

CV



- 1. Name & Designation:** Dr. Anshumali, Professor (Employment Code: 833)
2. Date of Birth: 27.09.1975
3. Corresponding Address: Department of Environmental Science and Engineering
Indian Institute of Technology (Indian School of Mines), Dhanbad-826004
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4. Academic Qualification:

Examination	Year	Board/University	Subjects	Division
Matriculation	1990	BSEC, Patna	Arts, Sciences	I st
Intermediate	1992	BIEC, Patna	Phy, Che, Bio, Math, Hindi, Eng	I st
B.SC.	1996	B.H.U., Varanasi	Botany	I st
*M.Sc.	1998	B.H.U., Varanasi	Botany	I st
**M.Phil.	2003	J.N.U., New Delhi	Environmental Sciences	I st
***Ph.D.	2006	J.N.U., New Delhi	Environmental Sciences	Awarded

*“Carbon budget of savanna and grassland ecosystem of the world” under supervision of Prof. J. S. Singh, Deptt. of Botany, Faculty of Science, B.H.U., Varanasi, 1997-1998.

**“Geochemical fractionation of metals in the surficial sediments of Achankovil River Basin, Kerala under supervision of Prof. AL. Ramanathan, SES, J.N.U., New Delhi, 2003.

***“The study of heavy metal and PAHs in the Pandoh Lake, Mandi Town, Himachal Pradesh, India” under supervision of Prof. AL. Ramanathan, SES, J.N.U., New Delhi, 2006.

5. Area of Specializations:

Geochemistry and Biogeochemistry of Terrestrial/Aquatic Ecosystems, Ecology and Biodiversity, Environmental Quality, EIA/EMP, Restoration Ecology of Coal and Non-coal Mining Industries, Land Degradation and Desertification, Natural Resource Management (Rivers, Aquifers, Reservoirs, Forests, Soil, and Sediment), SIA and Livelihood, Mission Life, Ecosystem Services, Carrying Capacity, Cumulative Impact Assessment.

6. Awards/Scholarship:

- Qualified Joint CSIR-UGC National Eligibility Test (NET) in subject Life-Sciences held on 25.06.2000.
- Qualified Joint CSIR-UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship-National Eligibility Test (NET) in subject Life-Sciences held on 31.12.2001.
- Appeared in Shyama Prasad Mukherjee Fellowship test held on 14th July, Kolkata, 2002.

7. Employment History:

S.N	Employer	Position held	Date of Joining	Date of Promotion	Pay Scale
1.	IIT(ISM), Dhanbad	Professor	12.04.2021	Continuing	Level 14A
2.	IIT(ISM), Dhanbad	Associate Professor	31.05.2016	11.04.2021	Level 13A2
3.	ISM, Dhanbad	Assistant Professor	06.09.2013	30.05.2016	PB-4 + 9000
4.	ISM, Dhanbad	Assistant Professor	15.02.2010	05.09.2013	PB-3 + 8000
5.	ISM, Dhanbad	Assistant Professor	15.02.2008	14.02.2010	PB-3 + 7000
6.	ISM, Dhanbad	Assistant Professor	15.02.2007	14.02.2008	PB-3 + 6000

8. Subject Teaching:

B.Tech:	M.Tech/Ph.D:
• Environmental Biology/Microbiology • Environmental Biotechnology • Ecology and Biodiversity • Water Chemistry/Pollution • Soil Chemistry/Pollution • Pollution Control and Environmental Management • Environmental Geotechnology • Biomedical and Hazardous Waste Management • Environmental Policy, Law, EIA and Audit • Environmental Sciences Modular	• Environmental Microbiology • Environmental Biotechnology • Ecology and Biodiversity • Environmental Policy, Law, EIA and Audit • Environmental Biogeochemistry • Biodiversity Conservation • Research Methodology

9. Special Award/Honour:

- 2015-2019: The Non-Official Member of Regional Empowerment Committee (REC) under Forest (Conservation) Act 2003 at Regional Office, East Central Zone, Ranchi, constituted by Ministry of Environment Forests and Climate Change, Government of India, New Delhi (Extraordinary, Part II-Section 3-Sub-section (ii), The Gazette of India, New Delhi.
- 2018 – 2020: “Member of the State Level Appraisal Committee for Critical Public Utility Infrastructure Projects” in Jharkhand State vide letter no Forest Land-03/2018-2246 dated 29/05/2018 MoEF&CC Government of Jharkhand.
- 2019-2020: Invited Member of the “State Level Steering Committee” for Climate Change by the MOEF&CC, Government of Jharkhand.
- 2019: Member of NERCS (Network of Experts & Resources for Subsurface Investigations and Remediation of Contaminated Sites), Network List, Ministry of Environment, Forest & Climate Change.
- 2013-2016: Empanelment as Functional Area Expert (FAE) for CMPDIL, Ranchi, 2013-2016.
- 2011-2016: NABET-QCI accreditation as a Functional Area Expert (FAE) in the area of Water Pollution and Control, Ecology and Biodiversity, Soil Pollution and Control for “A” type industries for preparing EIA/EMP.
- 2014-2015: External Expert in the Board of Studies in Department of Biotechnology (2014-15), Vinoba Bhave University, Hazaribag, Jharkhand.
- 2014-2015: External Expert in the Board of Studies for framing Syllabi of M.Sc. (Environmental Science, 2014-15), Vinoba Bhave University, Hazaribag, Jharkhand.
- 2018: Nominated as External Examiner to evaluate the PhD Thesis on the subject Botany, V.B.S. Purvanchal University, Jaunpur, Uttar Pradesh.
- 2018: External Expert Selection Committee for the PhD Science Programme of the AcSIR at CSIR-CIMFR Dhanbad.
- 2019: Appointed as Indian External Examiner of the oral defense committee for the conduct of Viva-voce Examination, Department of Polymer and Processing Engineering, IIT Roorkee (Saharanpur Campus).
- 2020: Appointed as Expert by the ICFRE Dehradun for the preparation of "Standardized ToR to assess the impact of the underground mining on the forest and other natural resources".
- Invited as a Special Expert to attend the PAC Environmental Sciences of the International Cooperation Division, DST, Govt. Of India on 24.07.2021 to evaluate the India-Portugal and India-Serbia Call for Joint Proposal 2020.
- Nominated as a Jury Member of the 2021 CMS VATAVARAN film festival on environment and wildlife, 1st November 2021.
- 2022: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Central University of Gujarat, Gujarat, India.
- 2023: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Global Ph.D. at Nalanda University, Rajgir, India.
- 2023: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of PhD at Sikkim University, Sikkim, India.
- 2023: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at University of Allahabad, Allahabad, India.
- 2021-2024: Appointed as a Member of State Level Expert Appraisal Committee (SEAC), Bihar, vide Gazette of India Notification S.O. 3271(E), dated 12th August 2021.
- Invited to attend the meeting of “State Level Steering Committee” on “Jharkhand State Action Plan on Climate Change” organized by the CAMPA, Govt. of Jharkhand, 17.11.2021.
- 2022: Appointed as Member of the Board of Studies of the Department of Environmental Science, School of Earth, Biological and Environmental Science, Central University of South Bihar, Gaya, Bihar vide Letter No. CUSB/Acad/42-8/2013/1692 dated 22.09.2022.
- Appointed as Expert Committee Member by the State Expert Appraisal Committee (SEAC), Bihar, for periodic inspection of sand mining lease areas vide Notification No. 66 dated 21/02/2022.

