

CURRICULUM VITAE

Dr. B. MANOJ KUMAR

**Dean Academic JSS STU &
Professor, Department of Environmental
Engineering, Sri Jayachamarajendra
College of Engineering, JSS Science and
Technology University, MYSORE - 570 006,
Karnataka, INDIA**

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MYSORE - 570 011,
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YEARS WITH FIRM: 30 YEARS

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EDUCATIONAL QUALIFICATION:

- ❑ **Ph.D. (Environmental Engineering), Indian Institute of Technology Bombay, Mumbai – 2006**
- ❑ **M. Tech., (Environmental Engineering), University of Mysore, Mysore – 1991**
- ❑ **B.E., (Civil Engineering), University of Mysore, Mysore – 1987**

Ph.D. THESIS:

**BIOLOGICAL NUTRIENT REMOVAL IN SEQUENCING
BATCH REACTOR**

EXPERIENCE:

**30 years of Teaching Experience including 24 years
of Research Experience while working at Sri
Jayachamarajendra College of Engineering, Mysore**

MEMBERSHIP OF PROFESSIONAL BODIES:

- ❑ **Life Member, Indian Water Works Association, India (LM No. 9011, 2017)**
- ❑ **FIE - Institution of Engineers, India (F-119257)**
- ❑ ***Life Fellow - Institution of Valuers***
- ❑ ***Life Member – Indian Nuclear Society***
- ❑ ***Life Member – ISTE***
- ❑ ***Life Fellow – Indian Association for Air pollution Control***
- ❑ **Life Member – Indian society for Technical Education (LM-16777)**
- ❑ **International Organization for Biotechnology and Bioengineering**

EMPLOYMENT RECORD IN INSTITUTION (STARTING FROM PRESENT POSITION):

2021 onwards Dean Academic- JSS Science & Technology University
2020-2022 Professor & Head, Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering
2017-2022 TEQIP III Coordinator
13.01.2010 onwards Professor
16.10.2006 to 12.01.2010 Assistant Professor
13.01.2003 to 29.03.2006: Selection Grade Lecturer
13.01.1998 to 12.01.2003: Senior Lecturer
03.08.1992 to 12.01.1998: Lecturer

THESIS / PROJECT GUIDED

Ph.D.	- 03 (Registered); 03 (Awarded)
M.Sc. (Engg.) by Research	- 02
M. Tech.	- 22 Completed, 02 Ongoing
M.Sc (University of Mysore)	- 01 Completed
M.Sc (JSS University)	- 01 Completed
B.E.	- 20 Batches Completed, 01 Ongoing

PROFESSIONAL EXPERIENCE

- Teaching both under graduate – B.E (Environmental Engineering and Biotechnology) and post-graduate – M.Tech (Environmental Engineering); M.Tech (Health Sciences and Water Engineering and M.Tech ((Energy System & Management; Electrical Engineering) courses at Sri Jayachamarajendra College of Engineering as well as M.Sc. (Environmental Science) students, University of Mysore, and JSS University, Mysore.
- Teaching a part of first year subject “Basic Civil Engineering” for first year students at MLV Textile & Engineering College, Bhilwara, Rajasthan (29th & 30th March 2019) under TEQIP III.
- Involved in consultancy works and research projects taken up by the Department of Environmental Engineering.
- Coordinated several Refresher Courses, Workshops and Short Term Courses and delivered lectures in refresher courses, continuing education programmes for working professionals of various Government organizations of different states (PWD, CPWD, PHED, Zilla Panchayats etc.).
- Course Contributor and prepared several lecture material for Training and Awareness Programmes.
- Reviewer for research papers published in several International Journals.
- Presented research papers in international conference/ workshops held at India, United States of America, Australia.

Research Projects:

- ❑ **Principal Investigator**, (Dr. PuspaTuppad (Co-PI), Rohini (Collaborator – CDD)), "Biological nutrient removal from wastewater in modified DEWATS system for reduced land and energy footprint", approved by Department and Science and Technology under Water Technology Initiative. DST funding: Rs. 35 lakhs; Collaborator: Rs. 12 lakhs.
- ❑ **Principal Investigator** (Dr. H. S. Ramesh (CO-PI) for the research project on "River Water Quality Modelling Studies to Mitigate the Pollution Load from Coffee Processing Units around Cauvery River Basin" sanctioned by Ministry of Environment and Forests, Government of India, New Delhi. Total cost of the project is Rs. 18,54,720.00 (Rupees Eighteen Lakhs Fifty Four Thousand Seven Hundred Twenty Only).
- ❑ **Principal Investigator** for the research project "Advanced Treatment Techniques for Fluoride, Hardness and Nitrate Removal" (Sanctioned on 01.01.2010; VTU/Aca/2009-10/A-9/11419), by Visvesvaraya Technological University, Karnataka. Total Cost of the research project is Rs. 11,81,000.00 (Rupees Eleven Lakhs Eighty One Thousand Only).
- ❑ European Society for Evolutionary Biology (ESEB), Department of Biotechnology, poster contest on "Evoluionary Biology in the 21st Century" for under graduate students and presentation on "Origin of Life and its Continuity" for high school students of Mysore City) – 2013-14.
- ❑ TEQIP funding for M.Tech Project (Ranjini T. H.) on "Isolation and identification of Micro- Organisms for efficient Removal of Nitrate from Groundwater".
- ❑ KSCST students projects "Removal of Nitrate from Ground Water" Karnataka State Council for Science and Technology Student Projects Programme (SPP – 30th Series).
- ❑ KSCST students projects "Evaluation of Chitosan in different forms for Removal of Nitrate, Flouride and Bacteriological Contaminants from Groundwater", 2013, Karnataka State Council for Science and Technology Student Projects Programme.

Member

- ❑ Technical member, No increase in Pollution Load of Karnataka State Pollution Control Board constituted by Ministry of Environment & Forests and Climate Control, Government of India (2022 onwards).
- ❑ Member, National Green Tribunal - Carrying Capacity Assessment for the Eco-sensitive Zone of Bandipur National Park constituted by EMPRI, Bangalore (2022 onwards).
- ❑ Member, Chamarajanagar Heritage Conservation Committee (2021 onwards).

- ❑ **Technical member of Karnataka Tank Conservation & Development Authority (KTCD), Bangalore (2018 onwards).**
- ❑ **Member, Karnataka State Environmental Appraisal Committee, Department of Ecology and Environment, Government of Karnataka (Committee constituted by Ministry of Environment and Forests, Government of India).**
- ❑ **Member, Committee of Experts constituted for examination of report submitted by EMPRI on protection of Thippegonadanahalli Reservoir (TGR).**
- ❑ **Member, Committee of Experts constituted to investigate the issues pertaining to the fire incident in the private land at Sy. No. 329, Belavatta Hobli, Naganahalli Village, Mysore Taluk.**
- ❑ Member, Board of Governors, MLV Textile and Engineering College, Bhilwara, Rajasthan (2018 onwards).
- ❑ Academic Council Member, JSS Science and Technology University, Mysore (2022 onwards)
- ❑ Member, TEQIP III Board of Governors, Sri Jayachamarajendra College of Engineering (Autonomous), Mysore (2017 onwards)
- ❑ Member, Board of Studies, Department of Civil and Environmental Engineering, University School of Engineering, University of Mysore (2022 onwards)
- ❑ Member, Board of Studies, Department of Environmental Sciences, University of Mysore (2020 onwards)
- ❑ Member, Board of Studies, Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering (Autonomous), Mysore and Member/ Subject Expert, Board of Studies, Department of Civil Engineering, Basaveshwar Engineering College (Autonomous), Bagalkot.
- ❑ Member, Board of Examiners: Kuvempu University, Karnataka (2006-2009); Bangalore University, Karnataka (2008-2009); PES College of Engineering (Autonomous), Mandya, Karnataka (2009-2015).

