



DR. MOIRANGTHEM JIBAN SINGH

**Assistant Professor
Department of Environmental Science
University Of Delhi**

EDUCATION:

- **2012:** Ph.D in Environmental Science, Bangalore University, Karnataka.
“Impact Assessment of Sewage Network on groundwater regime of Hebbal and Challaghatta valley, Bangalore, using Environmental Isotope Techniques”
- **2011:** PG Diploma in Industrial Safety, Kuvempu University, Karnataka.
“Concentration on Personal Protective Equipment’s in Namma Metro Construction Worksites, Bangalore”
- **2007:** M. Sc. in Environmental Science, Kuvempu University, Karnataka.
“Phytoremediation of Industrial Effluent by Aquatic Macrophytes”
- **2005:** B.Sc. in Computer Science, Sahyadri Science College, Karnataka.
“Computer Application in Chemistry”

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EXPERIENCE: 13+ Years

9 Years (Industrial-R&D)
4+ Years (Teaching-PG/UG)

AREAS OF WORKED/INTEREST:

- Environmental Isotopes Techniques in Hydrology
- Research and Development for Pollution Control
- Performance Evaluation of GPIs, STPs, CETPs, ETPs, Drains, Ashrams, Hotels and Apartments
- Environmental Impact Assessment on Various Projects
- Industrial Safety Assessment and Designing
- Biomedical Waste Management (Training, Inspection and Consulting)
- Groundwater Monitoring and Modelling
- Cultural Impeccability of Human and Floras

SUBJECTS TAUGHT:

- Environmental Studies and Science, Environmental Sustainability and Sustainable Development
- Ecosystems
- Natural Resources, Indian Environmental Issues,
- Environmental Pollution
- Environmental Issues (Local and Global) and policies
- Biodiversity and Conservation
- Human Communities and Environment
- Waste Monitoring and Management
- Industrial Safety
- Environmental Chemistry
- Water and Water Resources
- Land and Soil Conservation and Management
- Natural Disaster Management
- Ethnobotany
- Environmental Impact and Risk
- Environmental Economics

RESEARCH:

1. As Co Project Investigator, “Cultural Impeccability of Tribals of Himachal Pradesh since Vedic Period with reference to their Flora’s”, Sponsored by ICSSR, Delhi.
2. As an Area Expert, “Comprehensive EIA & EMP Studies for the Shivansamudhra Run of the River Project 345 MW Across Cauvery River, Chamaraj Nagar District, Karnataka Cat-A”, for 3 years funded by Dept. of Karnataka Power Corporation Ltd., Bangalore.
3. As an Area Expert, “Comprehensive EIA & EMP Studies for the Gundia Hydro Power Project- 200 MW Across Gundia River, Hassan District, Karnataka Cat-A” for 3 years funded by Dept. of Karnataka Power Corporation Ltd., Bangalore.
4. As an Area Expert, “Rapid Environment and Social Impact Assessment - Resia and Environmental Management Plan – ESMP for 6.00MW Behave Small Hydro Project”, for 3 years funded by M/S Karthik Energy Resource Pvt. Ltd. - KERPL.
5. As an Area Expert, “Environment and Social Impact Assessment – ESIA Study of the Purposed Turavanuru Wind Power Project – 150MW” for 3 years funded by Guttaseema Wind Energy Company Pvt. Ltd. Bangalore.
6. As an Area Expert, “Environment and Social Impact Assessment - ESIA and Environmental and Social Management Plan – ESMP for Shunmuka Subramanya Mini Hydel Scheme - 10.00MW Behave Small Hydro Project”, for 3 years funded by M/S Perla Hydro Power Pvt. Ltd. – PHPL.

PUBLICATIONS:

1. **Jiban Singh et al., (2024).** “Cultural Impeccability of Himachali Tribes with their Herbs from the Ancient Period- A Case Study”, Annals of the Bhandarkar Oriental Research Institute, CV (5):150-161, ISSN: 0378 - 1143 (PO), Impact Factor: 6.5, UGC Group 1.
2. **Jiban Singh et al., (2023).** “Phytoconstituents from the Roots and Rhizomes of Gentiana Kurroo and their Antioxidant Potential”, Journal of the Asiatic Society of Mumbai, UGC Care Group 1 Journal, 97 (3): 105 -111, Impact Factor: 4.27, ISSN: 0972-0766 (O).
3. **Jiban Singh et al., (2022).** “Cultural Impeccability of Himachali Tribes and Their Floras in Chamba District – A Case Study”, International Journal of Applied Research, 8 (11): 210 – 216, Impact Factor: 8.4, ISSN: 2394 – 5869.
4. **Jiban Singh et al., (2022).** “Efficient MnO₂ decorated graphitic carbon nitride-based nanocomposite for application in water purification”, ELSEVIER (Material Today: Proceedings), 12 (11.1): 155-158, UGC Approved Journal No. 49321, Impact Factor: 3.2, ISSN: 0976-6650 (O).
5. **Jiban Singh et al., (2022).** “Exploration of Medico-Ethno Biodiversity in the Swami Shraddhanand College Campus, University Of Delhi and Their Application in Healthcare – A Case Study”, Anvesak, 54 (1.2): 135-144, UGC Care Group 1 Journal, Impact Factor: 5.5, ISSN: 0378-4568 (O).
6. **Jiban Singh et al., (2021).** “The Covid-19 3rd Wave Predictions: Fact and Fantasy: A Critical Analysis”, Shodh Drishti (An International Peer Reviewed Refereed Research Journal), 12 (11.1): 155-158, UGC Approved Journal No. 49321, Impact Factor: 5.427, ISSN: 0976-6650 (O).
7. **Jiban Singh et al., (2021).** “Seohara: A Catchment Area with High Biochemical Oxygen Demand Discharged into River Ramganga, Uttar Pradesh – A Case Study” GIS Science Journal 8(6): 2098-2104, Impact Factor: 6.1, UGC No.: 342190, ISSN: 1869-9391 (O).
8. **Jiban Singh et al., (2021).** “Categorisation of Drain on the Basis of Biochemical Oxygen Demand: A Novel Approach” UGC Approved Journal No. 48416, Interdisciplinary Journal of Contemporary Research 8(6.1): 33-40, Impact Factor: 2.314, ISSN: 2393-8358 (O).
9. **Jiban Singh et al., (2021).** “Projected Level of Pollution in Future on Ramganga River: A Case Study” Reg. No. 694/2009-10, Anukriti (An International Peer Reviewed Refereed Research Journal), 10(11): 23-30, Impact Factor: 5.029, ISSN: 2250-1193 (O).
10. **Jiban Singh et al., (2020).** “Hazards and Risks due to Road Traffic Noise Level at Majestic, Bengaluru: A Case Study” Reg. No. 694/2009-10, Anukriti (An International Peer Reviewed Refereed Research Journal), 10(11): 113-121, Impact Factor: 5.029, ISSN: 2250-1193 (O).
11. **Jiban Singh et al., (2018).** “Drains Contaminates Ganges”, International Journal of Research in Environmental Science 4(3): 30-40, ISSN: 2454-9444. Impact Factor 2020: 2.85, Citations: 488, h-Index: 12, i10-Index: 15.
12. **Jiban Singh et al., (2017).** “Study of groundwater salinity in few district adjoining River Ganga in Uttar Pradesh- a case study”, International Journal of Current Research in Biosciences and Plant Biology, 4(9): 21-41, ISSN: 2349-8080. Impact Factor 2020: 2.99, NASS: 2.99, Citations: 488, h-Index: 12, i10-Index: 15.
13. **Jiban Singh et al., (2016).** “Slaughterhouse in Uttar Pradesh with Hygienic Environment-A Case Study”, International Journal for Research in Applied Sciences, 2(2): 10-20, ISSN: 2321-9653. Impact Factor 2020:

- 1.32, Citations: 488, h-Index: 12, i10-Index: 15.
14. **Jiban Singh et al., (2016).** “River Ganga Routinely Receiving Sewage from Ashrams and Hotels In Rishikesh And Haridwar Cities-A Case Study”, *International Journal For Research In Applied Sciences*, 2(2): 01-09, ISSN: 2321-9653. Impact Factor 2020: 1.32, Citations: 488, h-Index: 12, i10-Index: 15.
 15. **Jiban Singh et al., (2015).** “Bangaloreans are Vulnerable to Carcinogenic Cancer Due to Higher 222Rn and 238U Concentration in Groundwater-A Case Study”, *Journal of Engineering and Technology Research*, 3(1): 32-42. ISSN: 2006-9790. Impact Factor 2020: 5.6, Citations: 488, h-Index: 12, i10-Index: 15.
 16. **Jiban Singh et al., (2015).** “Sewage Load into Main Stem of River Ganga in the Region of Rishikesh to Anupsahar - A Case Study”, *International Journal of New Innovation in Science and Technology*, 3(2): 55-65, ISSN: 2321-0468. Impact Factor 2020: 4.01, Citations: 488, h-Index: 12, i10-Index: 15.
 17. **Jiban Singh et al., (2015).** “Seasonal Variation of Fluoride, Nitrate and Boron in Ground Water of Hebbal and Challaghatta Basins, Bangalore, Karnataka, *International Journal of Innovative Environmental Studies Research*, 3(2):1-12. ISSN: 2354-2918. Impact Factor 2020: 5.6, Citations: 488, h-Index: 12, i10-Index: 15.
 18. **Jiban Singh et al., (2013).** “Even though Bangalore mother takes bath by holy water, sewage is flowing in her vein as blood-a case study with environmental isotopes!!”, *US Environmental Science & Development Journal*, 1(1): 1-11. ISSN: 2328-5699. Impact Factor 2020: 1.5, Citations: 488, h-Index: 12, i10-Index: 15.
 19. **Jiban Singh et al., (2013).** “A Scenario of Healthcare Waste Management in Chikkaballapur, Karnataka”, *Sjournals, Health, Safety and Environment, Turkey, Iran*, 1(3): 1-11. (Long Original Paper). Impact Factor 2020: 3.36, Citations: 488, h-Index: 12, i10-Index: 15.
 20. **Jiban Singh et al., (2012).** “Application of sulphur-34 to trace natural and anthropogenic sources of sulphur in groundwater contamination in Hebbal and Challaghatta, Bangalore-a case study”, *Journal of Research in Environmental Science and Toxicology* (ISSN: 2315-5698), 1(11): 303-310. Impact Factor 2020: 1.12, Citations: 488, h-Index: 12, i10-Index: 15.
 21. **Jiban Singh et al., (2010).** “Investigation of Heavy Metal in Crystalline Aquifer Groundwater from Different Valleys of Bangalore, Karnataka”, *Journal of Geography and Regional Planning*, 3(10): 262-270. ISSN: 2070-1845. Impact Factor 2020: 5.6, Citations: 488, h-Index: 12, i10-Index: 15.
 22. **Jiban Singh et al., (2010).** “Environmental Isotopes Investigation in Groundwater of Challaghatta Valley, Bangalore: A Case Study”, *African Journal of Environmental Science and Technology*, 4 (4): 226-233. ISSN: 1996-0786. Impact Factor 2020: 5.6, Citations: 488, h-Index: 12, i10-Index: 15.
 23. **Jiban Singh et al., (2010).** “Radon - Occurrence, estimation and hydrological applications” *Central Ground Water Board Ministry of Water Resources Government of India South Western Region, Bengaluru* 1(1):14-35.
 24. **Jiban Singh et al., (2009).** “Insecticides Residue in Various Water Sources and Sewage of Challaghatta Valley, Bangalore”, *The Ecoscan*, 4(4): 613-615. ISSN: 0974-0376, Impact Factor 2020: 7.3, NASS: 4.65, Citations: 488, h-Index: 12, i10-Index: 15.
 25. **Jiban Singh et al., (2009).** “Bacteriological Assessment of Groundwater in Arakavathy and Vrishabhavathy Basins, Bangalore, Karnataka”, *Journal of Ecology and the Natural Environment*, 1(6): 156-159. ISSN: 2006-9847, Impact Factor 2020: 5.6, Citations: 488, h-Index: 12, i10-Index: 15.
 26. **Jiban Singh et al., (2009).** “Influence of Sewerage Network on Groundwater, Radiogenic Isotope Tritium”, *Journal of Science, Engineering and Technology*, 5(2): 88- 95. ISSN: 2545-9732, Impact Factor 2020: 4.0, Citations: 488, h-Index: 12, i10-Index: 15.

RESEARCH GUIDE:

1. Shushma et al., (2011). “Roles of Safety Inspection and Safety Training in Order to avoided the hazards”
2. Mahesh et al., (2011). “Hazards and Risks due to Road Traffic Noise Level at Majestic, Bangalore”
3. Richa et al., (2010). “Assessment of Mandur Solid Waste Management Site, Bangalore”
4. Florence et al., (2010). “Influence of Sewerage Network on Groundwater of Vrishabhavathy valley, Bangalore City, Using Multiple Isotope Techniques”
5. Ruqaya et al., (2009). “Influence of Sewerage Network on Groundwater Quality around Challaghatta Valley of Bangalore City”
6. Roni et al., (2009). “Statistical Analysis of Impact of Sewerage on Groundwater”