- Appointed as Expert Committee Member of REED+ Strategy constituted by the Ministry of Environment Forest and Climate Change; Government of Jharkhand vide notification 1398 dated 01/06/2023.
- Empanelment as Expert Member of the AICTE Expert Visit committee for conducting physical visits to AICTE approved Institutions/ Universities, 25 July 2023.
- Nominated as the Member for constitution of Sub-Committee of Forest Advisory Committee (FAC) for Assessment of hydrological regimes of the area and impact of ongoing mining operations of the Pakri Barwadih Coal Mining Project of NTPC Ltd, Jharkhand, memo No. 63, dated 19.01.2023.
- Nominated as the Nodal Officer on behalf of the IIT(ISM) Dhanbad in the Regional Facilitating Institutes (RFIs) to the initiative “National Climate Forum” constituted by the MoEF&CC, GoI, New Delhi, 18th March 2024.
- Nominated as the Nodal Officer on behalf of the IIT(ISM) Dhanbad for annual inspection of the Grossly Polluting Industries (GPIs) operating in river Ganga and Yamuna main stem States, 26 February 2024.
- Nominated as a Member of the Jury Committee for the FIMI Awards 2023-24, Federation of Indian Mineral Industries, FIMI House, B-311, Okhla Industrial Area Phase I, New Delhi - 110 020, 20th May 2024.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Central University of South Bihar, Gaya, India.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Central University of Jharkhand, Ranchi, India.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Central University of Jammu, India.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at the University of Himachal Pradesh, Mandi, India.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at IIT Kharagpur, Kharagpur, India.
- 2024: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at VBU, Hazaribagh, India.
- 2025: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at CSIR-National Environmental Engineering Research Institute, Nagpur, India.
- 2025: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Punjab University, Chandigarh, India.
- 2025: Nominated as a Member of the Jury Committee for the FIMI Awards 2024-25, Federation of Indian Mineral Industries, FIMI House, B-311, Okhla Industrial Area Phase I, New Delhi - 110 020, 9th June 2025.
- 2025: Appointed as External Member, School Board, School of Natural Sciences, Central University of Jharkhand (Ref No.: CUJ/BoSc of SNS/2018/550 dated 07.04.2025).
- 2025: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at Guru Nanak Dev University, Amritsar-143005 (Punjab), India.
- 2025: Appointed as External Examiner for a Ph.D. Thesis evaluation for the award of Ph.D. Thesis at the Department of Environmental Science, Central University of South Bihar, Gaya.
- 2025: Invited as the Guest of Honor, Devnad-Damodar Mahatosav, Telmacchho, District Bokaro, organized by the Yugantar Bharati Ranchi and MEL-Hub, IIT(ISM) Dhanbad, 5th June 2025.
- 2025: Nominated as the Expert Committee Member for evaluation and promotion of “Grade-III(1)/Technical Assistant to Grade-III (iv)/Technical Officer”, conducted by the CSIR-CIMFR Campus, Dhanbad, 2nd September 2025.
- 2025: Invited as the Chief Guest in a skill development program entitled “Analytical Chemistry and its Application in Soil and Water Analysis” organized by the CSIR-CIMFR Digwadih Campus, Dhanbad, 15th September 2025.
- 2025: Nominated as the Expert for Assistant Professor Interview- Environmental Science, Bihar State University Service Commission, Patna, from 07.10.2025 to 08.10.2025.

- 2026: Appointed as External Examiner to conduct final viva-voce examination at Department of Microbiology, Guru Nanak Dev University, Amritsar, India on 12.01.2026
- 2026: Empaneled as QCI-NABET ASSESSOR under the Scheme of Accreditation of EIA Consultant Organizations on 25.05.2026.

10. Member/Life Member:

- L-1725: Geological Society of India P.B. No. 1922, Gavipuram P.O. Bangalore – 560 019, India.
- LM-803: Indian Geological Congress, Post Box No. 114, 402/1, 35A, Civil Lines, Roorkee-247 667 India.
- Indian Society of Soil Science, NGSC Complex, Dev Prakash Marg, Pusa, New Delhi 110012, India.
- IAH-146936: International Association of Hydrogeologist, IAH, PO Box 4130, Goring, Reading RG8 6BJ, United Kingdom
- NGWA- 4044159: National Groundwater Association, 601 Dempsey Rd. Westerville, OH 43081 United States
- LM 341: International Society For Tropical Ecology, Department of Botany, Banaras Hindu University, Varanasi, UP, India-221005

11. Administrative Responsibilities (Department/Institute Management):

- Appointed as Warden of the Jasper Hostel: 01.04.2012 to 30.03.2013 one year.
- Appointed as DAC Secretary, Department of Environmental Science and Engineering: 17.07.2012 to 13.12.2013, one year and six months.
- Appointed as Center Superintend of Entrance Examination conducted for the MSc/MSc Tech/MPhil and JRF-EE-2014 at Indore Center: 07.05.2014 to 13.07.2014 One year.
- Appointed as Member (Assistant Professors Constituency) of General Council and Executive Board (GC & EB), Indian School of Mines, Dhanbad: 10.12.2014 to 09.12.2015 one year.
- Appointed as Member of the Library Advisory Committee (LAC): 22.05.2015 to 22.05.2017 Two years.
- Appointed as Faculty In-charge (Innovation and Entrepreneurship) Dept. of ESE: 19.02.2020 to 18.02.2021 One year.
- Appointed as Member Secretary of the Committee for reconstituting the Center for Water Resource Management (CWRM) 04.06.2020.
- Coordinator: signing of Memorandum of Understanding between IIT (ISM) Dhanbad and FICCI New Delhi 2020.
- Coordinator: signing of Memorandum of Understanding between IIT (ISM) Dhanbad and ICFRE Dehradun 2020.
- Coordinator: signing of Memorandum of Agreement between Member Institute [IIT (ISM) Dhanbad] and Lead Institute [IIT Kanpur] to deliver the Mandate of cGanga (Centre for Ganga River Basin Management and Studies) supported by the Ministry of Jalshakti, GOI, 2020.
- Coordinator: signing of Memorandum of Understanding between IIT (ISM) Dhanbad and Planet Sustech, New Delhi 2023.
- Coordinator: signing of Memorandum of Understanding between IIT (ISM) Dhanbad and Voyant Solutions Pvt. Ltd., New Delhi 2023.
- Coordinator: signing of Memorandum of Understanding between IIT (ISM) Dhanbad and AIFT, New Delhi 2023.
- Appointed as Head, Center for Water Resource Management (CWRM), IIT(ISM) Dhanbad, 2020.
- Appointed as Head, Department of Environmental Science and Engineering (ESE), IIT(ISM) Dhanbad, May 2021-May 2024.
- Appointed as Coordinator, EIACP (PC-RP) IIT(ISM) Dhanbad on Environmental Problems of Mining, May 2021-June 2024.
- Extension of tenure of Head, Department of Environmental Science & Engineering (ESE), IIT(ISM) Dhanbad, 24th May 2024 to 30 June 2024.
- Appointed as Centre Superintendent of Special Invigilation Team during Monsoon End Semester Regular Examination conducted by the IIT(ISM) Dhanbad on 19 November, 2025.