CONTRIBUTION TO INDUSTRIAL DEVELOPMENT IN THE FORM OF CONSULTANCY (MAJOR CONSULTANCY PROJECTS)

A Comprehensive Design of Wastewater Collection Treatment and Disposal for Kavaratti Island, Lakshadweep	Lakshadweep Administration	1993 – 1996
River Water Quality Studies for Cauvery and Thungabhadra Rivers	National Rivers Action Plan Project, Government of India	1993 – 1994
Thungabhadra River Water Quality Studies near Harihar Town - part of EIA Studies for Harihar Polyfibres & Grasilene Industries at Harihar	AICWATSAN Consultants Ltd., Bombay	January 1996 – September 1997

Ambient Air Quality, Noise Monitoring, Surface and Ground Water Quality Studies near Granite Quarry Areas of Chamarajanagar Taluk	Department of Mines and Geology, Government of Karnataka	January 1997 - August 1997
Noise Monitoring in the Industrial Premises and nearby Residential Area.	M/s Raman Boards Pvt. Ltd., Premier Studio Premises, Mysore.	December 1997 - January 1998
Performance Efficiency Studies of Wastewater Treatment Systems	M/s. Automotive Axles Ltd., Mysore	1998
Development of Computer Model to Predict the Location of Petroleum Oil Slick, Downstream of River Crossing Locations of Mangalore – Bangalore HPCL Pipeline	Hindustan Petroleum Corporation Ltd., Bangalore	1998-1999
Development of Computer Based Training Package (CBT) in Environmental Engineering for UNDP, New Delhi	Excel Softwares, Mysore	1999
Noise Monitoring in the industrial premises of M/s. Zenith Textiles Ltd., Nanjangud	M/s. Zenith Textiles Ltd., Nanjangud	
Comprehensive Wastewater Treatment Scheme	M/s. South India Paper Mills Ltd., Nanjangud	1999
River Water Quality Monitoring of River Cauvery and Kabini at Srirangapatna, K.R. Nagar and Nanjangud	NRCD, Ministry of Environment and Forest, Government of India, New Delhi	1998-2000
Design of Water Pumping Main for Suttur Mutt, Mysore	Suttur Mutt, JSSMVP, Mysore	2004
Technical evaluation of project report on “Design, Supply, Installation and Commissioning of Sewage Treatment Plant” at JSS College of Pharmacy and JSS School, Ooty	JSSMVP Civil Division, Mysore	2004
Indoor Air Quality Monitoring at Engine Plant of BEML, Mysore, as a part of consultancy on “Air Quality and Ventilation System at Engine Plant”	BEML, Mysore	January 2004
Water Quality Modelling to the Proposed Waste Dumpsite	JINDAL Vijayanagar Steel Ltd., Toranagallu Village, Vidyanagar, Bellary	2005
<i>Design of Pumping Main from Singapura Ground Level Reservoir (GLR) to Bahubalinagar, Bangalore</i>	<i>Bangalore Water Supply and Sewerage Board (BWSSB), Bangalore</i>	<i>June to September 2006</i>
Water Quality Predictions in River Kali Due to the Impact of Treated Effluent Discharge	M/s West Coast Paper Mills Ltd., Dandeli	June 2006 to April 2007
Water Quality and Hydro-Geological Survey in the premises of M/s Samsons Distilleries Pvt. Ltd.	M/s Samsons Distilleries Pvt. Ltd., Duggavathi, Davanagere	September 2008 to December 2008
“Water and Wastewater treatment facilities” for Malnad Child Care Centre, Madikeri	M/s Malnad Child Care Centre, Madikeri	February 2009 onwards
Lake Water Quality Modeling for Embassy Group	M/s Embassy Group, “Embassy Point”, Bangalore	May 2009 – September, 2009

Water Quality Modeling of Ganga River for the proposed project of Barauni Thermal Power Station (Downstream of the Rajendra Bridge at Chakia village of Begusarai District, Bihar.	M/s Enzen Water Solutions Pvt. Ltd., Bangalore	June 2009 onwards
Belandur Lake Water Quality Monitoring at Bangalore	M/s Embassy Group, "Embassy Point", No. 150, Infantry Road, Bangalore	July – September, 2009
Kali River Water Quality Study (Rs. 3,08,200/- only)	The West Coast Paper Mills Ltd., Dandeli	2012 -2014
Project Appraisal of interim report on "Population Projection and Design Parameters for Comprehensive UGD Scheme to Mysore under Jn-NURM Transition Phase", Rs. 2,00,000.00	Karnataka Urban Water Supply and Sewerage Board, Mysore	Oct 2013
Evaluation of Design Reports of 24 x 7 water supply for Mysore city under JN-NURM Phase-2 (Rs. 2,00,000.00)	Karnataka Urban Water Supply and Sewerage Board, Mysore	2013
Evaluation of design reports of "Integrated bulk water supply to Mysore city from Cauvery river source near hale Undavadi under UIG sub-mission", Rs. 2,00,000.00		Feb 2014
Design of Sewage Network & Sewage Treatment Plant for Koppal Institute of Medical Sciences, Koppal, Karnataka; Government of Karnataka, completed April 2015, Rs. 100,000.00	KHSDRP (Karnataka Health System Development and Reform Project), Public Works Department, Karnataka	January-April, 2015
Design of Tertiary Treatment System of capacity 20 MLD expandable to 45 MLD for Treating Sewage to use for Secondary Purpose, Bangalore Water Supply and Searage Board, Bangalore, Karnataka; Rs. 100,000.00	ARK Rao Engineering Solutions, Bangalore	May-August 2015
Kali River Water Quality Study Rs. 3,96,750.00 (Rupees Three Lakh Ninety Six Thousand Seven Hundred Fifty Only)	The West Coast Paper Mills Ltd., Dandeli	2018 -2019
Green Audit Consultancy Rs. 10,000.00	JSS ATE, Bengaluru	2021-2022
Green Audit Consultancy Rs. 28,000.00	Dayananda Sagar Academy of Technology and Management – Bengaluru	2021-2022
Green Audit Consultancy Rs. 6000.00	Basudev Somani College, Mysuru	2021-2022
Green Audit Consultancy Rs. 6000.00	MMK SDM MMV, Mysuru	2021-2022
Green Audit Consultancy Rs. 5000.00	JSS Art, Commerce and Science College, Nanjanagud	2021-2022
Due Diligence Studies of Soil Rs. 1,50,000.00	Auoliv Industries, Nanjangud	2022 (Ongoing)
Environmental Quality Analysis and Air modelling Consultancy,	Chenguang Natural Extracts India Pvt. Ltd	2022 (ongoing)

Rs. 5.43 Lakhs (Rupees Five Lakhs Forty Two Thousand Eight Hundred only)		
WCPM ETP Audit Rs. 7.40 Lakhs (Rupees Seven Lakh Forty Thousand only)	The West Coast Paper Mills Ltd., Dandeli	2022 (ongoing)

List of Presentation and Publication in the International / National Conferences/

Symposia

National Conferences and Symposia

Manoj Kumar B. and Dr. T.P. Halappa Gowda, (1992), "Dissolved Oxygen Prediction in Mixing Zones of Rivers for Multiple Outfall System", Eighth National Convention of Environmental Engineers, Institution of Engineers (India); Allahabad, India, 30th October 1992 (Presentation and Published in proceedings).

Manoj Kumar B., Pushpa T., Deepak K.M., (1997), "Anaerobic Digestion of Yeast Manufacturing Industry Effluent", National Seminar on Anaerobic Technologies for Waste Treatment; Centre for Environmental Studies, Anna University, Chennai, India 11-12, Dec.1997, (Presentation and full paper published in proceedings).

Manoj Kumar B., and Sanjeev Chaudhari,, (2002), "Biological Phosphorus Removal in Sequential Batch Reactor and Sequential Batch Biofilm Reactor" EnviroVision – 2002; Organised by Indian Environmental Association, Mumbai, held at World Trade Centre, Cuffe Parade, Mumbai; 31st May - 1st June 2002, published in the proceedings of Seminar.

Lokesh K. S., Anabazhagan, and **Manoj Kumar B.**, (2004), "Dissolved Oxygen Prediction Using 2 – D models in Mixing Zones of River Cauvery near Komarapalayam Town, Tamil Nadu", National Conference on "Developments in Water Science & Management" held at Vellore Institute of Technology, Vellore, Tamil Nadu, 11th – 12th March 2004 (Presentation and Published in the proceedings).

Manoj Kumar B., Haraprasad N., Girijamma A.R., Sudevi Basu and Bhuvanendra Kumar H., (2004), "Effect of Enhanced Biological Phosphorus Removal Sludge on Seed Quality", "2004 - National Seminar on Emerging Trends in Applied Botany, Seed Science and Technology", Department of Studies in Applied Botany, University of Mysore, Mysore, 4-6 Nov. 2004 (Presentation).

Manoj Kumar B., Deepika K, Sudharani S., Rashmi S., Sowmya and Manonmani H. K., (2005), "Microbial Remediation of Hexachlorocyclohexane in a Laboratory Scale Reactor", State level conference on Environmental Pollution and Management - Future Challenges, Department of Microbiology, JSS College of Arts, Commerce and Science, Mysore, India, July 29-30, 2005, presentation and abstract published in proceedings.

Manoj Kumar B., K.S. Lokesh, B.M. Krishna, Shiva Nagendra, S.M., Gowda, T.P.H., (2005), "Development of Computer Model to Predict the Spatio-Temporal Distribution of Petroleum Oil Slick Downstream of River Crossings", National Conference 'HYDRO-2005, Siddaganga Institute of Technology, Tumkur, 8-9 December, 2005, published in proceedings of *National Conference on Hydraulics and Water Resources*.

Manoj Kumar B., Chaya R., Gayathri H. V., Lavanya V., Swetha Shree, (2006), "Sequencing Batch Reactor as Wastewater Treatment Systems for Rural Communities", All India Seminar on "Providing Urban Facilities in Rural Areas (PURA)", organized by Institute of Engineers, Mysore Local Centre, Department of Rural Development & Panchayath Raj, GOK, Karnataka Land Army Corporation Ltd., Bangalore held at IEI, Mysore; 12th March 2006, paper published in the proceedings.