BOOKS/CHAPTER:

1. Moirangthem Jiban Singh (Eds.) (2013). “Cleanliness is next to Godliness-A Handbook on Bio-Medical Waste Management”

CONFERENCES-SEMINARS PRESENTATIONS AND PARTICIPATIONS:

1. **18th February, 2024:** Participated in Paryawaran Sangam on “Biodiversity and Ecological Imbalance Caused by Environmental Change”, Organised by Paryawaran Sanrakshan, Delhi Herela Foundation, Delhi and ABJR Bishnoi Sabha, Rajasthan.
2. **13th October, 2023:** Participated in National Workshop on “Brain Balancing and Hypnosis” Organised by Department of Mathematics, Ramanujan College, University of Delhi, India.
3. **08th August, 2023:** Participated in National Seminar on “Azadi ka Amrit Mohotsab, Rashtria Akta aur Akhil Bharatia Sabdavalai”, Organised by Commission for Scientific and Technical Terminology, Delhi at Swami Shraddhanand College, University of Delhi.
4. **03rd August, 2023:** Participated in Symposium on “Drawing on the Power of Faith in Building a United India”, Organised by Office of Public Affairs of the Baha’is of India, Lotus Temple, Delhi.
5. **03rd February, 2023:** Participated in International Seminar on “Green Technologies for a Sustainable World: A G-20 Vision”, Organised by Department of Geography, Swami Shraddhanand College, University of Delhi, India in association with Institute Mines Teelcom Business School, University of Paris, France.
6. **2022:** Participated in the project on “Kalp Taruh”, Organized by Brahma Kumaris, Kingsway Camp, Delhi.
7. University of Delhi.
8. **26th January, 2022:** Organized a “Suryanamaskar Yagya”, Organized Swami Shraddhanand College, University of Delhi.
9. **25th January, 2022:** Organized a “National Flag Hoisting and Suryanamaskar”, Organized Swami Shraddhanand College, University of Delhi.
10. **6th - 11th January, 2022:** Participated in the Workshop on “Vedic Mathematics”, Organized by Department of Mathematics, Swami Shraddhanand College, University of Delhi in collaboration with Shiksha Sanskriti Utthan Nyas, Delhi.
11. **23rd January, 2022:** Organized a one day Training Webinar on “Nadi Ko Jano”, organized by Bharatia Shikshan Mandal, Delhi and Swami Shraddhanand College, University of Delhi.
12. **1st December, 2021:** Organized a one day National Seminar on “Ideas@75-Justice National Constitutional Day”, organised by Indian Council of Social Science Research, Delhi and Swami Shraddhanand College, University of Delhi.
13. **22nd November, 2021:** Organizing Member in National Seminar on “Role of woman in Indian’s Independence Movement”, Organised by IQAC Cell Swami Shraddhanand College, University of Delhi.
14. **22nd November, 2021:** Organising Member and Presented paper entitles “Sacrifice of Manipuri and Indian Scientist for the Swatantrata Movement”, in National Seminar on Contribution of Indian Scientist in Freedom Struggle Organised by Vijnana Bharati and Swami Shraddhanand College, University of Delhi.
15. **25th October, 2021:** Organising Member and Presented paper entitles “A Perspective on the Sacrifice of Meitei Maichous and Patriots in making a Commanding Nation in History of Manipur - A Critical Analysis”, in National Workshop on “Swatantrata Aandolan Me Sadu-Santonka Ka Yogdan”, Organised by Akhil Bharatia Itihas Sankalan Yojana, Delhi; Bharatia Itihas Anusandan Parishad, Delhi and Swami Shraddhanand College, University of Delhi.
16. **19th - 20th March 2021:** Organising Member and Presented paper entitle “Ramayana itself Diverse Laws of Environmental Protection – A Review Study”, National seminar on “Ram katha ke Vividh Aayam” Organized by Swami Shraddhanand College, University of Delhi, Alipur, Delhi.
17. **28th September, 2018:** Presented paper entitles “Sources of Pollution and Projected Level of Pollution in Ramganga in Future” in Workshop on “Health of Ramganga and Gomti Rivers-Issue and Way Forward” Organised by Upper Ganga Basin Organisation, Central Water Commission, Lucknow.
18. **10th April, 2016:** Participated in the Workshop on “Rashtrabat Par Manthan”, Organised by My Home India, New Delhi.
19. **11th December, 2012:** Participated in the Special Lecture Series on “Current Environmental Issues” Organised by Department of Environmental Science, Bangalore University.
20. **26th April 2010:** Participated in the Workshop on “Accelerating Research Discovery and Innovation”, Organized in collaboration with Thomson Reuters held at Bangalore University.
21. **10th March 2010:** Presented paper entitles “Radon - Occurrence, estimation and hydrological applications” in Workshop on “Radon Contamination in Groundwater and Application of Isotopes in Groundwater Studies”, Organised by Central Ground Water Board Ministry Of Water Resources Government of India, South Western Region, Bengaluru.
22. **28th - 29th April, 2009:** Participated on the Workshop on “Access to E-Resources for Teaching & Research” conducted by Information Library Network (INFLIBNET), Ahmadabad and Bangalore University, Bangalore.

