 1992 – Jul 1997

#### Key Responsibilities:

- Teaching UG and PG courses in Environmental Engineering.
- Leading departmental consultancy, research, and sponsored projects.
- Supervising Ph.D. scholars, PG, and UG project students.
- Organizing and coordinating workshops, training programmes, and seminars.

### EXPERT COMMITTEE MEMBERSHIPS

- Member, Staff Empanelment Committee, NEERI, Nagpur (2025).
- Member, Expert Committee under PHE Sector Development Scheme (Used Water), constituted by CPHEEO, MoHUA, Government of India, New Delhi (2024–27).
- Member, Expert Sub-Committee on Circular Economy in Municipal Solid and Liquid Waste & Sludge (Recycling and Reuse), constituted by CPHEEO, MoHUD, Government of India, New Delhi (2021).
- Member, Expert Visit Committee (EVC), constituted by AICTE, New Delhi.
- Member, Expert Committee for Preparation of "Manual on Storm Water Drainage Systems", constituted by CPHEEO, MoUD, New Delhi (2018–2020).
- Member, Advisory Committee, Project on "Evolving Sustainable Conservation Strategies for Water Bodies of Proposed Mysuru-Nanjangud Local Planning Area", constituted by the Director General, EMPRI.
- Member, Editorial Board, Journal of Water Pollution & Purification Research, STM Journals.
- Member, City Sanitation Task Force (CSTF), Mysore City Corporation.
- Member, Board of Studies, Department of Environmental Engineering, SJCE, JSSSTU, Mysore.
- Member, Board of Examiners (UG & PG), PES College of Engineering (Autonomous), Mandya, Karnataka (2009–2013).
- Member, Board of Examiners, M.Sc. Tech. in Environmental Science, Karnataka State Open University (KSOU), Mysore (2011–2012).

### MEMBERSHIP OF PROFESSIONAL BODIES

Associate Member, American Society of Civil Engineers (ASCE) – 11518647	Member, International Water Association (IWA) – M 00838145
Fellow, Association of Consulting Civil Engineers (ACCE), India	Fellow, Indian Geotechnical Society (IGS), India
Fellow, Institute of Engineers, India – F-119023-3	Life Member, Indian Society of Remote Sensing – LM 6180
Life Member, Indian Society for Technical Education – LM 20999	Life Member, Indian Water Works Association – LM 2673
Life Member, Indian Association for Environmental Management – LM 1514	Life Member, Indian Society of Environmental Science and Technology (ISEST) – LM 263
Life Member, Institute of Public Health Engineering – LM 1117	Life Member, Indian Association for Air Pollution Control
Member, Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)	Member, Indian Environmental Association – A-654
Member, Rivers of the World Foundation (RWF)	Member, Water Environment Federation (WEF) – M 01023708
Member, Institution of Valuers (IoV)	

### RESEARCH PROJECTS

- Principal Investigator: "A Study on the Transport of Industrial Volatile Organic Compounds (VOC) through Different Sub-Soils and Groundwater Pollution" – UGC Funded (₹10.14 Lakhs). [Completed]
- Co-Investigator: "Treatment of Petroleum Refinery Wastewater for the Removal of Resorcinol and Catechol: Batch and Continuous Reactor Studies and Kinetic Analysis" – UGC Funded (₹10.5 Lakhs). [Completed]

## PH.D. RESEARCH SCHOLARS

### Scholars – Completed

Sl.	Candidate Name	University Seat No.	Year	Research Topic
1	Shahul Hameed K.P.	4JC12PCN04	2012–2020	Fate and Transport of VOCs through Different Sub-Soils and Groundwater
2	Deepa C.	4JC13PCN04	2013–2021	Development of Sustainability Performance Indicators for the Textile Industries
3	Parameshwara Murthy P.M.	4JC12PCN05	2012–2021	Reuse of Greywater for Secondary End Purposes

### Scholars – Ongoing

Sl.	Candidate Name	University Seat No.	Year	Research Topic
1	Madhukar M.	4JC13PCN03	2013	Study on the Development of a Hybrid Water Purification System to Treat Geogenic Pollutants
2	Rajeshwari R.	JSTD17ENV002	2019	Photocatalytic Degradation of Antibiotics and Pharmaceutical/Personal Care Product Residues from Secondary Effluents
3	Parinitha T. Niranjana	JSTD21ENV001	2021	An Integrated Approach for Municipal Solid Waste Management in Mysore City
4	Hemalatha Prabhuswamy	JSTD22ENV001	2022	Studies on Greywater Characteristics, Treatment, and Reuse

### Ph.D. Theses Evaluated (External Examiner)

- Dhanraj M.R. (MAHE – 171600101, 2021): "Study on the Impact of Artificial Recharge of Treated Domestic Sewage in an Unconfined Aquifer."