Manoj Kumar B., Chaya R., Gayathri H. V., Lavanya V., Swetha Shree, (2006), "Treatability Studies of Animal and Cage Washwater for Recycle and Reuse – A Case Study in Sri Chamarajendra Zoological Garden, Mysore", Technical Record of Student Projects Programme – 29th Series: 2005-2006 released in the Seminar Cum Exhibition of Selected Projects at PDACE, Gulbarga; 29-30, September 2006, publication.

Manoj Kumar B., Manasa P.Wodeyar, Asha Gururaj, (2009), "Performance Evaluation of Sequencing Batch Reactor (SBR) and Sequencing Batch Biofilm Reactor (SBBR) for the Treatment of Wastewater", presentation and full paper published in the proceedings of National Symposium on "Environmental Safety and

Management”, Vidyavardhaka College of Engineering, Mysore, India, 07th March 2009.

Manoj Kumar B., Ananya Vishwanath, (2009), “Application of Sequencing Batch Reactor for the Treatment of Coffee Pulping Wastewater”, presentation and full paper published in the proceedings of National Symposium on “Environmental Safety and Management”, Vidyavardhaka College of Engineering, Mysore, India, 07th March 2009.

Krishna B.M, Usha N.Murthy, **Manoj Kumar B**, Lokesh K. S., (2009), “Electrochemical Treatment of Distillery Wastewater Part -1 – COD removal and Energy Consumption”, presentation and full paper published in the proceedings of National Symposium on “Environmental Safety and Management”, Vidyavardhaka College of Engineering, Mysore, India, 07th March 2009.

Manoj Kumar B., (2010), “Rural Water Supply Schemes – Design Aspects, Future Challenges and Implications”, Invited Talk and Paper published in seminar proceedings of 2 days National Seminar on “Sustainability of Drinking Water Supply Systems with Special Reference to Multivillage Schemes (SDWMS 10)” organized by Dayananda Sagar College of Engineering, Bangalore, 22nd and 23rd March 2010.

Manoj Kumar B., Anusha M. and Varsha K. G., (2011), “Mathematical Modeling as a Tool in Environmental Management – a Case Study of Rivers”, Key note address and full paper published in the proceedings of National conference on “Environment Pollution and Management (EPM-2011)” held at Government College of Engineering, AURANGABAD-431005, Maharashtra State on 28th and 29th January 2011.

Manoj Kumar B. and J. Bhumika, (2011), “Generation, Handling and Management Practice of E-waste”, Published in the proceedings (ISBN – 978-81-920889-5-2; 2011 pp 15 – 21) of National Conference on “Latest Advancements in Civil Engineering (LACE – 2011)” held at RMK Engineering College, Kavaraipettai, Thiruvallur on 23rd April 2011.

Savitha Ulavi and **Manoj Kumar B.**, (2013), “Electrochemical Coagulation followed by Sequencing Batch Reactor for Treating Coffee Pulping Wastewater”, Presented and published in Conference Proceedings (ISBN: 978-81-925287-3-1) of National conference on Industrial Pollution and Control Technology (IPACT – 2013) organized by Annamalai University, Indian Institute of Chemical Engineers, Council of Scientific & Industrial Research and Min. of Earth Sciences, Gol, 14th – 15th March 2013.

Manoj Kumar B. and Sagar D Shresthi, (2012), “Model based analysis of Dissolved Oxygen in Cauvery River in Karnataka, India”, Presentation and abstract in the Fourth National Level Symposium “BIOCADENCE” held at KLESCET, Belgaum on 30th & 31st March, 2012.

Shwetha.H.G and **Manoj Kumar. B**, (2013), “Performance evaluation of existing coffee process wastewater treatment plant and treatability studies on coffee process wastewater”, Presented and published in Conference Proceedings of National Conference on “Advances in Engineering and Technology” NCAET2013 held on 7th November 2013 at Ekalavya Institute of Technology, Ummathur Chamarajanagar, Karnataka.

Ranjini T.H., Vishishtta Nagaraj and **B. Manoj Kumar**, (2014), “Nitrate Nitrogen Removal from Simulated Groundwater by Denitrification Process”, Presented and Published in the proceedings of the first annual conference on Innovations and Developments in Civil Engineering, ACIDIC-2014, NITK, Surathkal, India, between 19-20 May 2014.

Najmussahar H Mulla, B. M. Krishna and **B. Manoj Kumar**, (2015), “River Water Quality Model for Nonpoint Sources”, *Presented and published in proceedings of National conference on Water, Environment & Society (NCWES-2015) organized by Centre for Water Resources Institute of Science and Technology Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad, India.*

International Conferences and Symposia

Manoj Kumar B. and Sanjeev Chaudhari, (2003), “Evaluation of Sequencing Batch Reactor (SBR) and Sequencing Batch Biofilm Reactor (SBBR) for Biological Nutrient Removal from Simulated Wastewater containing Glucose as Carbon Source”, Presentation and Published in Conference Proceedings of First International Young Researchers Conference 2002 “European Platform of Doctoral Students and Young Scientists”, Cranfield University, Cranfield, United Kingdom, 9 - 10 September 2003; (Hosted by The School of Water Sciences Cranfield University and sponsored by Severn Trent Water and held in conjunction with ETNET – European Thematic Network of Education and Training for Environment-Water and its Specific Project).

Sanjeev Chaudhari and **Manoj Kumar B.**, (2004), "Sequencing Batch Reactor for Nutrient Removal from Wastewater", Indo-French Seminar on "Emerging Technologies for Water and Wastewater Management", IIT Delhi, India, 9-12 February 2004, presentation and full paper published in the conference proceedings.

Lokesh K.S., Anbazhagan and **Manoj Kumar B.**, (2004), "2-D Models for Prediction of Dissolved Oxygen in Mixing Zones of River – A Case Study", International Conference on Hydraulic Engineering: Research and Practice (ICON-HERP-2004), IIT Roorkee, Roorkee, India, 26-28 Oct. 2004, Published in proceedings.

Manoj Kumar B. and Sudevi Basu, (2005), "Recycle and Reuse of Domestic Wastewater after treatment in Laboratory Scale SBR", International Conference on Water and Health 05, Sri Jayachamarajendra College of Engineering, Mysore, India, 22-23 January, 2005, presentation and published in proceedings.

Manoj Kumar B., Shivaprakash B., and Manoharan V., (2005), "Study of Environmental and Economical Aspects in a Refinery towards Sustainable Development", International Conference on 'Environmental Management – ICEM 2005, Centre for Environment, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad; 28-30 October, 2005, Presented and Published in the proceedings.

Manoj Kumar B. and Sudevi Basu, (2006), "Evaluation of Bench Scale SBR for Removal of Nutrients from Domestic Wastewater", 'World Environmental and Water Resources Congress 2006', Sponsored by Environmental Water Resources Institute of the American Society of Civil Engineers, Omaha, Nebraska, USA, 21-25 May, 2006, Published in the Proceedings of the World Environmental and Water Resources Congress 2006 (ASCE Conf. Proc. / Volume 200 / Issue 40856 / WASTEWATER) Accepted for presentation at 'World Environmental and Water Resources Congress 2006'. **Scopus Indexed: 21100195301: Examining the Confluence of Environmental and Water Concerns - Proceedings of the World Environmental and Water Resources Congress 2006**

Manoj Kumar B., T.P. Halappa Gowda, K.S. Lokesh, M. Anbazhagan, (2007), "Dissolved Oxygen Prediction in Mixing Zones of River Cauvery Near Komarapalayam Town of Tamil Nadu", Platform presentation and Published in the proceedings of International Workshop on 'Integrated Water Resource Management – (IWRM 2007)', The Institution of Engineers (India) Centre, Bangalore, 5th February 2007.

Manoj Kumar B. and Sudevi Basu, (2007), "Treatment of Domestic Wastewater Using Lab-Scale Sequencing Batch Reactor for Reusable Purpose", Platform presentation and full paper Published in the conference proceedings of 'Third International Conference on Environmental Science and Technology', Sponsored by American Academy of Sciences, Houston, Texas, United States of America, August 5-9, 2007.

Manoj Kumar. B and Madhumati K. Hullur, (2008), "Biological Denitrification of Nitrate contaminated Groundwater in Anoxic-Sand Filter-Disinfection System", Presented and Published in the conference proceedings of International Water Association - 8th specialized conference on 'Small Water and Wastewater Systems' and 2nd specialized conference on 'Decentralized Water and Wastewater International Network', Tamil Nadu, India, 6-9th February 2008.

Manoj Kumar B., Sabike Noobia and Manonmani. H. K., (2008), "Biodegradation of different Plastic Packaging Materials in Soil Bioreactor", Research paper was presented and Published in Conference Proceedings of First international conference on "Technologies and Strategic Management of Sustainable Biosystems" organized by International Organization for Biotechnology and Bioengineering and Murdoch University, Australia, Fremantle, Perth, Western Australia July 6-9, 2008.

K. P. Jayaramu and **B. Manoj Kumar**, (2011), "Consumption Pattern in 24 x 7 Water Supply – A Case Study of a Demonstration Zone in Hubli City", Paper presented and abstract published in the Souvenir – Water 2011 of International Conference on "Sustainable Water Resource Management and Treatment Technologies: Water 2011", organized by National Environmental Engineering Research Institute (NEERI) Nagpur in association with Indian Water Works Association, International Water Association, UK and Indian Association for Environmental management on 19-21 January 2011.