23. **27th - 29th April, 2008:** Presented paper entitled “Influence of Sewerage Network on Groundwater, Radiogenic Isotope Tritium” Conference on “Urban Environment – Present Scenario and Future Strategies”, Organised by National Environmental Science Academy (NESA) and Department of Environmental Science, Bangalore University.

ANY OTHER (AS PER REQUIREMENT)

- **ADMINISTRATIVE ROLE:**

- ✓ Environmental Nodal Officer for Environment:
- ✓ Nodal Officer of Srishti Manthan: 2023
- ✓ Convenor of Nadi Ko Jano
- ✓ Convenor of North East Student Society
- ✓ Convenor/Co-Convenor/Member of Various Seminar/Workshop/Conference etc.
- ✓ Co-Convenor of Eco-Club: 2022-2023
- ✓ Member of Parliament – Environmental Youth Parliament-2022
- ✓ Member of Academic Advisor Board: 2021-2022
- ✓ Member of Classes Time Table Formation: 2022-2023
- ✓ Member of Annual Report: 2022-2023
- ✓ Convenor of Annual Magazine-2023-24
- ✓ Member of Music Society: 2023-2024
- ✓ Member Cleanliness of College Campus (VC Visit – 16/09/2023)
- ✓ In-Charge of Discipline (Outside) – Room no. P-17 (DUSU Election 22/09/2023)

- **ACHIVEMENT (NABET Accredited):**

- ✓ **“Functional Area Experts on Industrial Solid Waste Management”**, Accredited by National Accreditation Board for Education & Training, Quality Council of India QCI Office, 6th Floor, ITPI Building, Ring Road, I.P. Estate, New Delhi.

- **PROFESSIONAL TRAINING:**

1. **23rd-29th June, 2024:** Seven Days Teacher Training Programme on “Youth Mental Health First Aid”, organised by IQAC and Placement and Career Development Cell of Ramanujan College in collaboration with Mpower-Aditya Birla Education Trust.
2. **20th Dec., 2023. – 10th Jan., 2024:** Participated in FDP/SDP Conclave on “Shrimad Bhagavad Gita”, Organised by Bharatam, Center for Learning, Illumination and Innovation, Ramanujan College, University of Delhi.
3. **29th Sept. - 01st Oct., 2023:** Participated in National FDP/SDP Conclave on “Educators – Creating Leaders for Future”, Organised by Rajyoga Education and Research Foundation and Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, at Brahma Kumaris Om Shanti Retreat Centre, Gurugram.
4. **20th Sept. – 19th Oct., 2023:** Participated in National FIP Conclave on “Faculty in Universities/Colleges/Institutes of Higher Education”, Organised by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Education and Ramanujan College, University of Delhi.
5. **29th Aug. – 12th Aug., 2023:** Participated in FDP/SDP Conclave on “Environmental Science”, Organised by Raghunath Girls' Post Graduate College, Meerut, UP, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Education and Ramanujan College, University of Delhi.
6. **29th-31st August, 2013:** Three Days Training on **“Bio-Medical Waste Management”**, organized by the Environmental Management and Policy Research Institute, Department of Forest, Ecology & Environment, Government of Karnataka.
7. **4th March-1st April, 2009:** Thirty Days Training on “Training on Major ion chemical species, Oxygen-18, Tritium, Uranium and Radon analysis” in Bhabha Atomic Research Centre, Mumbai.
8. **13th February-2nd March, 2008:** Twenty Days Training on “Training on Major ion chemical species, Oxygen-18 and Tritium analysis” in Bhabha Atomic Research Centre, Mumbai.

- **MEMBERSHIP OF SCIENTIFIC INSTITUTE:**

1. Area Expert (2007- Onward): Institute for Catchment Studies and Environmental Management Central University Campus, Bangalore