### Domain Expert – Pre-Ph.D. Comprehensive Viva Voce

- Mrs. Shakunthala C. (VVIET, Mysuru) – "Energy Harvesting using Microbial Fuel Cell and Its Performance Improvement by Synchronous Converter" – 09 December 2019.
- Mrs. Prasanna G. (MSRIT, Bangalore) – "A Comparative Study of Degradation Behaviour of Organic Fraction of Municipal Solid Waste during Aerobic and Anaerobic Composting" – 28 February 2020.
- Mr. Sridhara M.K. (Dr. SMCE, Nelamangala) – "Correlation between Drinking Water Quality and Health Risks in Chikkaballapur and Bagepalli Taluks" – 15 July 2020 (Online).
- Mrs. Sushma R. (BMSCE, Bangalore) – "Treatability and Energy Studies with Microbial Fuel Cell" – 23 February 2021 (Online).
- Mrs. Pavithra N. (BMSCE, Bangalore) – "Investigation on Groundwater and Soil Quality with Special Reference to Heavy Metals in and Around Peenya Industrial Area, Bengaluru."
- Mrs. Lavanya M.B. (STJIT, Ranebennur) – "Remediation of Heavy Metal Contaminated Soil: Phytoremediation Assessment through Column Experiment" – 03 September 2021.
- Mrs. Srirashmi S. (SJCE, Mysore) – "Impact of Ecological Sanitation on Human Health and Agriculture" – 13 December 2021 (Online).
- Ms. G.V. Rathnamala (Dayanandasagar College of Engineering, Bengaluru) – "Household Environmental Hazards and Emergent Pollutants in Rural Areas, Karnataka" – 14 February 2022.

## PROJECTS GUIDED

Total Projects Guided: 78 | PG: 44 | UG (VI Sem): 02 | UG (VIII Sem): 32 | M.Sc. (University of Mysore): 02

### Postgraduate (M.Tech.) Projects – 44

Sl.	Title of the Project	Year
1	Campus Wastewater Treatment and Reuse	1998
2	Sustainability of Rural Water Supply Schemes in Thiruvallur District, Tamil Nadu	1999
3	Technical Study of Water Supply Scheme for Kundhara and Adjoining Panchayats, Kerala	2000
4	Computer-Aided Design of Wastewater Treatment Units	2001
5	Development of a Disposal Technique for Grinding Muck Waste from an Automobile Component Industry	2002
6	Characterization, Route Optimization, and Solid Waste Management in Mysore City	2004
7	Integrated Solid Waste Management in Rajarajeshwari Nagar City Municipal Council	2005
8	Rural Water Supply Scheme for Nettekallu and Four Other Villages	2005
9	Modeling of Pollutant Migration in the Subsurface Environment	2005
10	Study on Composting of Municipal Solid Waste	2006
11	Rejuvenation of Source for CWSS to Kombai, Pannaipuram, and Thevaram Town Panchayats, Theni District, Tamil Nadu	2007
12	Study on Pollutant Migration in Subsurface Environment	2008
13	Degradation of Fertilizers and Pesticide (Chlorpyrifos) Using Lysimeter	2009
14	Estimating Transport of VOCs through Soil to Groundwater Using VLEACH Model	2010
15	Application of VLEACH Model to Estimate VOC Transport through Clayey Soil	2012
16	Utilization of Roller Flour Mill By-products for Biofuel Production	2012
17	Scenario of Solid Waste Management in an Institutional Campus	2012
18	Water Quality Study in Selected Restaurants of Mysore City: Health Risk Assessment	2013
19	Preparation of Silica Gel Using Rice Husk Ash – Eco-Friendly Approach	2013
20	Current Scenario of E-Waste Management in Mysore	2013
21	Treatment of Phosphorus at Inlets of Kukkarahalli Lake	2014
22	Recovery of Useful By-Products from Waste Stream of Pharmaceutical Effluent (M/s Jubilant Life Sciences Ltd.)	2014
23	Bio-Medical Waste Management for Mandya City	2014
24	Water and Energy Audit for a Chemical Industry – A Case Study	2015
25	Planning and Designing of a Comprehensive Water Supply Scheme for Four Panchayats in Kozhikode District, Kerala	2015
26	Rationalization of Sludge Removal and Disposal to Improve Sludge Treatment in a Food Processing Industry	2015
27	Life Cycle Assessment (LCA) as a Tool for Integrated Solid Waste Management – A Case Study	2016
28	Human Nails as a Biomarker for Fluoride Exposure – A Case Study	2016
29	Treatment of Domestic Wastewater Using Geotextile as Filter Media	2016
30	Water Footprint for an Integrated Steel Plant – JSW Steel Ltd., Bellary	2017
31	Biogas Generation from Anaerobic Digestion of Pulp and Paper Sludge	2017
32	Electrochemical Treatment and Disinfection of Healthcare Facility Wastewater Using 2D Electrodes	2018
33	Calibration Studies of 24×7 Water Distribution Network of CSR Command Area in Mysuru City	2018
34	Thermal Pyrolysis of Plastic Waste into Alternative Fuel	2019