J. Bhumika and **B. Manoj Kumar**, (2011), "Generation, Handling and Management Practice of E-waste", Published in the proceedings (ISBN –81-86862-41-2; 2011 Published by Oxford Publishing House, Kolkata, pp 582 – 589) of International Conference on Sustainable Waste Management, organized by Centre for Quality Management System, Jadavpur University and International Society of Waste Management, Air and Water, 9-11, November 2011 at Kolkata.

Manoj Kumar B., Savitha U Ullavi, Asha G, (2012), "Coffee Pulping Wastewater Treatment by Electro Coagulation Process", Presentation and Publication in conference proceedings of International Conference on Current Trends in Engineering and Management (ICCTEM 2012) held at Vidyavardhaka College of Engineering, Mysore, India on, July 12th - 14th 2012.

Anusha, M., **B. Manoj Kumar** and Srikantha H., (2012), "**Coffee Pulp Waste Management by Different Composting Techniques**", Presentation and Publication in proceedings (ISBN : 81-86862- 45 – 5, Published by Oxford Publishing House, Kolkata, pp 379 – 384) of International Conference on Sustainable Waste Management-Municipal, Industrial and Agricultural, organized by Centre for Quality Management System, Jadavpur University and International Society of Waste Management, Air and Water, July 30 – August 01, 2012 at Mysore **(Received Best Paper Award)**.

Shwetha.H.G and **Manoj Kumar. B**, (2014), "Performance Evaluation of Coffee Process Wastewater Treatment Plant and Treatability Studies of Coffee Process Wastewater", Presented and published in Conference Proceedings of First International Conference on "Recent Advances in Science and Engineering (ICRASE-2014)" held on 30th and 31st October 2014 at Bangalore, Organized by Department of Conferences, Institute for Studies on Recent Advances in Science and Engineering, Chikmagalur- Karnataka. Published by Excellent Publishing House Kishangarh, Vasant Kunj, New Delhi (ISBN: 978-93-83083-89-3) **(Received Best Paper Award)**.

K. S. Veethahavya, Rajath B.S., Sabike Noobia, **Manoj Kumar B.**, (2015), "Biodegradation of Low Density Polyethylene in Aqueous Media", Presented and Published in conference proceedings of 5th International Conference on Solid Waste Management, 5th IconSWM 2015 held at Indian Institute of Science, Bengaluru, India.

Manoj Kumar B., Sabike Noobia, Mythri S., (2016), "Studies on Biodegradation of Plastic Packaging Materials in Soil Bioreactor", Presented & published in "International Conference on Advanced Materials and Technology (ICMAT - 16) 2016" from Feb 26 - Feb 28, 2016 held at SJCE, Mysuru, Karnataka.

Mythri S., **Manoj Kumar B.**, (2016), "Development of Ion Exchange Media using Waste Ceramic and its Application in Water Treatment", Presented & published in "International Conference on Advanced Materials and Technology (ICMAT - 16) 2016" from Feb 26 - Feb 28, 2016 held at SJCE, Mysuru, Karnataka.

Vinutha M, Pushpa Tuppad, **Manoj Kumar B**, Rohini Pradeep, (2017), presentation on "Modified DEWATS system for Enhanced Nutrient Removal from Domestic Wastewater", in the International Conference on Environment, Health and Policy Nexus (ICEHPN2017) held at JSS University, Mysuru, India on 27th -28th July 2017.

Sadhana N., Pushpa Tuppad, **Manoj Kumar B.**, (2017), presentation on "Sequencing Batch Reactor for the Treatment of Municipal Landfill Leachate", in the International Conference on Environment, Health and Policy Nexus (ICEHPN2017) held at JSS University, Mysuru, India on 27th -28th July 2017.

Apoorva S Bunglae, Shivani Jain, Shreya A Trikannad, Shekara H R, **B. Manoj Kumar** (2017), Poster presentation on "Studies on Ceramic based Nanofilter for Pollutant removal from Textile Industry Wastewater", in the International Conference on Environment, Health and Policy Nexus (ICEHPN2017) held at JSS University, Mysuru, India on 27th -28th July 2017.

Journal Papers

Manoj Kumar B. and T.P. Halappa Gowda, "Rasayanika Visha Wasthugala Malinya Mathu Parisara" (Effect of Toxic Pollutants in Environment), "Kannada Adhyayana" a Kannada Bi-annual journal of Kannada University, Hampi, Karnataka.

Manoj Kumar B. and Sanjeev Chaudhari, (2003), "Evaluation of Sequencing Batch Reactor (SBR) and Sequencing Batch Biofilm Reactor (SBBR) for Biological Nutrient Removal from Simulated Wastewater containing Glucose as Carbon Source", **Water Science and Technology, Vol. 48, No. 3, pp. 73-79, (2003); IWA publishing (Scopus Indexed: Print-ISSN=02731223; 2017 Cite Score=1.34)**.

C.B. Shivayogimath, Sunita G, **Manoj Kumar B.**, (2009), "Role of Solid Acid Catalysts in Biodiesel Production", Journal of Environmental Science and Engineering (NEERI), Vol. 51, No. 3, July 2009, pp 207-212; (ISSN 0367-827 X), pp 207-212.

Krishna B. M., Usha N. Murthy, **Manoj Kumar B.**, Lokesh K. S., Savitha B., (2009), "Improvement of

BOD₅/COD ratio of Pre-treated Distillery Wastewater by Electrochemical Treatment Method”, International Journal of Environmental Research and Development, Vol. 4., No. 1, July-September 2009, pp 90 – 100.

Krishna B. M.; Usha N. Murthy; **Manoj Kumar B.**, Lokesh K. S., (2010), “Electrochemical Pretreatment of Distillery Wastewater using Aluminum Electrode”, *International journal Applied Electrochemistry; Vol. 40, No. 3, March 2010, pp 663-673 (ISSN 0021-891X CODEN JAELBJ), Publisher: Springer Netherlands (Scopus Indexed: Source record id= 25194; Print-ISSN=0021891X; E-ISSN = 15728838; 2017 Cite Score=2017=2.36; 2018=2.27, 2018=2.19).*

Krishna B. M., Usha N. Murthy, **Manoj Kumar B.**, Lokesh K. S., (2010), “Study of the Electrochemical Process for Distillery Wastewater Treatment”, *International Journal of Environmental Research and Development; Vol. 5, No. 1, July – September 2010, pp 134-140.*

Manoj Kumar B., Krishna B. M., Usha N. Murthy, Lokesh K. S., (2011), “Investigation of the Electrochemical treatment for distillery wastewater”, *Journal of Environmental Science and Engineering (NEERI). Vol 53, No. 2, April 2011 (ISSN 0367 – 827 X); pp 191-194.*

Manoj Kumar B., Savitha U Ulavi, H. S. Ramesh, G. Asha, and Pallavi R. (2012), “Pretreatment of Coffee Pulping Wastewater by Fenton’s reagent” *Indian Journal of Chemical Technology, Trade Science Inc., Vol. 19, No. 3, May 2012, pp. 213-217; CODEN: ICHTEU; ISSN: 0971-457X(Print); 0975-0991 (Impact Factor: 0.628) (Scopus Indexed: Source record id= 24098; Print-ISSN=0971457X; E-ISSN = 09750991; Cite Score: 2017=0.79; 2018=0.50, 2018=0.58).*

Savitha Ulavi, and **B. Manoj Kumar**, (2013), “Electrochemical Coagulation Followed By Sequencing Batch Reactor For Treating Coffee Pulping Wastewater”, *International Journal of ChemTech Research Vol.5, No.3, April-June 2013, pp 1387-1389 CODEN (USA): IJCRGG ISSN : 0974-4290.*

T. S. Mamatha, M. R.Nandini, T. N. Parinitha, S. Umesha, Rizbin Mehra, Pushpa Tuppad, **B. Manoj Kumar** and B. M. Krishna (2013), “Water Quality Monitoring and Trophic Status Classification of Karanji Lake, Mysore”, *International Journal of Current Engineering and Technology, Special Issue1 (Sept 2013) , pp 43-48, ISSN 2277 – 4106.*

Rajeshwari R and **B. Manoj Kumar**, (2014), “Evaluation of Intermittent Water Supply System and Design of 24 x 7 for a Residential Area in Mysore, Karnataka, India”, *International Journal of Informative and Futuristic Research, Vol. 1, Issue 11, July 2014, pp 163-173, (ISSN – 2347-1607).*

Jayaramu K P., **B. Manoj Kumar** and Prasanna Rashmi K K., (2014), “Customer Satisfaction with Domestic Water Supply in India – A Study in Hubli city”, *Journal of Environment and Earth Science (www.iiste. org) ISSN 2224-3216 (Paper) ISSN 2225-0948; Vol.4, No.9, 2014; pp 105-117.*

Rubeena, Savitha Ulavi and **B. Manoj Kumar**, (2014), “Algae Control using Rice Straw”, *International Journal of Civil Engineering & Technology (IJCIET); ISSN Print : 0976 – 6308; ISSN Online: 0976 – 6316; Volume 5, Issue 9 (2014), pp 43-48.*