12. Foreign Nations Visited:

- France 2009
- USA 2012
- Republic of Macedonia 2012
- Spain 2016
- Australia 2023

13. Invited Lecture/Talk:

- Invited Expert Lecture Study Abroad Programme on Mining, Environment and Sustainable Development for University of South Florida - ST. Petersburg, USA, From 5 - 18 August, 2014.
- Invited Expert Lecture on Mining Environment and Sustainable Development for Officials of the Ministry of Mines, Govt. of Afghanistan. From 16.08.2014 to 01.09, 2014.
- Invited Expert Lecture Training Programme on Environmental Impact Assessment of Mining Projects for Officials of the Ministry of Mines, Govt. of Afghanistan. From 6th to 22th December, 2014.
- Invited Guest Speaker DST-MOEA-JNU Training Programme on “Natural Resources and Water Management” for Africans in the Jawaharlal Nehru University, New Delhi, 2-22 December 2014.
- Invited Expert Lecture Nine Week programme for Management Trainees (Environmental Engineering) of Coal India at IICM Ranchi from 27th April to 27th June 2015.
- Invited Panelist National Conference on PAST AND PRESENT GEOCHEMICAL PROCESSES – IMPACTS ON CLIMATE CHANGE AND ANNUAL GENERAL BODY MEETING – 2015 INDIAN SOCIETY OF APPLIED GEOCHEMISTS, HYDERABAD School of Environmental Sciences and Jawaharlal Nehru University New Delhi, India 110067 22–23 December 2015.
- Invited Expert Lecture Renewable Energy Materials & Technology in Academia & Industries” (REMTAI-2016) in the Department of Applied Physics, Indian School of Mines Dhanbad on March 2-4, 2016.
- Invited Expert Lecture Three days Training Programme on EIA/EMP Preparation of Ecology & Biodiversity (EB) & Soil Conservation (SC) at IIIFC, Kolkata organized by Department of Environmental Science & Engineering, Indian School of Mines) Dhanbad during 2-4 December, 2015.
- Invited Expert Lecture 5-Day Training Program on “Water Quality and Treatment Plant Operation” in the Department of Environmental Science & Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, during December 19- 23, 2016.
- Invited to an Expert Lecture Training Program on ‘Environmental Clearance Procedures and Impact Assessment for Mining Projects’ from June 07-11, 2017, at IIT(ISM) Industry Institute Interaction Facility, Kolkata, India.
- Invited Panelist Workshop on “Climate Change: Opportunities and Challenges in Jharkhand” – held on 26th September 2018 at Ranchi, MoEF&CC Government of Jharkhand and NABARD.
- Invited Expert Lecture DST-SERB School for Brain Storming Session on a Short-Term Course entitled "Smart Energy Materials & Devices" on April 29-May 3, 2019, Executive Development Centre, IIT-ISM Dhanbad.
- Invited Keynote Lecture “Impact of Recent Cyclone on Biodiversity”, on the Eve of World Environment Day, June 5, 2020, Department of Environmental Sciences, Sharda University, Greater Noida, UP.
- Invited Speaker to Online National Conference on “Environment and Energy Materials: NCEEM-2020” June 27-28, 2020, organized by the Department of Environmental Sciences, Sharda University, Greater Noida, UP
- Invited Expert Lecture in online training programme “Industrial Safety Risk Management: Multi Hazard Scenario with special focus on COVID-19 Part I” 17-19 August 2020, organized by the National Institute of Disaster management (NIDM, GoI) and Federation of Indian Chamber of Commerce and Industries (FICCI), New Delhi.
- Invited Expert Lecture in online training programme “Industrial Safety Risk Management: Multi Hazard Scenario with special focus on COVID-19 Part II” 17-19 August 2020, organized by the National Institute of Disaster Management (NIDM, GoI) and Federation of Indian Chamber of Commerce and Industries (FICCI), New Delhi.
- Invited Expert Lecture in online workshop on ‘Mines Water Management’ on 24th September 2020 organized by the National Water Mission (NWM), Department of Water Resources River Development and Ganga Rejuvenation, Ministry of Jal Shakti, Government of India, New Delhi.

- Invited Expert Lecture in online Refresher Course on Environmental Studies, Water, Earth and Environment (IDC) on the theme “Towards Sustainable Environment” for University and College teachers scheduled to be held from October 27 – November 10, 2020, Centre for Professional Development in Higher Education University of Delhi.
- Invited Panellist in 5th India Water Impact Summit (IWIS) from December 10-15th 2020, cGanga-IIT(Kanpur) and Ministry of Jal Shakti, Government of India.
- Invited Guest Speaker, International Earth Day (Restore Our Earth) Organized by Department of Environmental Science, Central University of South Bihar, Gaya, Bihar, 22 April 2021.
- Invited Guest Speaker, World Environment Day: 05th June 2021, organized by the Environment Management Division, Directorate of Extension, Indian Council of Forestry Research and Education, Dehradun.
- Invited Expert Lecture in the “National Training Program on Audit of Environmental Pollution (Air, Water, and Land)” organized by the International Centre for Environment Audit and Sustainable Department (iCED), Jaipur, 25th August 2021.
- Invited Panelist Session “A2: Roles and Responsibilities for River Resource Assessment and Monitoring” on Thursday, 10 December 2021 from 1400 to 1545 hrs (IST) in 6th India Water Impact Summit [IWIS-2021] December 9-14, 2021, organized by National Mission for Clean Ganga, Ministry of Jal Shakti, Govt. of India and cGanga IIT Kanpur.
- Invited Panelist to attend meeting of “State Level Steering Committee” on “Jharkhand State Action Plan on Climate Change” organized by the CAMPA, Govt. of Jharkhand, 17.11.2021.
- Invited Panelist Session “A4: Empowering Local and Small Stakeholders for Sustainable River Resource Management” on Monday, 13 December 2021 from 1400 to 1545 hrs (IST) in 6th India Water Impact Summit [IWIS-2021] December 9-14, 2021, organized by National Mission for Clean Ganga, Ministry of Jal Shakti, Govt. of India and cGanga IIT Kanpur.
- Invited as Expert in “Meeting of the Departmental Assessment Committee (DAC) to be held on 10.12.2021 for consideration of promotion of three scientists from the grade of scientist 'D' to the grade of scientist 'E', MoEF&CC, New Delhi.
- Invited as Keynote Speaker and Panelist in “State Level Workshop Glasgow Convention: Sustainable Pathways for Future Ready Jharkhand” organized by the CAMPA, MoEF&CC, Government of Jharkhand, and CEED Ranchi on 09.05.2022.
- Invited as Expert in “Meeting of Expert Selection Committee (ESC)” for selection to 01 post of Scientists B in the discipline of Environment Engineering (post no. 11-12/B/MoEF&CC) held on 26.05.2022 from 10:00 am onwards in virtual mode.
- Invited Guest Speaker to celebrate World Environment Day 2022 ENSPIRA Webinar - 1 organized by TATA Steel, Jamshedpur on 30th May 2022.
- Invited Guest Speaker to celebrate World Environment Day, 2022 organized by Institute of Forest Productivity, Ranchi on 05.06.2022
- Invited Guest Speaker to celebrate World Environment Day, 2022, organized by Hindustan Copper Limited, Kolkata on 06.06.2022.
- Invited Guest Speaker and Panelist to celebrate World Soil Day, 2022, organized by the Institute of Forest Productivity, Ranchi, on 05.12.2022.
- Invited Panelist to the Seventh Edition of the India Water Impact Summit [IWIS] held on December 15-17, 2022, at Dr Ambedkar International Centre (DAIC), 15, Janpath Rd, Windsor Place, New Delhi.
- Invited Keynote Lecture during Winter School (Level 1), Capacity Building Program: DST-National Geospatial Program at Indian Institute of Technology (ISM), Dhanbad from 10 February to 02 March 2023.
- Invited Keynote Lecture during a webinar on the occasion of National Science Day, 21st February 2023, organized by IGNOU: Regional Centre Jammu.
- Invited Keynote Speaker to celebrate World Environment Day, 2023, organized by Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh, 05.06.2023.
- Invited Keynote Speaker, Bund and Solid Waste Management, 8-9 September, 2023, organized by Jindal Steel Limited, Bellary, Karnataka.