Sl.	Title of the Project	Year
35	Decision Support System for Rural Water Supply Management	2019
36	Textile Wastewater Treatment by Horizontal Flow Constructed Wetland	2020
37	Techno-Environmental Analysis of Ginger Cultivation in Kodagu District, Karnataka	2020
38	Nutrient Removal Studies for Lake Restoration	2021
39	Pervious Concrete Paver Blocks Using Demolition Waste Aggregate	2021
40	Low-Cost Treatment of Greywater and its Reuse for Non-Potable Purposes	2022
41	Treatment of Dental Care Wastewater by Chemical-Adsorption and Bio-Adsorption – A Comparative Study	2022
42	Water Quality Prediction Using Machine Learning Approach	2023
43	Assessment of Water Distribution Network Using GIS and Hydraulic Modeling – DMA 3100, Mysuru	2024
44	Recovery of Polyols through Chemical Degradation of Rigid Polyurethane Foam E-Waste	2025

### University of Mysore – M.Sc. (Environmental Science) Projects – 02

Sl.	Title of the Project	Year
1	Solid Waste Management in Mysore City	2003
2	Quantification of Clinical Wastes in Mysore City	2003

### Undergraduate – VI Semester Projects – 02

Sl.	Title of the Project	Year
1	Comparison of Fuel Efficiency of Briquettes with Conventional Fuels	2003
2	Study on School Sanitation in Two Villages of Mysore District	2004

### Undergraduate – VIII Semester Projects – 32

Sl.	Title of the Project	Year
1	Case Study of Lingambudhipalya Village Water Supply Scheme	1996
2	Performance Evaluation of Settling Tanks in a Metal Valve Manufacturing Industry	1997
3	Sulfate Recovery from Textile Industry Wastewater	2000
4	Rural Water Supply and Sanitation in Project and Non-Project Villages of Mysore Taluk – An Evaluation Study	2000
5	Solid Waste Management in Mysore City	2001
6	Evaluation of Rural Water Supply System of Kadakola Village – A Case Study	2002
7	Treatment and Utilization of Wastes from Food Industry	2003
8	Groundwater Potential Zonation and Identification of Recharge Zones in Mysore District Using GIS	2004
9	Management of Epoxy Powder Generated from Printed Circuit Board Manufacturing	2005
10	Studies on Microbial Degradation of Methyl Parathion	2006
11	Leaching Characteristics of Nitrates and Phosphates in Subsurface Agricultural Soil	2007
12	Bio-Medical Waste Management in Mysore City – A Case Study	2008
13	Groundwater Quality Analysis in and Around an MSW Dumpsite	2009
14	Groundwater Analysis in and Around a Distillery near Nanjangud	2010

Sl.	Title of the Project	Year
15	Zero Waste Management in Mysore City – Case Study of Kumbarakoppal	2010
16	Water Quality Assessment in Dental Unit Waterlines (DUWL)	2011
17	Assessment of Groundwater Quality in Hebbal Industrial Area, Mysore	2011
18	Photodegradation of Selected Organic Dyes Using Metal Oxide-Based Semiconductors – A Comparative Study	2012
19	Study on Hospital Waste Management at JSS and KR Hospitals	2012
20	Performance Evaluation of ETP at South India Paper Mill (SIPM) Ltd., Nanjangud	2013
21	Solid Waste Management in a Tyre Industry	2014
22	Performance Evaluation of Effluent Treatment Plant at Karnataka Soaps and Detergents Ltd., Bengaluru	2015
23	Performance Evaluation of Effluent Treatment Plant at Hector Beverages Pvt. Ltd., Mysuru	2016
24	Integrated Approach for Treating PCB Manufacturing Waste Streams at AT&S, Nanjangud	2017
25	Experimental and Simulation Studies of Phosphorous in Agricultural Soil Using HYDRUS Software	2018
26	In-situ Treatment of Petroleum Contaminated Soil Using Oyster Mushrooms ( <i>Pleurotus Ostreatus</i> )	2019
27	Pipe Composting and Worm Tower Composting – An Approach Towards Sustainable Waste Management	2020
28	Seaweed – A Sustainable Source for Bioplastic	2021
29	Bioconversion of Organic Waste by Black Soldier Fly Larvae (BSFL) Technology	2022
30	Greywater Reclamation Using Vermi-Filters	2023
31	Removal of Pollutants from Greywater Using Activated Carbon	2024
32	Performance Evaluation and Upgradation of Sewage Treatment Plant – Mysore (Vanivilas)	2025

## PUBLICATIONS

### Books Published

**Transport & Fate of Fertilizer and Pesticide Residues in Sub-Soil** – Sadashiva Murthy B.M., Mahadevaswamy M., Ramesh H.S. ISBN: 978-3-639-51937-2 (2013).