Sahana B., Pushpa Tuppad, **B. Manoj Kumar** and K. P. Jayaramu, (2014), “Sediment Control at the Source for a Bulk Water Supply Scheme in Mysore, India”, *International Journal of Civil Engineering & Technology (IJCIET); ISSN Print : 0976 – 6308, ISSN Online: 0976 – 6316; Volume 5, Issue 9 (2014); Copyright ©IAEME, 2010, pp 43-48.*

Jayaramu K P and **B. Manoj Kumar**, (2014), “A Study of Non-Revenue Water in Intermittent and Continuous Water Service in Hubli City, India”, *Civil and Environmental Research, Vol 6, No. 10, 2014, pp 14-21, ISSN 2224-5790 (Paper) ISSN 2225-0514 (IC Impact factor value of this journal is 5.52).*

Jayaramu K P., Zachary Burt and **B. Manoj Kumar**, (2015), “A Study of the Consumption Pattern in a Continuous Water Service Demonstration Zone and Bulk Water Demand Forecasting for Hubli-Dharwad, India”, *Journal of Water, Sanitation and Hygiene for Development, Vol. 1, No. 1, Feb 2015, pp 201-212, IWA publishing (Impact Factor = 0.977).*

K.P. Jayaramu , Asavari Devadiga and **B. Manoj Kumar**, (2015), “Connecting the last mile: water access policy in action”, *Waterlines, Volume 34, Issue 2, May 06, 2015; IWA Publishing Journals DOI:*

[http://dx.doi.org/ 10.3362 /1756-3488.2015.015](http://dx.doi.org/10.3362/1756-3488.2015.015); Print ISSN: 0262-8104; Online ISSN: 1756-3488 (Scopus Indexed: Source record id= 02628104; Cite Score: 2017=0.31; 2018=0.72, 2018=0.80).

Najmussahar H Mulla, B. M. Krishna, **B. Manoj Kumar**, Mudassira Tahneet B. Lahori, (2015), "C Program for River Water-Quality Nitrogen Model", *International Journal for Scientific Research & Development*, Vol. 3, Issue 04, 2015, pp 640-642, ISSN (online): 2321-0613.

Kavya Shree M., B. M. Krishna, **B. Manoj Kumar**, (2015), "Assessment of Air Quality using Air Quality Indices for a Roadway Passing through Commercial Area in Mysuru City", *International Journal for Scientific Research & Development*, Vol. 3, Issue 04, 2015, pp 636-639, ISSN (online): 2321-0613, June 2015.

Murugesh Katti, B. M. Krishna, **B. Manoj Kumar**, (2015), "Design of Sewer Network for Vijayapur City Using SEWER Version 3.0 Software", *International Journal for Scientific Research & Development*, Vol. 3, Issue 04, 2015, pp 636-639.

Murugesh Katti, B. M. Krishna, **B. Manoj Kumar**, (2015), "Design of Sanitary Sewer Network Using SewerGEMS V8i Software", *International Journal of Science Technology & Engineering*, Vol. 2, Issue 01, July 2015, pp 254-258, ISSN (online): 2349-784X.

Asha, G. and **Manoj Kumar, B.**, (2015), "Comparison of Performance Evaluation of Sequencing Batch Reactor (SBR) and Sequencing Batch Biofilm Reactor (SBBR) for the Treatment of Domestic Wastewater", *International Journal of Current Research*, Vol. 7, Issue, 07, pp.18147-18150, July, 2015; ISSN: 0975-833X; <http://www.journalcra.com>.

Asha, G. and **Manoj Kumar, B.**, (2015), "Electrochemical Treatment of Coffee Pulping Wastewater using Aluminum Electrodes", *International Journal of Current Research*, Vol. 7, Issue, 08, pp.19526-19529.

Asha, G. and **Manoj Kumar, B.**, (2015), "Evaluation of Electrochemical Process for Treating Coffee Processing Wastewater using Aluminum Electrodes", *Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402, p- ISSN: 2319-2399; Volume 9, Issue 9 Ver. I (Sep. 2015), pp 01-09.

Basappa B Kori, **Manoj Kumar B.**, Shashikant R Mise, (2016), "Application of MIXPIPOX model to Karanja River water quality", *Procedia Earth and Planetary Science*, Vol. 11, (2015), pp 260 – 265 (Scopus Indexed: No 483; 19500157009Procedia Earth and Planetary Science18785220)

K.S. Veethahavyaa, Rajath B.S., Sabike Noobia, **Manoj Kumar B.**, (2016), "Biodegradation of Low Density Polyethylene in Aqueous Media", *Procedia Environmental Sciences*, Vol. 35, (2016) pp 709 – 713.

Manoj Kumar B., Sabike Noobia, Mythri S., (2016), "Studies on Biodegradation of Plastic Packaging Materials in Soil Bioreactor", *Indian Journal of Advances in Chemical Science*, Vol. S1, (2016), pp 297-299.

Mythri S., **Manoj Kumar B.**, (2016), "Development of Ion Exchange Media using Waste Ceramic and its Application in Water Treatment", *Indian Journal of Advances in Chemical Science*, Vol. S1, (2016), pp 294-296.

Poojashri, R.N., Thanushree, M. S., **Manoj Kumar, B.**, (2016), "Studies on Nutrient removal using Polyurethane Foam (PUF) in Moving Bed Bio reactor (MBBR)", *International Research Journal of Engineering and Technology*, Volume: 03, Issue: 08, Aug-2016, pp 1854 – 1872 (Impact Factor: 4.45).

Thanushree S., Lokesh K. S., **B. Manoj Kumar**, Jayaramu K, (2017), "Flow and pressure calibrations in the Kabini Command Areas Bulk Flow Water Systems – A means to Accomplish 24x7 Water Supply", *International Journal for Science and Advanced Research in Technology*, Vol. 3, Issue 8, Aug 2017, pp 179-182.

M. C Yashodha, **Kumar B. Manoj**, Niranjana Parinitha. T, (2018), Performance Evaluation and Treatment Optimization of ETP and STP- Review, *International Journal of Advance Research, Ideas and Innovations in Technology*, Volume 4, Issue 1, pp 503 – 509, ISSN: 2454-132X Impact factor: 4.295 (Scribd Indexed).

Bharath M, Krishna B M and **Manoj Kumar B**, (2018), "A Review of Electrocoagulation Process for Wastewater Treatment", *International Journal of ChemTech Research CODEN (USA)*, ISSN: 0974-4290, ISSN (Online):2455-9555, Vol.11, No.03, pp 289-302 **(Scopus Indexed)**.

Thanushree S., Lokesh K. S., **B. Manoj Kumar**, Jayaramu K, (2018), "Assessment of Non-Revenue Water (NRW) in Mysore City – A means to accomplish 24x7 Water Supply", *Journal of Indian Water Works Association*, Vol. 1, No. 2, April-June 2018, pp 108-113 **(17004 Scopus Indexed -0970275X)**

Vishishtta Nagaraj and **B. Manoj Kumar.**, (2018), 'Removal of fluoride from synthetic water using chitosan as an adsorbent', *Journal of Environmental Science, Toxicology and Food Technology*, Vol.12, pp 43-48 Impact factor: 3.462

Vishishtta Nagaraj and **B. Manoj Kumar.**, (2018), 'Removal of nitrate and hardness from synthetic water using chitosan as an adsorbent' *IJETSR*, Vol-5, pp 2394-3386.

Bharath M, Krishna B M, Manojkumar B, "A review of electrocoagulation process for wastewater treatment" *International Journal of ChemTech Research (IJCR)*, VolNo.11(03), pp289-302 (2018) (Scopus index:ISSN:0974-4290)

Najamussahar H Mulla, Krishna B. M, and Manoj Kumar B. (2019). "A review on water quality models: QUAL, WASP, BASINS, SWAT and AGNPS" *International journal of Scientific research in civil engineering (IJSRCE)*, ISSN:2456-6667, vol.3(4).

Najamussahar H Mulla, J Mohammed Nayaz Baig, B. M. Krishna, **B. Manoj Kumar**, Mudassira Tahneet B. Lahori (2019), "Estimation of Rate Constants for Nutrient Transformations", *International Journal of Recent Technology and Engineering*, ISSN: 2277-3878, Volume-8 Issue-3, pp 2437-2441 (Scopus Indexed: Scopus coverage years:from 2018 to 2019; <https://www.scopus.com/sourceid/21100889873>).

Najamussahar H Mulla, Krishna B. M, and Manoj Kumar B, Arunkumar K, MudassiraTahneet B. Lahori, "River water quality modeling using AutomatedQUAL2K", *international journal of interdisciplinary Global Studies*, ISSN No.2324-755X: (2020)

B. Manoj Kumar, Krupa Kadekoppa, Yashas S R., "Identification of Antibiotic Resistant Bacteria in Hospital Wastewater: A Case study of Super Specialty Hospital" Submitted to *Journal of Environmental Engineering Research – Under Review (Scopus Indexed and SCI Indexed)*.