- Invited Panelist to the Eighth Edition of the India Water Impact Summit [IWIS] held on November 22 to 24, 2023 at Dr Ambedkar International Centre (DAIC), 15, Janpath Rd, Windsor Place, New Delhi.
- Invited Panelist to the Ninth Edition of the India Water Impact Summit [IWIS] held on November 4 to 6 December, 2024 at Bharat Mandapam – Convention Centre, New Delhi.
- Invited Speaker in Refresher Course “Chemistry of Environment”, organized by the Department of Chemistry, Gorakhpur University, Gorakhpur 10th October 2025.
- Invited Guest Lecture for the 2nd year MBA students of the Institute of Forest Management (IFM) Bhopal, 11th October 2025.

14. Workshop Attended:

- Third National Workshop on Biostatistics and Biometry, Deptt. Of Zoology, B.H.U., Varanasi, 1998.
- National Workshop on Water Quality (including drinking water), School of Environmental Sciences, JNU, New Delhi, Feb 2002.
- Short-term training program on Mathematical Modeling of groundwater flow and mass transport, theory and hands-on training” SES, J.N.U., New Delhi, 12-9 December 2004.
- Short-term training program on Mathematical Modeling of groundwater flow and mass transport, theory and hands-on training” SES, J.N.U., New Delhi, 19 September to 19 October 2005.
- Training course on Hydrology of Lakes for Sustainable Human Benefits, PU, Chandigarh, 2007.
- Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 & Amendments till March, 2010. 2-22 October, National Safety Council, Goa, 2010.
- Recent Advancement of Stable Isotopes Applications in Hydrology/Hydrogeology: Environment and Earth Process by LWIA PICCARO, JNU, New Delhi, 13-14 June 2016.
- Energy Resources: Future Prospects of Fuel and Chemicals, Department of Chemical Engineering, IIT(ISM) Dhanbad November 07-08, 2016.

15. National Conference Participation:

- Tropical Ecology Congress. Current Trends in Tropical Biodiversity Research and Conservation. Garhwal, Uttarakhand, India. 2-5 December, 2007.
- National Seminar on “Conservation and Restoration of Lakes (CAROL, 2008), Nagpur, India.
- National Seminar on “Recent Advances in Information Technology” (RAIT-2009), 6-7 Feb, 2009 ISMU, Dhanbad.
- National Industrial Exhibition-cum-Seminar (NIES – 2008), 26-28 December, Bokaro.
- National Conference on Scientific Strategies and Preservation of Wetlands in India, JNU, New Delhi 2010.
- National Conference on Landscape Restoration Processes Challenges and Opportunities, 22- 23 February, 2011, IFRI, Dehradun.
- National Conference on Green Earth, October 18-19, 2012, Organized by the Indian Geological Congress and Wadia Institute of Himalayan Geology, Dehradun.

16. International Conference Participation:

- Second International Conference on Groundwater for Sustainable Development: Problems, Perspectives and Challenges, JNU, New Delhi, 2006.
- 1st International Conference on Managing the Social and Environmental Consequences of Coal Mining in India, New Delhi, 2007.
- International Symposium on Environmental Pollution, Ecology and Human Health, July 25- 27, 2009, S. V. University, Tirupati, India.
- International Symposium on Mineralogy, Environment and Health, UMLV, Paris, 17-18 September, 2009.
- 26th International Conference on Solid Waste Technology and Management during March 27 – 30, 2011 at Philadelphia, PA, U.S.A.
- Golden Jubilee International Conference on Technological Challenges and Management Issues for Sustainability of Mining Industries (TMSMI 2011), 4th to 6th August, 2011 at T. Rourkela.

- 14th International Conference of International Academy of Physical Sciences (CONIAPSXIV), Sardar Vallabhbhai National Institute of Technology, Surat, December 22-24, 2011.
- The Fifth International Scientific Conference BALWOIS 2012, Ohrid, Republic of Macedonia, 28th May to 2nd June 2012.
- 18th Convention of Indian Geological Congress & International Symposium on “Minerals and Mining in India-The way forward, inclusive of cooperative mineral –based industries in SAARC countries”, 27th -29th April 2013, M. P. Council of Science and Technology, Vigyan Bhawan, Bhopal, Madhya Pradesh.
- 5th International Conference on “Biodiversity” held on March 10-12, 2016 in Madrid, Spain.
- 6th EcoSummit 2023 on Building a sustainable and desirable future: Adapting to a changing land and sea-scape 13-17 June 2023, Gold Coast, Australia.

17. Outreach Programme Organized (Training Programme/National/International Conference/Seminar/Webinar):

- 1st International Conferences on Managing the Social and Environmental Consequences of Coal Mining in India, November 19-21, 2007, IIC, New Delhi.
- National Conference on Sustainable Development of Groundwater Resources in Industrial Regions, (SDGRIR 2012) 22-23 March 2012, Dept. of ESE, ISM, Dhanbad.
- Three days Training Programme on EIA/EMP Preparation of Ecology & Biodiversity (EB) & Soil Conservation (SC) 2-4 December, 2015, IIIFC, Kolkata.
- National Conference on “Biogeochemical Cycles and Climate Change (BCCC 2018)” organized for two days (10-11 August 2018) at IIT(ISM), Dhanbad.
- National Conference on “Recent Trends in Environmental Pollution and Disaster Risk reduction (RTEPD RR 2020) organized for two days (6-7 February 2020) at FICCI, New Delhi.
- National E-Celebration and Webinar entitled “Groundwater Availability and Management-Its True Value” organized by the Center for Water Resource Management (CWRM) at IIT(ISM), Dhanbad on the eve of the World Water Day 22 March 2021.
- International Webinar on “Introduction to subsurface flow and transport modelling with FEFLOW” organized by the Water Resource Management (CWRM) at IIT(ISM) in association with DHI India Water & Environment Pvt. Ltd. on 26 April 2021.
- Webinar on “Ecosystem Restoration” organized on the occasion of the World Environment Day (WED) on 5th June, 2021.
- Lecture/Training on “Chemistry-Climate Modeling” organized on 16th August, 2021, Dept of ESE.
- Lecture on “Metals and Metalloids recover from Industrial Wastewater and Solid Wastes and Success Stories” organized on 04.11.2021, Dept of ESE.
- One Day “Exposure visit-cum-Training Programme for College students” organized by IIT(ISM) ENVIS Centre on 02.01.2022.
- Lecture on “Valuation of Ecosystem Services of Wetlands, Kidneys of a landscape”, 02.02. 2022, World Wetland Day (Invited Speaker: Prof. TV Ramachandran, IISc Bangalore).
- Three Days Training Programme on “Air, Water Pollution and Solid Waste Management Practices" for college students organized by the IIT(ISM) ENVIS Centre from 11-13 March, 2022 as a part of ‘Ek Bharat Shreshtha Bharat’, an initiative by Indian Government for creating and providing an environment which promotes learning between States by sharing best practices and experiences.
- Lecture on “World Water Day” 22.03.2022 (Invited Speakers: Dr. Alok Sikka, Delhi; Dr. Deepanker Saha, Delhi).
- Three-days Online Course on "Python for Handling Large Geo-spatial Data" organized by IIT(ISM) ENVIS Centre (RP), 01.06.2022
- Organized celebration of World Environment Day 2022: "Only One Earth" with the focus on "Living Sustainably in Harmony with Nature" Celebrated by IIT(ISM) ENVIS Centre, 05.06.2022
- Organized Three Days Hands-on Training Programme on "Groundwater Flow and Contaminant Transport Modeling in GMS Software", 07th - 09th June, 2022.
- Organized invited guest lecture series on 10.08.2022 (Invited Speaker: Mgr. Martin Bartuska Ph.D., Charles University of Prague and Biology Centre ASCR Ceske Budejovice, Czech Republic).
- Organized invited guest lecture series on 27.08.2022 (Invited Speakers: Prof. Colin Hills, Professor of Environment and Materials Engineering; Director of the Centre for Contaminated Land Remediation at University of Greenwich and Coordinator, Indo-UK Centre of Environment Research and Innovation, Dr. (Ms.) Nimisha Tripathi, Sr. Lecturer at University of Greenwich and Convener, Indo-UK Centre of Environment Research and Innovation and Dr. Rajshekhar Singh, Indian Co-coordinator, Indo-UK Centre of Environment Research and Innovation and Chief Scientist/CSIR-CIMFR.).