### Peer-Reviewed Journal Papers – 48

- Bhardwaj A., Haswani D., Sunder Raman R., Laxmi Prasad S.V., Sadashiva Murthy B.M., and Lokesh K.S. (2026). "Light Absorption Properties of Elemental Carbon, Primary/Secondary Brown Carbon, and Mineral Dust at a Semi-Urban Site in Mysuru, Southern India." *Urban Climate*, 67: 102852.
- Putaud J.P., Cavalli F., Yttri K.E., Chow J.C., Watson J.G., Sadashiva Murthy B.M., et al. (2025). "A Worldwide Aerosol Phenomenology: Elemental and Organic Carbon in PM<sub>2.5</sub> and PM<sub>10</sub>." *Atmospheric Environment*, 358. <https://doi.org/10.1016/j.atmosenv.2025.12113>.
- Parinitha T. Niranjana, Sadashiva Murthy B.M., Istalingamurthy D., and Prashanth B. (2025). "Optimizing Municipal Solid Waste Collection for Environmental Sustainability: A GIS-Based Case Study of Mysuru City." *International Journal of Environmental Sciences*, 11(24s): 1895–1905. ISSN: 2229-7359 [Q3]. <https://doi.org/10.64252/hf7pp743>.
- Shobhan Majumder, Istalingamurthy D., Sadashiva Murthy B.M., and Prakash B.M. (2025). "Performance Evaluation of Microbial Desalination Cell (MDC) for Simultaneous Wastewater Treatment and Desalination." *Journal of Propulsion Technology*, Vol. 45. ISSN: 1001-4055.
- Shobhan Majumder, Istalingamurthy D., Sadashiva Murthy B.M., and Prakash B.M. (2024). "Sensitivity Analysis of Microbial Desalination Cell (MDC) Technology and Comparison with Existing Biological Treatment Systems." *Journal of Propulsion Technology*, 44(6). ISSN: 1001-4055.
- Delwin Pullokarana, Ankur Bhardwaj, Diksha Haswani, et al. (2024). "Spatio-Temporal Trends of the Relationships Between Surface PM<sub>2.5</sub> and Its Chemical Constituents Across Three COALESCE Network Locations in India: A Mass Closure Investigation." *Journal of Geophysical Research: Atmospheres*, 129(8): e2023JD039855.
- Chandra Venkataraman, Abhinav Anand, Sujit Maji, Sadashiva Murthy B.M., et al. (2024). "Drivers of PM<sub>2.5</sub> Episodes and Exceedance in India: A Synthesis from the COALESCE Network." *Journal of Geophysical Research: Atmospheres*, 129(14): e2024JD040834.