Bharath M., Krishna B M., and **B Manoj Kumar.**, (2020), Degradation and Biodegradability improvement of the Landfill Leachate using Electrocoagulation with Iron and Aluminum Electrodes – A comparative study", *Water Practice and Technology – IWA publishing*, Scopus Indexed

R. Leela, Najamussahar H Mulla, B. M. Krishna, B. Manojkumar and B.P Shivakumar, (2021), "Application of automated QUAL2Kw for water quality modeling in the kabini river mysuru", *International Journal of scientific research in science and Technology*, Vol. No.8(4):pp130-136. Print ISSN:2395- 6011|online ISSN:2395602X (www.ijrst.com), (doi:<https://doi.org/10.32628/IJSRST>).(Journal URL : <https://ijrst.com/IJSRST217491>).

Book Chapter

Chapter Title: Waste Management Challenges Due to Tourism in-hilly Areas in India: A Case Study of Chamundi Hills, Mysore

Page: 309 to 320

Authors: Biswajit Debnath, Ananya Ghosh, Madhu Kumar, Azhar Shariff, **B. Manoj Kumar** and Sadhan Kumar Ghosh

Book Title: Sustainable Waste Management: Policies and Case Studies, 2020; Editor: Sadhan Kumar Ghosh; Publisher: Springer Nature Singapore Pte Ltd, Singapore, 2020.

eBook ISBN: 978-981-13-7071-7; Hardcover ISBN:978-981-13-7070-0; DOI: 10.1007/978-981-13-7071-7

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	<u>Total Publications</u>
National Journal	09
International Journal	27
National Conference	18
International Conference	15
Paper presentation	33
Book Chapter Publication	02

Reviewer

- ❑ Reviewer for International Journal “Biotechnology and Bioengineering”, published by John Wiley and Sons, reviewed five research papers.
- ❑ Reviewer for International Journal of Environment and Pollution (*Special Issue of Recent research and development in environmental science and engineering in China*).
- ❑ Reviewer for International Journal “Bioresource Technology” published by Elsevier Publications.
- ❑ Reviewer for International Journal “Journal of Applied Electrochemistry” published by SpringerLink Publications.
- ❑ Reviewer for MOEF research proposals, Gol.
- ❑ Reviewer for International Journal “Asian Journal of Water, Environment and Pollution”
- ❑ Reviewer for “International Journal of Earth Sciences & Engineering” (ISSN 0974-5904)
- ❑ Reviewer for Research project report “Inventorisation of Water Bodies in Bengaluru Metropolitan Area” prepared by Environmental Management & Policy Research Institute, Department of Forest, Ecology & Environment, Government of Karnataka, Bangalore (2017).
- ❑ Reviewer for Research project report “Assessment of Current Status of Cauvery River in Karnataka and declaration of 300 m buffer zone on both sides of the river as Eco-sensitive zone” prepared by Environmental Management & Policy Research Institute, Department of Forest, Ecology & Environment, Government of Karnataka, Bangalore (2017).

Research Papers Presented in International Conferences Outside India

- ❑ Presented research paper in International Water Association young researcher’s conference at Cranfield University, UK.
- ❑ Presented research paper in International Conference on Environmental Science and Technology held at Houston, Texas, USA.
- ❑ Presented research paper in International conference on “Technologies and Strategic Management of Sustainable Biosystems” at Perth, Western Australia.

SEMINARS/ WORKSHOPS/ CONFERENCES ATTENDED

Attended around 54 seminars/ workshops/ conferences (both National and International)

GUEST LECTURES/ TRAINING/ KEY NOTE ADDRESS

Participants of ITN and UNESCO Programmes conducted at Sri Jayachamarajendra College of Engineering, Mysore, 1991 and January 1993

Training the working professionals in the Workshop on “Design of Distribution System for Piped Water Supply Schemes” taken under Project Advisory Group, NYRMALYA DANIDA Project at Nodal Centre, JSS Mahavidya Peetha, SJCE Campus, Mysore, 06th – 10th December 1993.

Central Public Health Environmental Engineering Organisation, Government of India sponsored Launching Training Workshop on “Computer Aided Design for Water Treatment Plant” held at Centre for Environmental Science and Technology, Sri Jayachamarajendra College of Engineering, Mysore, 08th - 13th August 1994.

Refresher Course on “Water Quality Monitoring and Surveillance” held at Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, October, 1994; 1995; 1996; 1997; 1998; 1999, 2005

Course contributor and delivered lecture/ demonstration of “Computer Application in Water Distribution System” for Short Term Course on “Computer Applications in Civil Engineering” at Siddaganga Institute of Technology, Tumkur for working engineers of KPWD, 08th June 1994.

Trained the Kerala Water Authority Engineers on “Computer Application in Network Analysis and Water Treatment Plant Design” at Kochi, Kerala, 19th Jan to 26th Jan, 1998.

Training Rural Water Supply Engineers, Government of Andhra Pradesh on “Rural Sanitation Facilities” at Vizianagaram, Andhra Pradesh, 23rd - 28th February 2004.

Guest Lecture on “Micro-organisms in Waste Treatment”, in the two-day workshop on ‘Application of Biotechnology for the Sustainable Environmental Pollution Management’ held at Sri Siddhartha Institute of Technology, Tumkur, sponsored by Department of Technical Education, Government of Karnataka and Visvesvaraya Technological University, Belgaum, 23rd – 24th September, 2005.

Training programmes on “Rural Water Supply and Distribution” for working professionals of Zilla Panchayat Engineers at Department of Civil Engineering, Basaveshwara Engineering College, Bagalkot, under Continuing Education Programme, 10th - 11th March 2006.

Invited Lecture on “Sequencing Batch Reactor for Wastewater Treatment in Rural Environment” in the workshop ‘PURA’, at Institute of Engineers, Mysore Local Centre, 12th March 2006.

Lecture on “Online Contamination Monitoring System – Rationale and Contamination Problem”, in the 5-day Workshop on “Safety and Security of Environmental Facilities”, sponsored by TEQIP of World Bank, Government of India, at Sri Jayachamarajendra College of Engineering, Mysore, 4th – 8th September, 2006.

Continuing Education Programme training programme on “Design and Maintenance of Rural Water Supply Scheme” for the working professionals, organized by Department of Civil Engineering, SDM College of Engineering and Technology, Dharwad, 13th - 14th February, 2007.

Training programmes on “Rural Water Supply and Distribution” and “Computer Applications in Water Distribution”, “Water Treatment Plant Design” and “Wastewater Treatment Design” for working professionals and Engineers of PWD, Irrigation Department, Zilla Panchayat at Engineering Staff College, Krishnarajasagar, Mysore, 2006 – 2010.

Invited talk on “Sequencing Batch Reactor for Domestic Wastewater Treatment and its Reuse” as part of World Water Day at The Institution of Engineers, Mysore, 21st March 2008.

Delivered lectures in CEP training programmes on “Advanced Wastewater Treatment Systems” for working professionals of Zilla Panchayat Engineers at Department of Civil Engineering, UBDT College of Engineering, Davanagere, under Continuing Education Programme, 23rd September 2008.

Invited lecture on “Water Quality and Wastewater Quality Parameters and line of Treatment” on 21st July 2009 for the working professionals (KERS course) at University BDT College of Engineering, Davangere.

Delivered lectures in CEP training programmes on “Computer Application in Rural Water Supply Systems” for working professionals of Zilla Panchayat Engineers, PWD, RDED etc., at Department of Civil Engineering, UBDT College of Engineering, Davanagere, under Continuing Education Programme, 21st July 2009; at Basaveswar College of Engineering, Bagalkot, 18-19th August 2009.

CPHEEO (Ministry of Urban Affairs and Employment, Government of India, New Delhi) Sponsored Refresher Course on “Computer Application for Water Distribution System Management and Water Treatment Plant Design” for Working Professionals of various Government Organizations like PWD, State Pollution Control Boards, CPWD, PHE, Zilla Parishad’s etc., Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, Mysore, 1994-1999, 2004-2007, 2009.

CPHEEO (Ministry of Urban Affairs and Employment, Government of India, New Delhi) Sponsored Three months short term courses in Environmental Engineering for Working Professionals of various Government Organizations like PWD, CPWD, PHE, Zilla Parishad’s etc., 1995-1999, 2004-2007, 2008.

Invited talk on “Impact of wastewater on surface water bodies” and “SBR for domestic wastewater treatment and reuse” in the plenary session of Two days State Level Workshop on “Environmental Pollution and Preventive Measures” held at Amrutvahini College of Engineering, Sangamner, Maharashtra (17th February 2010).

Invited talk on “Rural Water Supply Schemes – Design Aspects, Future Challenges and Implications” in the 2 days National Seminar (World Water Day) on “Sustainability of Drinking Water Supply Systems with Special Reference to Multivillage Schemes (SDWMS 10)” organized by Department of Civil Engineering, Dayananda Sagar College of Engineering, Bangalore, 22nd and 23rd March 2010.