- Organized Awareness Programme on "Reintroduction of Cheetah in India" on 13.09.2023.
- Organized Cheetah Awareness and Sensitization Campaign at Govt. Plus Two High School (HE School), Dhanbad and Abhaya Sundari Girls High School, Dhanbad on 14.09.2023.
- Organized celebration of "World Ozone Day 2022" and Awareness Programme on "Reintroduction of Cheetah in India" at IIT(ISM) Dhanbad on 16.09.2023.
- Organized invited guest lecture series on 23.12.2022 (Invited Speaker: Mr. Alejandro Caballero, Director de ingenieria, BIOAZUL, Spain).
- Organized invited guest lecture series on 29.10.2022 (Invited Speaker: Mr. Srikanth Grandhi, PE, Arcadis U.S. Inc.).
- Organized Celebration of National Constitution Day by ENVIS Centre at Dept. of ESE, IIT(ISM) Dhanbad on 26.11.2023
- Organized invited guest lecture series on 18.01.2023 (Invited Speaker: Mr. Max Odentha, KreTa, Germany).
- Organized Awareness Programme on Mission LiFE on the occasion of 74th Republic Day, 26.01.2023.
- Organized Awareness campaign on Mission LiFE during the IIT(ISM) Industry-Institute Interaction 2023 on 04.02.2023.
- Organized invited guest lecture series under Mission LiFE on 10.02.2023 (Invited Speaker: Dr. T. V. Ramachandra, Coordinator of Energy and Wetlands Research Group (EWRG) and Convener of EIACP (PC-RP), CES, IISc Bengaluru).
- Organized an awareness programme under Mission LiFE at Dhanbad Pranjivan Academy +2 High School on 24.02.2023.
- Organized an awareness programme under Mission LiFE at Abhay Sundari Girls High School, Dhanbad on 01.03.2023.
- Organized an awareness programme under Mission LiFE at East End Convent School, Dhanbad on 02.03.2023.
- Organized an awareness programme under Mission LiFE at East End Convent School, Dhanbad on 02.03.2023.
- Organized invited guest lecture series under Mission LiFE on 03.03.2023 (Invited Speaker: Dr. Rajender Gupta, Professor (Phased Post Retirement), Faculty of Engineering - Chemical and Materials Engineering Department, University of Alberta, Canada).
- Organized an awareness programme under Mission LiFE at Dhanbad Vikash Vidyalaya on 03.03.2023.
- Organized an awareness programme under Mission LiFE at Dr. Shyama Prasad Mukherjee Inter College Sindri on 06.03.2023.
- Organized an awareness programme under Mission LiFE among students at various schools in villages of Janpad, Sonbhadra district of UP on 20.03.2023.
- Organized an awareness programme under Mission LiFE at Banwasi Seva Ashram, UP on 21.03.2023.
- Organized an awareness programme under Mission LiFE at Adasrh Genius School, Ganiyari, Waidhan, Singrauli district of M.P. on 21.03.2023.
- Organized an awareness programme under Mission LiFE at Rajakiya Uthkramit Madhya Vidyalaya, Burhi khar, Manjhiaon, Garhwa district of Jharkhand on the occasion of World Water Day, 22.03.2023.
- Organized an awareness programme under Mission LiFE at Garhwa Polytechnic College, Hasker Garhwa on 23.03.2023.
- Organized an awareness programme under Mission LiFE in primary and secondary schools (Rajkiya Utkramit Madhya Vidyalay Amhar Khas, Bishunpura, Garhwa, Jharkhand and Rajkiya Madhya Vidyalay Karnpura, Ramana, Garhwa, Jharkhand) at villages of Garhwa district of Jharkhand on 25.03.2023.
- Organized Banki Jan Chetana Andolan: An Awareness Programme in-line with Mission LiFE's Save Water theme organized by IIT(ISM) EIACP (PC-RP) during 18th – 26th March, 2023.
- IIT(ISM) EIACP (PC-RP), Department of Environmental Science & Engineering, IIT(ISM) Dhanbad in association with Yugantar Bharti, Ranchi organized one day National Seminar on the occasion of World Earth Day on 22nd April 2023.
- Organized invited guest lecture series under Mission LiFE on 12.05.2023 (Invited Speaker: Prof. P.K. Singh, Assoc. Prof., IIT(ISM) Dhanbad).
- Organized Youth Parliament 2023 (Theme: 'Individual Behaviour and habits have an impact on environment and climate change'.) on LiFE: Stage-I online debate competition cum group discussion for Jharkhand State and coordinated the competition for Eastern Region on 15th May 2023.

- Organized Yoga Programme under Mission LiFE Campaign to promote Healthy Lifestyle organized by IIT(ISM) EIACP (PC-RP) during 25th – 27th May, 2023.
- Organized invited guest lecture series on 31.05.2023 (Invited Speaker: Dr. Rajendra Singh, Founder and President of Tarun Bharat Sangh, and popularly known as “Waterman of India”).
- Organized Two Days Cycle Rally under Mission LiFE Campaign to promote sustainable Lifestyle, during 01st – 2nd June 2023.
- Organized Community Awareness programme under Mission LiFE on 01.06.2023 at IIT(ISM) Campus residential area.
- Organized celebration of World Bicycle Day on 03.06.2023.
- Organized invited guest lecture series under Mission LiFE (Invited Speaker: Sri Sanjeev Kumar, Addl. Principal Chief Conservator of Forest, CAMPA, Govt. of Jharkhand), the inauguration of Special Edition of Monograph on Mission LiFE (ISSN: 0972-4656), plantation program and other activities on the occasion of World Environment Day 2023 (Theme: Solutions to Plastic Pollution), on 05.06.2023.
- Organized Round Table Conference with Dhanbad Administration for Dhanbad District Scientific Water Conservation Plan, proposed by IIT(ISM) Dhanbad on 09th – 10th June 2023.
- Organized Yoga Workshop on the occasion of International Yoga Day 2023, in-line with Mission LiFE on 21.06.2023.
- Organized workshop on Demonstration of "Matka Plantation using Recharge Technique" on 23.06.2023.
- 1st National Conference on MissionY: Land Acquisition for Rivers (22-23 March 2026) at IIT(ISM) Dhanbad, Jharkhand.
- Organized Bharat Yoga Yatra: Step into Spirituality (24-26 April 2026), IIT(ISM), Dhanbad Jharkhand.