8. Taveen S. Kapoor, Chimurkar Navinya, Sadashiva Murthy B.M., et al. (2024). "Spatial Distribution in Surface Aerosol Light Absorption Across India." *Geophysical Research Letters*. <https://doi.org/10.1029/2024GL110089>.
9. Shamitha D., Suraj S., Nandini Hiremath, Sadashiva Murthy B.M., and Hemalatha Prabhuswamy. (2023). "Greywater Reclamation by Vermifilters." *International Journal of Novel Research and Development (IJNRD)*, 8(8). ISSN: 2456-4184.
10. Diksha Haswani, Ramya Sundar Raman, Sadashiva Murthy B.M., et al. (2023). "Pollution Characteristics and Ecological Risks of Trace Elements in PM<sub>2.5</sub> over Three COALESCE Network Sites – Bhopal, Mesra, and Mysuru, India." *Chemosphere*, 324: 138203. <https://doi.org/10.1016/j.chemosphere.2023.138203>.
11. Hemalatha D.S. and Sadashiva Murthy B.M. (2022). "Recycle and Reuse of Grey Water – A Case Study." *Everything About Water (India's First Water eMagazine)*. [www.eawater.com/eMagazine](http://www.eawater.com/eMagazine).
12. Parinitha T. Niranjana, Sadashiva Murthy B.M., and Istalingamurthy D. (2022). "A Study on Primary Collection System of Municipal Solid Waste via GIS in Selected Wards of Mysore City." *Journal of Electronics Information Technology Science and Management*, 12(11): 302–304.
13. Sadashiva Murthy B.M., Maheshwarkar P., Ralhan A., Sunder Raman R., et al. (2022). "Understanding the Influence of Meteorology and Emission Sources on PM<sub>2.5</sub> Mass Concentrations Across India: First Results from the COALESCE Network." *Journal of Geophysical Research: Atmospheres*, 127: e2021JD035663. <https://doi.org/10.1029/2021JD035663>.
14. Sadashiva Murthy B.M., Shravya S.C., Vybhava Lakshmi N., et al. (2021). "Seaweed – A Sustainable Source for Bioplastic: A Review." *IRJMETS*, 3(7). Impact Factor: 5.354.
15. Sadashiva Murthy B.M. and Shahul Hameed K.P. (2019). "Laboratory Soil Column Studies on Transport of Petroleum VOCs in Different Subsoils." *Indian Journal of Environmental Protection*, 39(9): 825–833.
16. Sadashiva Murthy B.M. and Shahul Hameed K.P. (2019). "Impact of Organic Matter on Volatilization of Petroleum VOCs from Soil Columns." *IRJET*, 6(3). e-ISSN: 2395-0056. Impact Factor: 7.211.
17. Sadashiva Murthy B.M., Parameshwaramurthy P.M., and Krupa Kadekoppa. (2018). "Design and Development of a Grey Water Reuse System." *International Journal of Advance Research, Ideas and Innovations in Technology*, 4(5): 266–272.
18. Sadashiva Murthy B.M. and Yashas S.R. (2017). "Synergistic Impact of Endocrine Disrupting Compounds (EDCs) on Environmental Facilities: A Mini Review." *International Journal of Engineering Trends and Technology*, 52(1). ISSN: 2231-5381.
19. Sadashiva Murthy B.M. and Priyanka A.M. (2017). "Biogas Generation using Anaerobic Digestion of Pulp and Paper Sludge." *IJSART*, 3(8). ISSN: 2395-1052.
20. Sadashiva Murthy B.M., Madhuri G., Ravi Tej Hegde, and Srinivas Rao R.T. (2017). "A Review on Water Footprint Study for the Steel Industry." *IJSART*, 3(7).
21. Sadashiva Murthy B.M. and Priyanka A.M. (2017). "A Review on Bio-Gas Generation from Anaerobic Digestion of Paper Sludge and Factors Affecting Bio-Gas Generation." *IJSART*, 3(7).
22. Sadashiva Murthy B.M., Shahul Hameed K.P., and Hariprasad N.V. (2016). "Estimation of VOC Transport through Subsoil to Groundwater Using VLEACH Model." *IJIRSET*, 5(10): 17527–17531. DOI: 10.15680/IJIRSET.2016.0510005.
23. Sadashiva Murthy B.M., Udayashankara T.H., and Madhukar M. (2016). "Sources of Arsenic in Groundwater and its Health Significance – A Review." *Nature Environment and Pollution Technology*, 15(3): 971–979. ISSN: 0972-6268.
24. Sadashiva Murthy B.M., Parameshwaramurthy P.M., and Kavya S. (2016). "Qualitative Characterization of Greywater from a Residential Complex in Bengaluru City, Karnataka, India." *International Journal of Engineering and Technical Research*, 5(9): 194–199.
25. Sadashiva Murthy B.M., Chandrakanth R., and Nandlal B. (2016). "Nails Used as Biomarkers for Fluoride Exposure." *IRJET*, 3(7): 1672–1678.
26. Sadashiva Murthy B.M. and Revathi H.U. (2016). "Treatment of Domestic Wastewater Using Geotextile as a Filter Media." *IRJET*, 3(7): 1632–1637.
27. Sadashiva Murthy B.M. and Bharath M.M. (2016). "Toxicity Assessment of Municipal Solid Waste – A Case Study." *IRJET*, 3(7). p-ISSN: 2395-0072.
28. Sadashiva Murthy B.M., Parameshwaramurthy P.M., and Kavya S. (2016). "Greywater Treatment & Reuse: A Technological Review." *Global Journal for Research Analysis*, 5(3). ISSN: 2277-8160.
29. Sadashiva Murthy B.M., Parameshwaramurthy P.M., and Kavya S. (2016). "Greywater Reuse: A Sustainable Solution for Water Crisis in Bengaluru City." *Proc. ICEACE-2016*, pp. 88–89. ISBN: 978-93-84468-48-4.
30. Sadashiva Murthy B.M., Udayashankara T.H., and Madhukar M. (2016). "Impact of Climate Change on Rainfall Pattern and Reservoir Level." *Journal of Water Resource Engineering and Management*, 3(1): 10–14.
31. Sadashiva Murthy B.M. and Revathi H.U. (2016). "Treatment of Domestic Wastewater Using Chemical Coagulation Followed by Geotextile Filtration." *IJRRIS*, 3(1): 27–30.