Key note address – “**Mathematical Modeling as a Tool in Environmental Management – a Case Study of Rivers**” in the National conference on “**Environment Pollution and Management (EPM-2011)**” held at Government College of Engineering, Aurangabad Station Road, AURANGABAD-431005, Maharashtra State on 28th and 29th January 2011.

Resource Person for 3-day Faculty Development Programme on “Re-engineering of Environmental Impact Assessment Process in India” sponsored by Vision Group, Department of Science and Technology, Govt. of Karnataka, Bangalore and Visvesvaraya Technological University, Belgaum held at Bapuji Institute of Engineering & Technology, Davanagere. Presented lecture on “**River Water Quality Modeling a Tool in Environmental Impact Assessment**” for the Engineering College Faculty on 05th March 2011.

Resource person in CEP training programme on “Computer Application in Rural Water Supply Systems” for working professionals of Zilla Panchayat Engineers, PWD, RDED etc., at Department of Civil Engineering, Basaveswar College of Engineering, Bagalkot, 23-24th August 2011.

Resource person in the international workshop on “Wastewater Treatment Technologies” for working professionals and academicians at Department of Civil Engineering, The National Institute of Engineering, Mysore, India held between December 7-9 2011. Title of the topic is “Water Quality Issues and Modelling”. Workshop was jointly organized by The National Institute of Engineering, Mysore, India and McMaster University, Hamilton, Canada in association with Karnataka State Pollution Control Board, Bangalore, India.

Resource Person for the National Science Day 2012 - **Clean Energy Options and Nuclear Safety** programme and made presentation on the topic “Clean Energy” at the Cauvery Degree College, Gonikoppal on 18th Feb 2012.

Resource person for Common Foundation Course for the probationary AEEs on the topic “Water, Sanitation & Environment: Growing demands & PPP initiatives: Few studies” at the Administrative Training Institute Mysore on 7/4/2012.

Invited talk on “*Online Contaminant Monitoring System – Rationale and Contamination Problem*” in the Continuing Education Programme on “Operation and Maintenance of Environmental Facilities” at the

Department of Studies in Civil Engineering, University B.D.T. College of Engineering, Davanagere on 10-10-2013.

Invited talk on "Generation, Handling and Management Practices of E-Waste – A Case Study of Mysore" in the Two days workshop on **"Solid Waste Management in Urban Centers"** organized by Department of Civil Engineering, University Visvesvaraya College of Engineering, Bangalore, 21st October 2013.

Key note speaker – "Water Quality Issues and Modelling" in the International Conference on "Recent Innovations in Civil Engineering" held during 25-27 Oct, 2013 at Poojya Doddappa Appa College of Engineering, Gulbaraga, India.

Guest Lecture on the theme "Small Islands and Climate Change – Raise your voice Not the Sea Level....." as part of World Environment Day Celebrations at Rare Materials Plant, Bhabha Atomic Research Centre, Mysore on 05th June 2014.

Special Lecture on "Computer Applications in Environmental Engineering", at Department of Civil Engineering, BIET, Davangere, on 16/12/2014

Expert Lecture on "Applications of Software in Environmental Engineering" at Department of Civil Engineering, BMS College of Engineering, Bangalore, on 18/12/2014

Resource person for one-day workshop on "Modern Trends for Effective Management of Municipal Solid Waste" held on 14th November 2015 at Department of Civil Engineering, Bapuji Institute of Engineering & Technology, Davangere and made presentation on "Modern Approach for Treatment and Disposal of Municipal Solid Waste".

Resource Person for one day workshop "Forest Law and Eco Tourism" held at Dandeli-Anshi Tiger Reserve and made presentation on "Waste Management in Resorts – Protecting Our Shared Environment" conducted by Conservator of Forests & Director, Department of Forests, Government of Karnataka, on 27.11.2015.

Resource Person for Orientation Programme for the Engineers of ULB functionaries, under "AMRUT" mission of MoUD on "Construction, Maintenance and Improvement of Storm Water Drains to Eliminate Flooding, Innovations & Good Practices in Storm Water Drains in Urban Planning with Case Studies", on 27 06.2016 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for Orientation Programme for the Engineers of ULB functionaries, under "AMRUT" mission of MoUD on "Construction, Maintenance and Improvement of Storm Water Drains to Eliminate Flooding, Innovations & Good Practices in Storm Water Drains in Urban Planning with Case Studies", on 04, 19 and 26 08.2016 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for training Programme (Capsule-2) for the Engineers of ULBs/KUWS & DB & KUIDFC ULBs under "AMRUT" mission of MoUD on "Applications of softwares in water supply and Sewerage projects", on 14 & 15.11.2016 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for training Programme (Capsule-2) for the Engineers of ULBs/KUWS & DB & KUIDFC ULBs under "AMRUT" mission of MoUD on "Applications of softwares in water supply and Sewerage projects", on 14 & 15.11.2016 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for the Capsule-02 training Programme (Capsule-2) for the Environmental Engineers of ULBs under "AMRUT" mission of MoUD on "Water Supply System (O&M) and Technology Options for Reclaiming the Water, Reuse of Treated Water", on 23.11.2016 & 06.12.2016 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for the Capsule-03 training programme for the Environmental Engineers of ULBs under "AMRUT" mission of MoUD on "Technical Aspects on Municipal Sanitary Landfill Site and Regional Approaches", on 28.02.2017 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Resource Person for 2 days workshop on Industry Pollution control held at Sahyadri College of Engineering & Management, Mangaluru and made presentation on "Water & Air Pollution Modeling for prediction of Impacts".

Invited speaker for the International Conference on "Environment, Health and Policy Nexus (ICEHPN 2017)" organized by JSS University, Mysuru, India held between 27th and 28th July 2017 and made presentation on "River Water Quality Modeling – A Predictive Tool in Environmental Impact Assessment".

Resource person and presented a lecture on "Biological Nutrient Removal from Wastewater using Sequencing Batch Reactor" (13th Nov. 2017) in Two week Faculty Development programme sponsored by AICTE, New Delhi on "Present Scenario of Treatment of Waste in India: Challenges, Issues and New Techniques of Treatment" organized by the Department of Civil Engineering during 13th November 2017 - 25th November 2017 at Sanjivani College of Engineering, KOPARGAON, Ahmednagar, Maharashtra.

Key note speaker in the Science conference in connection with National Science Day Celebrations: NSDC 2018 organised by Karnataka Science & Technology Academy, Department of IT & BT and Science & Technology, Mangalore University at Field Marshal K M Cariappa College, Madikeri, Kodugu held on 28th February 2018.

Resource Person for the Integrated Capacity Building for all Missions Under SBM Capsule-1 training programme for the Environmental Engineers of ULBs under "AMRUT" mission of MoUD on "Good practices in Water and Waste Water Management and re-use" on 19.09.2018 at State Institute of Urban Development (SUID), ATI Campus, Mysore.

Invited speaker on the occasion of Engineer's Day organized by Indian Water Works Association, Mysuru Centre in Association with Karnataka Urban Water Supply & Drainage Board and Vidyavardhaka College of Engineering, Mysuru held on 29th September 2018 at Vidyavardhaka College of Engineering, Mysuru, Technical lecture on "Biological Nutrient Removal from Wastewater in SBR".

Resource person and delivered talk on "Prediction of Models for EIA" in Three Days Faculty Development Programme on "Recent Trends in Environmental Impact Assessment – Process & Procedures (RTEIA-PP)" held between 17th to 19th January 2019 organised by P G Programme in Environmental Engineering, Department of Civil Engineering, Bapuji Institute of Engineering and Technology, Davangere.

Resource person and delivered talk on "Environmental Concerns in Textile Industries" in National Workshop on "Pollution Control in Textile Industries" held at MLV Textile and Engineering College, Bhilwara, Rajasthan on 30th March 2019.

Invited talk in the Sensitization workshop "GATE 2020 & Employability Skill Training" for final year students at MLV Textile & Engineering College, Bhilwara, Rajasthan on 30th March 2019.

Invited talk in the Sensitization workshop "GATE 2020 & Employability Skill Training" for final year students at MLV Textile & Engineering College, Bhilwara, Rajasthan on 30th March 2019.

Technical talk on "Advanced Wastewater Treatment Systems" organized in connection with 61st birthday celebration of Dr. Rajendra Singh organized by department of Civil Engineering, Vidyavardaka College of Engineering on 17.08.2020.

Invited talk on "Safety – Part of Environmental clearance in EIA" in 1 week online FDP on Quality control and safety in polymer and allied industries, organized by Department of Polymer Science and Technology, SJCE, Mysore on 30.07.2020

Resource person on the occasion of World Environment day – Ecological restoration A case study of Rivers for restoration on 5th July 2021 at UBTD College of Engineering, Davanagere

Resource person and delivered online lecture on "Level of Treatment to wastewater based on river water quality predictions using mathematical models" at REVA University on 17th July 2021

Resource person and delivered lecture on “Advanced wastewater treatment for utility of treated wastewater for secondary purposes” in the event organized by ICI (Indian Concrete Institute) and Sahyadri College of Engineering and Management, Mangalore on 18th June 2021

Resource person on the occasion of World Environment day – delivered online lecture on “Ecological restoration (Rivers)” at Guru Nanak Dev Engineering College, Bidar on 10th June 2021

Invited talk on “Environmental Concerns” in Induction Program at JSS Women’s Polytechnic, Mysore on 12 October, 2021

Invited talk on “Advanced Wastewater Treatment” organized by Indian Waterworks Association, Mysore Chapter at Maharaja Institute of Engineering and Technology, Mysore

Technical talk on “Treatment Options for Wastewater Generated from Infrastructure Projects” in the Faculty Development Program on Facets of sustainable growth in infrastructure Development organized by Department of Construction Technology Management, Sri Jayachamarajendra College of Engineering held between 01.03.2021 to 06.03.2021.