18. Sponsored Projects (R & D Projects):

S. No.	Project Title	Project Cost (Lakh)	Role	Funding Agency	Duration	Status
1.	Baseline study of Bagjata and Bhandurang Uranium Mine Deposit in Jadugoda, Jharkhand, India	34	Co-PI	BRNS	2007-10	Completed
2.	Regional Environmental Impact Assessment Study of Goa Region	200	Co-PI	MoEF&CC	2011-14	Completed
3.	Phosphorus fractionation in surface and core sediments: An Implication in Restoration and Conservation of Govind Ballabah Pant Sagar, Singrauli, M.P.	32.48	PI	MoES	2014-18	Completed
4.	Geochemical investigation of heavy metals and REEs in water and surface sediments: An implication in restoration and conservation of Ken and Betwa Rivers.	24.64	PI	DST	2015-18	Completed
5.	Quantification of agricultural biomass in the river bed of Rihand Ecosystem: Understanding the impact of climate change on farming practices in peninsular India	3.71	PI	DST(FICCI)	2019	Completed
6.	Biogeochemical appraisal of the groundwater nitrate pollution due to agricultural activities in Son River Basin, India	3.71	PI	DST(FICCI)	2019-20	Completed
7.	Preparation of Catchment Treatment Plan of Izri river	35.40	PI	VEDANTA	2020-21	Completed
8.	Identification of suitable sites and designing of environment-friendly rainwater harvesting structures for catching the rain where it falls when it falls in the IIT(ISM) campus area	8.80	PI	IIT(ISM) Dhanbad	2020-21	Completed
9.	Delineation of the administrative boundary of the Banki River, Garhwa District, Jharkhand: an implication in restoration and conservation of the Ganga River Basin	21	PI	IIT(ISM) Dhanbad	2021-24	Completed
10.	Rejuvenation of existing waterbodies and identification of suitable locations for storing surface water for sustainable water supply in Dhanbad Municipal Corporation Area	8.20	PA	IIT(ISM) Dhanbad	2022-23	Completed
11.	Remote Sensing and GIS-based Assessment of Dehgaon Bamori Forest Range: An Implication in Restoration and Conservation of Betwa River Basin, Central India	3.71	PI	DST(FICCI)	2023	Completed
12.	EIACP (PC-RP) IIT(ISM) Dhanbad on Environmental Problems of Mining	67.57	PI	MoEF&CC	2021-24	Completed
13.	Integrated non-invasive geophysical, archaeological and biogeochemical characterization of Ithkhouri Heritage sites in the Mohane River Valley	126	Co-PI	DST	2022-25	Completed

14.	Inspection of GPIs for Compliance Verification	11.682	PI	CPCB	2024	Completed
15.	Setting up Mining, Employability and Livelihoods (MEL) CoE	50	PI	AIF	2024	Completed
16.	Impact of climate change on vulnerable aquifer systems in and around industrial and mining areas of Damodar River Basin (Eastern India) using GIS based Modified DRASTIC Model and Global Climate Model.	78.79804	PI	DoWR RD&GR MoJS	2024-27	On-going
17.	Monitoring, Evaluation, and Reporting of the Miyawaki Plantation at Chas (Ahilyanagar District, Maharashtra) and Amoda (Raisen District, Madhya Pradesh)	2.36	PI	GGFI	2026-27	On-going

19. Consultancy Projects:

S. No.	Project Title	Project Cost (Lakh)	Role	Funding Agency	Duration	Status
1.	Regional Development Programme of Angul-Talcher Areas of Orissa, India	53.00	Co-PI	OSPCB	2007-10	Completed
2.	Biodiversity Study for Environmental Impact Assessment & Environment Management Plan of Rolep Hydro Electric Power Project	11.90	PI	Velankani Energy PVT. LTD	2014-15	Completed
3.	Technical Consultancy for wastewater management and control of water pollution from plant and mines of BIOM, Bachel, Complex	14.25	PI	NMDC, Bachel,	2015-16	Completed
4.	Testing of Ground Water Quality in nearby villages of the project and suggesting measures for improvement of water quality	25.00	PI	NMDC, Kirandul	2016-18	Completed
5.	Analysis of soil quality of agriculture field adjacent BIOM Kirandul Complex within the catchment area of Talperu, Minachel, Malangir, Sankini and Dankini rivers	6.61	PI	NMDC, Kirandul	2016-18	Completed
6.	Preparation of EIA/EMP of Shivani OCP, WCL	1.03	PI	CMPDIL, Nagpur	2013	Completed
7.	Preparation of EIA/EMP of Niljai Expn. (Deep) OC Wani Area, WCL	1.05	PI	CMPDIL, Nagpur	2013	Completed
8.	Preparation of EIA/EMP of Patherdih Coal Washery, BCCL	0.92	PI	CMPDIL, Dhanbad	2015	Completed
9.	Preparation of EIA/EMP of Kusmunda OCP Exp, SECL	1.05	PI	CMPDIL, Bilaspur	2015	Completed
10.	Preparation of EIA/EMP of Balaram OCP Exp, ECL	1.05	PI	CMPDIL, Bhubaneswar	2015	Completed
11.	Preparation of EIA/EMP of Ajoy and Damodar River bed for sand mining	2.17	PI	CMPDIL, Asansol	2015	Completed
12.	Preparation of EIA/EMP of three WCL projects	2.17	PI	CMPDIL, Nagpur	2015	Ongoing
13.	Preparation of EIA/EMP of four BCCL projects	3.26	PI	CMPDIL, Dhanbad	2016	Completed
14.	Preparation of EIA/EMP of Ten CCL projects	7.62	PI	CMPDIL, Ranchi	2016-20	Completed
15.	Hydrogeology and Water Sustainability Study around DB Power Plant	12.25	PI	DB Power Raigarh	2018-19	Completed
16.	Water Sustainability Study around RKM Power Plant	7.75	PI	RKM Power Raigarh	2018-19	Completed
17.	Impact of Coal Transportation on Kosa Silk Production	3.75	PI	RKM Power Raigarh	2018	Completed
18.	Comprehensive Assessment of Impact of Road on Local Biodiversity, Wildlife Corridors and its Mitigation Strategy along 277.3 km Chennai Salem Greenfield Corridor	35.40	PI	NHAI, Chennai	2018-20	Completed
19.	Effect on Ecosystem Services available in the proposed mining area and assessment of carrying capacity of the extent ecology therein	25.96	Co-PI	SECL, Bilaspur	2021-22	Completed
20.	Cumulative Impact Assessment Study, Carrying Capacity Study and Ecosystem Services Study as per condition of Terms of References (ToR) for Expansion of Nigahi Opencast Coal Mining Project from 21 Mtpa to 25 Mtpa with increase in leasehold area from 3018.40 ha to 3582.723 ha	130.626	PI	NCL, Singrauli	2022-23	Completed
21.	Environmental sustainability management study of Surjagarh iron ore Mining Project	23.60	Co-PI	Lloyds Limited	2024	Completed
21.	A scientific study on the assessment of the impact of mine blasting	206.50	Co-	BCL	2024	Completed

	operations on environmental pollution and important structures of Chittorgarh Fort for suggesting suitable Remedial Measures.		PI			
22.	Hydrology & Kewari Nala Diversion Study located at Jitpur Coal Block, District - Godda; Jharkhand	17.70	PI	TMPL	2025	Completed
23.	Scientific study for investigation of mine-wise water availability and potential for community use in ECL	71.98	Co-PI	ECL	2024-25	Completed