32. Sadashiva Murthy B.M., Udayashankara T.H., and Madhukar M. (2015). "Floating Plant Clusters for Urban Runoff Pollution Abatement System (FPC-UROPAS): A Bench Scale Study." *International Journal of Scientific Research*, 4(11). ISSN: 2277-8179.
33. Sadashiva Murthy B.M. and Regin Raj. (2015). "Increasing the Sludge Treatment Efficiency of a Food Processing Industry." *IRJET*, 2(6). e-ISSN: 2395-0056.
34. Sadashiva Murthy B.M., Udayashankara T.H., Vanitha T.K., and Madhukar M. (2015). "A Study on Quality of Drinking Water in Hotels at Mysuru, India." *IRJET*, 2(4).
35. Sadashiva Murthy B.M., Udayashankara T.H., and Adarsh S.V. (2014). "A Review on Bio-Degradation of VOCs in Subsoil." *IJERT*, 3(12). ISSN: 2278-0181.
36. Sadashiva Murthy B.M., Vedaprada R., Mahadevaswamy M., and Madhukar M. (2014). "Study on the Degradation of Fertilizers and Pesticides Using Lysimeter." *IJRET*, 3(11). eISSN: 2319-1163.
37. Sadashiva Murthy B.M. and Shahul Hameed K.P. (2014). "A Review on Transport Modeling of VOCs in Subsoil." *IJRSET*, 3(8). ISSN: 2319-8753. DOI: 10.15680/IJRSET.2014.0308019.
38. Sadashiva Murthy B.M. and Chaithra K.M. (2014). "Bio-Medical Waste Management System for Mandya City." *IJSR*, 3(5). ISSN: 2319-8753.
39. Sadashiva Murthy B.M., Udayashankara T.H., and Madhukar M. (2014). "A Review on Conventional and Alternative Methods for Defluoridation of Water." *Journal of Water Pollution & Purification Research*, 1(2).
40. Sadashiva Murthy B.M. and Chaithra K.M. (2014). "Biomedical Waste Management System for Mandya." *IJSR*, 3(7). ISSN: 2319-7064.
41. Sadashiva Murthy B.M., Ramesh H.S., and Mahadevaswamy M. (2009). "Pollution Migration Study in Subsurface Environment." *International Journal of Environmental Research (IJER)*, 3(4): 545–556.
42. Sadashiva Murthy B.M., Ramesh H.S., and Mahadevaswamy M. (2009). "Fate of Fertilizers in Agricultural Sub-Soil Environment." *Journal of Indian Association for Environmental Management (IAEM)*, 3(1): 52–56.
43. Sadashiva Murthy B.M., Madhu S.M., and Swaminathan P. (2007). "Reclamation and Reuse of Filter Backwash Water – A Case Study of the Kalliseri Water Treatment Plant in Kerala State, India." *Journal of Water and Wastewater Asia*, pp. 48–51.
44. Sadashiva Murthy B.M., Swaminathan P., Madhu S.M., and Lokesh M. (2005). "Reclamation and Reuse of Filter Backwash Water – A Case Study of Kalliseri WTP, Kerala." *Journal of the Institution of Public Health Engineers, India*, 2005(3): 9–13.
45. Sadashiva Murthy B.M., Girijamma A.R., and Rajesh S. Bejankiwar. (2004). "Development of an Evaluation Criteria for Rural Water Supply and Environmental Sanitation Programme in Project and Non-Project Villages." *Journal of Environmental Science and Engineering*, 46(1): 41–48.
46. Sadashiva Murthy B.M., Mahadevaswamy M., and Girijamma A.R. (2004). "Performance Evaluation of Up-Flow Anaerobic Sludge Blanket (UASB) Reactor for Treatment of Paper Mill Wastewater." *Journal of Environmental Sciences*, 16(2): 194–198.
47. Sadashiva Murthy B.M., Rajesh S. Bejankiwar, Keerthi D'Souza, and Rajesh Singru. (2002). "Electrochemical Removal of Endosulfan from Groundwater Samples Using Iron and Steel Electrodes." *Journal of the Institution of Public Health Engineers, India*, 2002(3).
48. Sadashiva Murthy B.M., Mahadevaswamy M., and Madhu S.M. (2002). "Comparative Sorption Kinetic Studies of O-Cresol on Bagasse Flyash with and without Impregnation." *Water & Environmental Management Series, IWA-WAPDEC, Section 1*, pp. 797–812.

## CONFERENCE PAPERS

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### International Conferences – 15

1. Delwin Pullokaran, Ankur Bhardwaj, Diksha Haswani, Ramya Sunder Raman, Sadashiva Murthy B.M., et al. (2025). "Advancing PM<sub>2.5</sub> Source Apportionment through Dispersion Normalized PMF: A Comprehensive Study across India." *EGU General Assembly 2025*. <https://doi.org/10.5194/egusphere-egu25-1087>.
2. Prijilesh T.P., Pushpa Tuppada, Sadashiva Murthy B.M., Dharma Hagare, and Basant Maheshwari. (2025). "Modular Hybrid STP: A Sustainable Solution for Decentralised Urban Wastewater Management." *AIWC@5 – AIWC Partner Forum and International Symposium, Australia India Water Centre, Western Sydney University, Australia*, 17–19 November 2025.
3. Hemalatha D.S., Sadashiva Murthy B.M., Sandeep N. Mudliar, and Istalingamurthy D. (2025). "Linking Urban Water Management with Circular Economy Principles: An Integrated Approach." *AIWC@5 – AIWC Partner Forum and International Symposium, Australia India Water Centre, Western Sydney University, Australia*, 17–19 November 2025.
4. Sadashiva Murthy B.M., Parameshwaramurthy P.M., and Kavya S. (March 2016). "Greywater Reuse: A Sustainable Solution for Water Crisis in Bengaluru City." *Proc. ICEACE-2016*, pp. 88–89. ISBN: 978-93-84468-48-4.