Technical Talk on “Environmental Impact Assessment” for KSPCB officers on 03.06.2022 organised by State Institute of Urban Development, Mysore.

Coordinator/ Organising Committee Member:

- ❑ Involved in organizational activities of ‘Water & Health (WAH-2005)’, International Conference held at Sri Jayachamarajendra College of Engineering, Mysore, 22-23 January, 2005.
- ❑ **Organizing committee member and Chaired two technical sessions in the International Conference on Environmental Science and Technology Sponsored by American Academy of Sciences, Houston, Texas, United States of America, August 5-9, 2007.**
- ❑ Organizing Secretary - TEQIP sponsored INS-SJCE seminar on “Industrial Applications of Radioactivity and Ionising Radiations” held on 22nd November 2008 at Sri Jayachamarajendra College of Engineering, Mysore.
- ❑ Coordinated the exhibition at Jayanthi Mahotsava of Adi Jagadguru Sri Shivarathreeswara Shivayogigalu held at Pandavapura from 25th to 31st December 2008.
- ❑ Coordinated the exhibition of annual car festival “Adi Jagadguru Sri Shivarathreeswara Shivayogi Mahaswamiji’s Jathra” at Suttur Srikshestra held between 21st to 27th January 2009. Sri Jayachamarajendra College of Engineering and associated industries (Bosch Rexroth, Bosch Mico, IndoFarm Tractors, Silicon Microsystems and Department of Atomic Energy) Stall won the 2nd Prize for best exhibiting stall.
- ❑ Lead a team of faculty to Indira Gandhi Centre for Atomic Research (IGCAR), the second largest establishment of the Department of Atomic Energy, at Kalpakkam, Chennai for interaction with Dr B. Venkataraman, Head, Quality Assurance Division and visited other departments of IGCAR on 9th January 2009.

- ❑ Organized Institution of Engineers workshop on “Integrating Sustainability into Existing Engineering Curricula in Karnataka” on 23rd April 2010 at SJCE, Mysore sponsored by Institute of Climate Change and Sustainability, University of Mysore, The Institution of Engineers (India), Mysore local centre; Indian National Commission for Cooperation with UNESCO; AICTE and Sri Jayachamarajendra College of Engineering, Mysore, India.
- ❑ Organized a talk on “The Future of Civil Nuclear Energy: An Empirical Assessment” by Professor Paul Nelson, Emeritus Professor of Computer Science, Nuclear Engineering and Mathematics, Texas A&M University, and Associate Director for International Programs, Nuclear Security Science and Policy Institute, USA; at Sri Jayachamarajendra College of Engineering, Mysore in collaboration with Indian Nuclear Society (Mysore) on Saturday, the 28th August 2010.
- ❑ Coordinated the exhibition of annual car festival “Adi Jagadguru Sri Shivarathreeshwara Shivayogi Mahaswamiji’s Jathra” at Suttur Sriksheetra held between 30th January to 04th February 2011. Sri Jayachamarajendra College of Engineering and associated industries Stall won the 1st Prize for best exhibiting stall.
- ❑ Organising Committee member – One day technical seminar on Nuclear Energy-Environment and Safety (NEEDS – 2012) held on 3rd March 2012 at Department of Studies in Physics, University of Mysore organized by University of Mysore and Indian Nuclear Society (Mysore).
- ❑ Organising Committee member – Two day 3rd State Level Science and Technology Conference on “Role of Science & Technology in Rural Development” organized jointly by KSCST, Vision Group on Science & Technology: DST-GOK and SJCE held on 31st July and 1st August 2012 at SJCE Mysore.
- ❑ Organising Committee member – One day technical seminar on “ATOMS in the service of the nation” held on 13th October 2012 at The Institution of Engineers (India), Mysore Local Centre, Mysore; organized by Sri Jayachamarajendra College of Engineering, Mysore, The Institution of Engineers (India), Indian Nuclear Society (Mysore) and Board of Research in Nuclear Sciences, Mumbai.
- ❑ Organised a workshop on “GIS and Modelling – Applications in Environmental Engineering” under TEQIP-II at Sri Jayachamarajendra College of Engineering, Mysore on 28th and 29th March 2014.
- ❑ Organised a finishing school on “Environmental Impact Assessment” under TEQIP – II sponsorship held between 8th April 2014 to 11th April 2014 in the Department of Environmental Engineering, SJCE, Mysore.
- ❑ Organising committee member for the three day workshop on “IMPACT OF URBAN INFRASTRUCTURAL FACILITIES ON ENVIRONMENT” organized by Department of Civil Engg., Sri Siddhartha Institute of Technology, Tumkur held between 29th - 31st October 2015.
- ❑ Coordinator – Finishing School on “Environmental Auditing and EHS”, conducted during January to April 2016 at Sri Jayachamarajendra College of Engineering, Mysuru.

- ❑ Organised 3-day Indo-US workshop on “Hazardous Materials Management” under TEQIP – II sponsorship held between 25th to 27th October 2016 in the Department of Environmental Engineering, SJCE, Mysore.
- ❑ Coordinator – MHRD sponsored GIAN course on “Solid Waste Management – Feasibility of Technology Transfer” organized by the Department of Environmental engineering, Sri Jayachamarajendra College of Engineering, Mysuru from February 10 – 20, 2017.
- ❑ Organizing committee member and Panelist for Panel discussion in International Conference on “Environment, Health and Policy Nexus (ICEHPN 2017)” organized by JSS University, Mysuru, India held between 27th and 28th July 2017.
- ❑ Chief guest in the Science conference in connection with National Science Day Celebrations : NSDC 2018 organised by Karnataka Science & Technology Academy, Department of IT & BT and Science & Technology, Mangalore University at Field Marshal K M Cariappa College, Madikeri, Kodugu held on 28th February 2018.
- ❑ Organised TEQIP III sponsored Symposium on “Water Safety and Sanitation Value” in association with IWWA, Mysore Chapter held at Sri Jayachamarajendra College of Engineering on 16 January 2018; Speakers: Dr. Zachary Burt and Dr. Emily Kumpel from USA.
- ❑ Organised IWA webinar on “Recovery of byproducts/ untapped resources and Issues & challenges in Sludge Management of Sewage Treatment Plants”, on 15th September 2020
- ❑ Organised 2-day Australia India Water Center workshop on “Water Conclave – for a better future” 15-16 March 2021

Others

- ❑ Visit to Environmental Technology Centre, Murdoch University, Perth, Western Australia.
- ❑ Visit to Griffith University to meet Dr. Sunil Herat, Faculty in Environmental Engineering, Master of Engineering (Environmental) & Graduate Certificate in Waste Management (Convener), Griffith School of Engineering, Griffith University, Brisbane, Queensland 4111, Australia.
- ❑ Involved in the preparation of National Board of Accreditation (NBA) PROFORMA & syllabus (autonomous) preparation of Department of Environmental Engineering.
- ❑ Involved in syllabus (autonomous) preparation of Department of Environmental Engineering.
- ❑ Third Party Inspection of Bore well Drilling works of Mysore city corporation (MCC letter # MCC/VVWW/3720/2007-08 dated 04.09.2010).

- ❑ Chair Person for Presentation competitions in “International Ozone Day Programme – 2010” held at Regional Museum of Natural History, Mysore, India on 17th September 2010.
- ❑ Chairman for Technical session in the International Conference on Current Trends in Engineering and Management (ICCTEM – 2012), 12-14, July 2012 organized by Vidya Vardhaka College of Engineering, Mysore, India.
- ❑ Chairman for Technical session in the International Conference on “Recent Innovations in Civil Engineering” held during 25-27 Oct, 2013 at Poojya Doddappa Appa College of Engineering, Gulbaraga, India.
- ❑ Chairman for Technical session in the International Conference on Current Trends in Engineering and Management (ICCTEM – 2014), 2014 organized by Vidya Vardhaka College of Engineering, Mysore, India.
- ❑ Coordinator for the Post Graduate Diploma in Non Destructive Testing.
- ❑ Procurement coordinator for TEQIP-II programme of SJCE.
- ❑ Coordinator for TEQIP-III programme of SJCE.

AREA OF SPECIALIZATION

Monitoring & Mathematical Modeling of River Water Quality Systems; Computer Applications to design of Water Supply and Sewerage systems, Advanced Water & Wastewater Treatment; Solid & E-waste Management.

COUNTRIES VISITED

United States of America, United Kingdom, Australia, United Arab Emeritus, Malaysia, Singapore.

(Dr. B. MANOJ KUMAR)