20. M. Tech Supervision:

S. No.	Candidate	Title of the Research Thesis	Guide/Co-guide	Status
1	Nisita Ranjan	Carbon sequestration potential of Miyawaki plantation on Panchayat Land; An implication in ESG framework of Adarsh Gram Model	Guide	Ongoing
2	Rounak Mondal	Geogenic assessment of critical minerals in coal mining regions	Guide	Ongoing
3	L. K. Khatri	Rainfall-driven prediction of heavy metal leaching from mine waste of the JCF using ANN	Guide	Completed 2026
4	Pranjal Yadav	Study on soil adsorption capacity for nutrients (Nitrate and Phosphate)	Guide	Completed 2026
5	Rakesh Kumar	Groundwater assessment in and around Jhiri Dumping site, Ranchi, Jharkhand	Guide	Completed 2025
6	Mukesh Kumar	Physico-chemical assessment of soil quality in and around Jhiri Dumping site, Ranchi, Jharkhand	Guide	Completed 2025
7	Ravikant Singh	Assessment of groundwater vulnerability in Khudia watershed of Damodar River basin using Modified DRASTIC Model	Guide	Completed 2024
8	Pappu Kumar	Assessment of groundwater vulnerability in Katari watershed of Damodar River basin using Modified DRASTIC Model	Guide	Completed 2024
9	Varsha B	The study of ecosystem services of coal mining industries in NCL region	Guide	Completed 2023
10	Payal P. Gothale	LULC preparation, change detection and future prediction of Chandrapur District, Maharashtra	Guide	Completed 2022
11	Rahul K. Sharma	Morphometric analysis of Wardha river sub-basin in Chandrapur District, Maharashtra	Guide	Completed 2022
12	Abhinav Ranjan	A review on the infiltration capacity of different soils and comparing different mathematical models for estimating infiltration rate based on the ground data	Guide	Completed 2021
13	Mannu Nayak	Reduction of Lead Metal from Contaminated Soil by Bioremediation	Guide	Completed 2020
14	Anirban Ray	Evaluation of water quality suitability for drinking using WQI in Kolkata and assessment of the health risk associated with it	Guide	Completed 2019
15	Nitish Kumar	Soil loss estimation in Damodar River basin using GIS as a tool	Guide	Completed 2019
16	Rishu Kant Singh	Assessment of groundwater quality due to Arsenic and potential health risk assessment in Bhagalpur District, Bihar	Guide	Completed 2019
17	Ashutosh Anand	Evaluation of WQI and their HRA in Public School of Dhanbad Region	Guide	Completed 2018
18	Abhishek Anand	Evaluation of GWI and HRA in Dumka Township Area, Jharkhand	Guide	Completed 2018
19	Zeeshan Ali	Carbon Sequestration Study at Ecorestored Site of BCCL, Dhanbad	Guide	Completed 2018
20	Manish Kumar	Health risk assessment of heavy metals in groundwater in Dantewada, Chhattisgarh	Guide	Completed 2017
21	Nikki Chanda	Study on geochemistry of groundwater of Dantewada District, Chhattisgarh	Guide	Completed 2017
22	Abhay Kumar	Study on groundwater quality index of Dantewada District, Chhattisgarh	Guide	Completed 2017
23	D. K. Sahoo	Assessment of fluoride pollution in Koraput District, Odisha	Guide	Completed 2016
24	Ahmad Nawaz	Black carbon emissions from the cracks of mine fire areas of Jharia Coal Field, Dhanbad, India	Guide	Completed 2016
25	Rahul Agrawal	Use of three step sequential extraction procedure (BCR) for micronutrient fractionation in agricultural soil around Jharia Coal Field, Jharkhand	Guide	Completed 2015
26	Gaurav Tanwar	Fractionation of micronutrients in the agriculture soil of Jharia, using Tessier Method	Guide	Completed 2015
27	Jhuma Sarkar	Use of three step sequential extraction procedure (BCR) for micronutrient fractionation in forest soil around Jharia Coal Field, Jharkhand	Guide	Completed 2015
28	Kriti Shukla	Study on Physico-chemical Characterization and phosphorus fractionation in agricultural soil of Sidhi district	Guide	Completed 2014

29	Bijendra Kumar	Study on Physico-chemical Characterization and estimation of fluoride in agricultural soil of Sidhi district, M.P.	Guide	Completed 2014
30	Ashsih Kumar	The study on geochemistry of Govind Ballabh Pant Sagar, Singrauli, India	Guide	Completed 2013
31	M.K. Ghritlahre	Industrial and domestic effluent treatment and its reutilization	Guide	Completed 2013
32	S.K. Yadav	Study of plantation on Mine spoil In Northern Coalfield	Guide	Completed 2012
33	Manisha Rani	Impact of sedimentation on Eutrophication of Govind Ballabh Pant Sagar, Uttar Pradesh	Guide	Completed 2012
34	Ashvani Kumar	Assessment of soil quality and soil respiration of Dugdha Coal Washery of Jharia Coalfield	Guide	Completed 2011
35	Awinash Kumar	Assessment of soil quality and soil respiration of Patherdih Coal Washery of Jharia Coalfield	Guide	Completed 2011
36	Singdha Pradhan	Effect of radiation on microbial activity and soil fertility in the Jharia Coal Field, Jharkhand	Guide	Completed 2010
37	Rajesh Chandra	Radiation survey of open cast coal mines: An implication in mine fire mitigation in Jharia Coalfield, Jharkhand	Guide	Completed 2010

21. Ph. D Supervised: Awarded/On-going:

S.No.	Reg. No.	Candidate	Title of the Research Thesis	Sole Guide/ Co-guide	Status
1.	24DR0311	U.Chatterjee	Wetland management in small watersheds	Sole Guide	On-going
2.	24DR0091	M. Utthasini	Crop mapping in small watersheds	Sole Guide	On-going
3.	23DR0210	Renu	Morphometric assessment of small watersheds	Sole Guide	On-going
4.	23DR0029	A Singh	Environmental impact assessment of groundwater resources in the Buxwaha region of Central India	Sole Guide	On-going
5.	22DR0332	S. Sarkar	In the Realm of Tigers: Estimation of Aboveground Biomass in Palamu Tiger Reserve Using Geospatial Technology	Sole Guide	On-going
6.	22DR0166	P. Khanna	Biogeochemical assessment of soil diversity in and around Buxwaha region of Central India	Sole Guide	On-going
7.	22DR0182	R. K. Gupta	Study on river-aquifer interaction in Lower Ganga River Basin	Sole Guide	On-going
8.	21DR0149	Roja Eliza	Biogeochemical assessment and carbon sequestration potential of riparian soils in the lower Ganga River Basin	Sole Guide	On-going
9.	2015DR1041	P. B. Prasad	Study on influence of fly ash properties on the preparation of high strength concrete	Sole Guide	On-going
10.	2017DR00016	R. Jain	Possible implications of bioavailable iron in coal mine dust on coal workers' lung disease	Principal Guide	Awarded 2025
11.	18DR0121	S. Kumar	Biogeochemical assessment of carbon fractions, CO ₂ efflux and associated climate and health risks in upland and riparian soils of the Ganga River basin	Sole Guide	Awarded 2024
12.	2016DR0105	M Venkatesh	Geochemical Investigation of Heavy Metals and REEs in Water and Surface Sediments: An Implication in Restoration and Conservation of Ken and Betwa Rivers	Sole Guide	Awarded 2023
13.	2015DR1138	A.K. Mishra	Study on environmental impact assessment of Archeological Structures in the State of Haryana, India	Sole Guide	Awarded 2022
14.	2014DR0286	B Kumar	Phosphorus fractionation in surface sediment: an implication in restoration and conservation of Govind Ballabab Pant Sagar, Singrauli, M.P.	Sole Guide	Awarded 2020
15.	2015DR1033	BK Panda	Study on morphometry and water chemistry of the Ken River system, central India	Sole Guide	Awarded 2019
16.	2016DR1014	A Kumar	Atmospheric studies using remote sensing techniques and in-situ measurements over the Himalayan region	Sole Guide	Awarded 2019
17.	2015DR1141	M Mehta	A global study on spatiotemporal variability of aerosol inferred from space borne measurement	Sole Guide	Awarded 2019
18.	2014DR0007	K Priyanka	Soil Carbon fractions in agricultural and forest soils in Jharia Coalfield region, Jharkhand, India	Sole Guide	Awarded 2018
19.	2015DR1034	A Barman	Study on diversity of Pumpkin (<i>Cucurbita moschata</i> Duch. Ex Poir.) germplasms of Garo Hills, Meghalaya, India	Sole Guide	Awarded 2018