5. Sadashiva Murthy B.M., Mahadevaswamy M., and Ramesh H.S. (2008). "Fate of Nitrate and Phosphate through Agricultural Sub-Soil Environment." International Workshop on Geoenvironment and Geotechnics (GEOENV 2008), Milos Island, Greece.
6. Sadashiva Murthy B.M., et al. (2007). "Applications of Sensitivity Analysis – A One-Dimensional Analytical Model for Parameter Estimation." IAHS Groundwater Quality 2007 (GQ07), Fremantle, Australia.
7. Sadashiva Murthy B.M., et al. (2007). "Multi-Component Fate and Transport of Pollutants in Agricultural Sub-Soil: Development and Validation of the Analytical Model." IAHS GQ07, Fremantle, Australia.
8. Sadashiva Murthy B.M., Mahadevaswamy M., and Ramesh H.S. (2007). "Development of Screening Level Contaminant Transport Model." 3rd International Conference on Environmental Science and Technology, Houston, Texas, USA.
9. Sadashiva Murthy B.M., et al. (2006). Abstract accepted: "Modelling Methods and Techniques in Hydraulics, Hydrology, Eco-hydraulics and Water Quality." 7th International Conference on Hydroinformatics (HIC 2006), Nice, France.
10. Sadashiva Murthy B.M., Mahadevaswamy M., and Pavithra M. (2006). "Development of Analytical Mass Transport Model for Pollutant Migration in the Subsurface Environment." World National Congress, Omaha, Nebraska.
11. Sadashiva Murthy B.M., Madhu S.M., and Swaminathan P. (2005). "Reclamation and Reuse of Filter Backwash Water – A Case Study of Kalliseri WTP, Kerala." 1st IWA-ASPIRE Conference and Exhibition, Singapore.
12. Sadashiva Murthy B.M., et al. (2005). "Impact of Pesticides and Fertilizers on the Quality of Freshwater and Human Health – A Review." International Conference on Water & Health, SJCE, Mysore.
13. Sadashiva Murthy B.M., Prasanna Raj P., and Vijay Kumar G.S. (2005). "Study of Water Distribution Systems during Investigation of Typhoid Epidemic in Mysore City." International Conference on Water & Health, SJCE, Mysore.
14. Sadashiva Murthy B.M., et al. (2004). "Present Scenario of Solid Waste Management in Mysore City – A Case Study." International Conference on Environment and Development, Science City, Kolkata.
15. Sadashiva Murthy B.M., Rajesh S. Bejankiwar, and Deepa M.P. (2002). "Electrochemical Pre-treatment of Wastewater from Colour Photograph Processing Unit." 28th WEDC Conference, Kolkata.

### **National Conferences – 06**

1. Diksha Haswani, Sadashiva Murthy B.M., et al. (2023). "Study of Aerosol Trace Elements over Three COALESCE Network Locations in India." EGU23-6113. <https://doi.org/10.5194/egusphere-egu23-6113>.
2. Sadashiva Murthy B.M., et al. (2006). "Leaching Characteristics of Pollutants in Agricultural Subsoil Environment." All India Seminar on PURA, Institute of Engineers, Mysore Local Centre.
3. Sadashiva Murthy B.M., et al. (2005). "Studies on Microbial Degradation of Methyl Parathion." State Level Conference on Environmental Pollution and Management, JSS College, Mysore.
4. Sadashiva Murthy B.M., et al. (2003). "Biomedical Waste Management – A Case Study of Mysore City." National Conference on Innovative Approaches in the Management of Environment, Delhi College of Engineering.
5. Sadashiva Murthy B.M. and Malini M. (2001). "Present Scenario of Solid Waste Management in Mysore City." National Seminar on Environmental Hazard, University of Mysore.
6. Sadashiva Murthy B.M., Lokesh K.S., and Malini M. (2001). "Ex-situ Bioremediation of Soil Contaminated with Polyaromatic Hydrocarbons." ENVIROVISION-2001, Mumbai.

### **REVIEWER / EDITORIAL ROLES**

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- IWA Water & Development Congress & Exhibition, Bangkok, Thailand (8–12 December 2025).
- International Journal of Engineering Research (ISSN: 2319-6890).
- Journal of Environmental Science and Water Resources.
- International Journal of Agricultural Sciences.
- International Journal of Agricultural Management.
- Journal of Water Pollution & Purification Research, STM Journals.
- International Journal of Engineering Research.

### **TRAINING PROGRAMMES COORDINATED**

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Coordinated 83 training programmes under ITN-WATSAN, sponsored by RGNDWM, Government of India, for working professionals of state government departments across southern India. Topics covered:

- Water Quality Monitoring and Surveillance
- Rural Water Supply and Waste Management
- Surface Drainage and Soak Pits

- Investigation, Installation, Operation and Maintenance of Hand Pumps
- Computer-Aided Design of Rural Water Supply Systems

#### **Other Notable Programmes:**

- Co-ordinator, AICTE-ISTE Sponsored Short-Term Training Programme on "Managing Hazardous Wastes in the New Millennium," SJCE, Mysore (3–15 September 2001).
- Co-ordinated the five-day MISSION10X "High Impact Teaching Skills" Workshop, SJCE, Mysore (25–29 May 2009).
- Co-ordinated the five-day SWOT Analysis Programme for Teaching and Non-Teaching Staff, SJCE, Mysore (May 2010).
- Coordinated multiple Refresher Courses and Short-Term Courses for PWD, CPWD, PHED, and Zilla Panchayat engineers since 1993.

## **ACADEMIC & PROFESSIONAL STATISTICS**

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Journal Papers Published	48
Conference Papers Presented	21 (15 International, 6 National)
Short-Term Courses / Conferences / Seminars / Workshops Attended	109
International Conferences / Seminars Attended	13
National Conferences / Seminars / Workshops Attended	108
AICTE-ISTE Conferences / Workshops / Seminars Attended	23
Total Projects Guided	78 (PG: 44, UG: 34, M.Sc.: 2)
Ph.D. Scholars Guided (Completed)	3
Ph.D. Scholars Guiding (Ongoing)	4
Books Published	1
Research Projects (UGC Funded)	2

## **KEY CONSULTANCY & NOTABLE ACTIVITIES**

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- Comprehensive Design of Wastewater Collection and Treatment System for Kavaratti Island, Union Territory of Lakshadweep.
- Water Quality Predictions in River Kali Due to the Impact of Treated Effluent Discharge for M/s West Coast Paper Mills Ltd., Dandeli (June 2006 – April 2007).
- HPCL Consultancy Project on "Development of a Computer Model to Predict the Location of Petroleum Oil Slick Downstream of River Crossing Locations of the Mangalore–Bangalore Pipeline Project" (1999–2001).
- RDED Consultancy Project on "Water Quality Analysis in Rural Areas of Karnataka at Kollegala and Periyapatna Taluk" (2001).
- Involved as Deputy Leader for LTN Scoping Study on Learning and Teaching Network for Engineering Academics in Low- and Middle-Income Countries – A KAR Inception Project, DFID, UK (2003).
- Field data collection for Bradford Training Course on "Project Planning, Appraisal and Implementation of Rural Water Supply and Sanitation," sponsored by Rajiv Gandhi National Drinking Water Mission, GoI (Nov–Dec 1991 and 1993).
- Air Quality Monitoring and Prediction using AERMOD Software at JSW Steel Limited, Vidyanagar, Bellary (September 2013).

## **COUNTRIES VISITED**

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United Kingdom, Germany, United States of America, Singapore, Malaysia, Thailand, Greece, and Italy.

### Technical Visits – International

- NEwater Visiting Centre, Singapore
- Marina Barrage Dam at Marina Channel, Singapore
- S&B Mines, Milos Island, Greece
- CONDIAS, Germany
- PROAQUA, Germany

### Technical Visits – India

- Centre for Science and Environment (CSE), Tughlakabad, New Delhi
- Toyota Kirloskar Auto Parts Pvt. Ltd., Bidadi, Bengaluru
- LM Wind Power Blades, Dabaspet, Karnataka
- Karnataka Waste Project Management (KWMP) – Ramky Enviro Engineers Ltd., Hazardous Waste Treatment Storage Facility, Dabaspet
- Mangalore Chemical and Fertilizers, Mangalore
- Mangalore Refinery and Petrochemicals Limited (MRPL), Mangalore
- BASF India Limited, Mangalore
- New Mangalore Port Trust, Mangalore
- Hindustan Petroleum Corporation Limited (HPCL), Mangalore
- Barge-Mounted Power Plant – Tannir Bhavi Power Project, Mangalore
- Kudremukh Iron Ore Company Ltd. (KIOCL), Kudremukh; and KIOCL Steel & Pelletisation Plant, Mangalore
- Beypore Shipyard, Kozhikode, Kerala
- Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Chennai
- United Spirits Limited, Bethora-Ponda, Goa
- Jubilant Organosys, Nanjangud, Karnataka
- AT&S India Pvt. Ltd., Nanjangud, Karnataka
- Gemini Distilleries Pvt. Ltd., Nanjangud, Karnataka
- Davangere Cotton Mills, Davangere, Karnataka
- Grasim Industries Ltd. (Harihar Polyfibers), Karnataka
- Mysore Paper Mill (MPM) Ltd., Bhadravathi, Karnataka
- Visvesvaraya Iron and Steel Ltd. (VISL), Bhadravathi, Karnataka
- The West Coast Paper Mills Ltd., Dandeli, Karnataka
- JSW Steel Limited, Toranagallu, Bellary, Karnataka
- Waste Treatment Facility, Infosys, Mysuru
- Reid & Taylor, Nanjangud, Karnataka
- ITC Foods Ltd., Nanjangud, Karnataka
- BEML Truck Production Unit, Mysuru
- King Institute, Chennai

### OTHER MEMBERSHIPS

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- Life Member, Akhila Bharatha Veerashaiva Mahasabha (Regd.), Mysore District Unit
- Life Member, Akhila Bharatha Sharana Sahitya Parishad (Regd.), Mysore

**(Dr. Sadashiva Murthy B.M.)**

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