20.	2014DR0189	Kriti Shukla	Study on biogeochemistry of some micronutrients in agricultural soils around Sidhi district, M.P., India	Sole Guide	Awarded 2018
21.	2013DR0263	A Hasnsda	Isolation and characterization of Cu(ii) reducing Pseudomonas sp. And their plant growth promoting activity.	Co-guide	Awarded 2018
22.	2010DR0119	Lata Dora	Study of phytoplankton community as a bioindicator of water pollution in Damodar River	Co-guide	Awarded 2016
23.	2013DR0060	Asmaa Naz	Study on ground water quality and heavy metal toxicity in the Sidhi District, M.P., India	Sole Guide	Awarded 2016
24.	2012DR0155	C. Narayan	Study on plant diversity in tropical deciduous forest of Bokaro District, Jharkhand, India	Sole Guide	Awarded 2016
25.	2011DR0053	S Mishra	Study on diversity of leguminous and non-leguminous species in Jharia Coalfield, Jharkhand	Sole Guide	Awarded 2015
26.	2010DR0029	Tripti	Study on pesticide tolerant bacteria and their phosphate solubilisation activity: An approach towards biofertilizer preparation	Co-guide	Awarded 2014

22 A. International Students/Project Fellows:

Registration No.	Candidate	Title of the Research Thesis	PI/Co-PI	Status
DST(FICCI)/RTF/2018/000041	Phuong Quynh Ngo	Quantification of agricultural biomass in the river bed of Rihand Ecosystem: Understanding the impact of climate change on farming practices in peninsular India	PI	Completed
DST(FICCI)/RTF/2019/000066	Duong Cong Vinh	Biogeochemical Appraisal of the Groundwater Nitrate Pollution due to Agricultural Activities in Son River Basin, India	PI	Completed
DST(FICCI)/RTF/2020/000143	Thanh Van Nguyen	Remote Sensing and GIS based Assessment of Dehgaon Bamori Forest Range: An Implication in Restoration and Conservation of Betwa River Basin, Central India	PI	Completed

22 B. Indian Students/Project Fellows:

Project No.	Candidate	Title of the Project	PI/Coordinator	Status
SRDP 1158 G	Rahul K. Pandey (SRF)	Impact of climate change on vulnerable aquifer systems in and around industrial and mining areas of Damodar River Basin (Eastern India) using GIS based Modified DRASTIC Model and Global Climate Model	PI	On-going
SRDP 1158 G	Koushik Banerjee (JRF)	Impact of climate change on vulnerable aquifer systems in and around industrial and mining areas of Damodar River Basin (Eastern India) using GIS based Modified DRASTIC Model and Global Climate Model	PI	On-going
SRDP 1158 G	Vivek N Shaji (JRF)	Impact of climate change on vulnerable aquifer systems in and around industrial and mining areas of Damodar River Basin Eastern India) using GIS based Modified DRASTIC Model and Global Climate Model	PI	On-going
PDF	Bhaskar Kumar	Field and laboratory assiatatnt	PI	On-going
AIFT/2024-2025/05/ESE	Dr. Megha Tyagi (Project Scientist)	Setting up Mining, Employability and Livelihoods (MEL) Centre of Excellence	PI	On-going
AIFT/2024-2025/05/ESE	P. K. Gope	Setting up Mining, Employability and Livelihoods (MEL) Centre of Excellence	PI	On-going
No. A-33015/1/2023-P.I/MoEF&CC (04.05.2023) GOUR4782	Gourab Kumar Giri	Geophysical survey of aquifers in coal mining areas – an overview	PI	Completed
IIT(ISM)/2021-2022/26/INSTITUTE (13.12.2021)	Rahul K. Pandey	“Delineation of the Administrative Boundary of the Banki River, Garhwa District, Jharkhand: An Implication in Restoration and Conservation of the Ganga River Basin”	PI	Completed
IIT(ISM)/2021-2022/26/INSTITUTE (17/12/2021)	Rahul K. Gupta	“Delineation of the Administrative Boundary of the Banki River, Garhwa District, Jharkhand: An Implication in Restoration and Conservation of the Ganga River Basin”	PI	Completed
MoEFCC (EIACP-PC)/2022-2023/22/ESE	Bishwajit das	EIACP (PC-RP) IIT(ISM) on Environmental Problems of Mining	Coordinator/PI	Completed
MoEFCC (EIACP-PC)/2022-2023/22/ESE	Durga D. Chandra	EIACP (PC-RP) IIT(ISM) on Environmental Problems of Mining	Coordinator/PI	Completed
MoEFCC (EIACP-PC)/2022-2023/22/ESE	Dr. Parul Maurya	EIACP (PC-RP) IIT(ISM) on Environmental Problems of Mining	Coordinator/PI	Completed
MoEFCC (EIACP-PC)/2022-2023/22/ESE	Supriya Bistu	EIACP (PC-RP) IIT(ISM) on Environmental Problems of Mining	Coordinator/PI	Completed
No. A-33015/2/2022-P.I/MoEF&CC (31.01.2023) GOVI3156	Govind Kumar	A GIS-based approach to delineate the morphometric characteristics of Khudia watershed in Jharia Coalfield Region, Dhanbad District, Jharkhand	PI	Completed
No. A-33015/2/2022-P.I/MoEF&CC (31.01.2023)NARE6387	Narendra Prasad	A GIS based approach to delineate the morphometric characteristics of Katri River watershed in Jharia Coalfield Region of Dhanbad District, Jharkhand	PI	Completed
MoES/P.O. (Geosci)/15/2013 (26/04/2014)	Bijendra Kumar (JRF & SRF)	Phosphorus fractionation in surface and core sediments: An Implication in Restoration and Conservation of Govind Ballabah Pant Sagar, Singrauli, M.P	PI	Completed
EMR/2015/000448 (22/09/2015)	M. Venkatesh (JRF & SRF)	Geochemical Investigation of Heavy Metals and REEs in Water and Surface Sediments: An Implication in Restoration and Conservation of Ken and Betwa Rivers.	PI	Completed

24. List of Publications [As per the guidelines notified by the IIT(ISM), Dhanbad]:

24.1 Publications in SCI/SCIE Journals (Web of Science):

1. Roja Eliza, Rahul Kumar Pandey, Sanchit Kumar, Anshumali (2026). Assessment of groundwater development in watersheds using novel hydrosociological indicators and machine learning approach. *Environmental and Sustainability Indicators*, 30: 101220. (WoS Q1, Elsevier, Impact Factor 5.6)
2. Roja Eliza, Rahul Kumar Pandey, Anshumali (2026). Spatio-temporal assessment of soil biogeochemical properties and CO₂ efflux in a dry tropical watershed of India. *Geoderma Regional*, 45, e01074 (WoS Q2, Elsevier, Impact Factor 3.3)
3. Rahul Kumar Pandey, Anshumali, A.K. Singh (2026) Disappearing streams and morphometric degradation in small watersheds of the Ganga River basin. *Discov Water* (2026). <https://doi.org/10.1007/s43832-025-00333-8>
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4. Anshumali, Apporva Singh, Roja Eliza, Rahul Kumar Pandey, Rakesh Kumar (2025). Water quality and geochemical assessment of terracotta dugwells: an implication in restoration and conservation of ancient civilization. Abstract accepted, [Paper ID 425], In: 10th International Groundwater Conference 2025- Groundwater Vision 2047: Towards Water Security Under Changing Climate, March 05-07, 2025, NIH Roorkee, India
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