

Prof. Brijesh Kumar Mishra			
Professor Department of Environmental Science & Engineering Indian Institute of Technology (ISM) Dhanbad Dhanbad-826004, Jharkhand, India			
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ACADEMIC BACKGROUND			
Name of Degree	Branch / Specialization		College/Institute/University
Ph.D.	Environmental Sci. & Engineering	IIT(ISM) Dhanbad, Jharkhand, India	2014
M. Tech	Environmental Engineering	MNNIT Allahabad, UP, India	2004

ABOUT: Prof. Brijesh Kumar Mishra is a Professor in the Department of Environmental Science & Engineering at the Indian Institute of Technology (ISM) Dhanbad, where he has been a faculty member since 2011. He obtained his Ph.D. in Environmental Science & Engineering from IIT (ISM) Dhanbad and his M.Tech. in Environmental Engineering from MNNIT Allahabad. His research focuses on advanced water and wastewater treatment, mine environment management, industrial waste utilization and resource recovery (circular economy), Environmental Impact Assessment (EIA), Environmental Risk Assessment (including human health and ecological risk), environmental monitoring, and sustainable pollution mitigation.

Prof. Mishra has successfully led **18 sponsored research projects** (16 completed and 2 ongoing) funded by premier agencies, including the Department of Science & Technology (DST), Ministry of Environment, Forest and Climate Change (MoEF&CC), Ministry of Jal Shakti, and Ministry of Coal, addressing sustainable water management, pollution exposure assessment, resource recovery, and environmental protection. He has also undertaken **46 consultancy assignments** (42 completed and 4 ongoing) for leading public and private organizations such as Hindalco, Lloyds Metals, Coal India, NTPC, NMDC, Tata Steel, DVC, Lanco, CSEB, Thriveni, and the Ministry of Jal Shakti. His consultancy expertise spans Environmental Impact Assessment, environmental auditing, environmental risk analysis, mine water management, ash dyke stability assessment, groundwater and surface water investigations, fly ash and red mud utilization, tailings management, wastewater treatment, environmental monitoring, waste characterization, carrying capacity assessment, and regulatory compliance.

He has published **59 SCI/SCIE-indexed journal articles**, **12 book chapters**, and **32 conference papers**, and is the recipient of the **Springer Nature Author Award (2025)**. He also holds a **granted patent** on heavy metal removal and its application in energy storage. Prof. Mishra has supervised **11 Ph.D. scholars**, is currently guiding **14 doctoral candidates**, and has mentored **over 40 postgraduate students**. In addition to his research contributions, he actively serves on government technical committees, contributes to policy development, and conducts professional training and capacity-building programmes. His work effectively bridges academia, industry, and government, translating scientific research into sustainable environmental technologies and evidence-based solutions for water, mining, and industrial sectors.

RESEARCH INTERESTS

1. Advanced Water and Wastewater Treatment (Design, Feasibility, and Technology Development)
2. Water Quality Monitoring, Assessment, and Management
3. Environmental Impact Assessment (EIA) and Environmental Risk Assessment (covering Pollution Exposure Pathways, Human Health Risk, and Ecological Risk Analysis)
4. Mine Environment Management and Reclamation
5. Utilization, Treatment, Disposal, and Resource Recovery from Industrial Waste (Circular Economy Approaches)

PROFESSIONAL APPOINTMENTS

1. **20.04.2026 to till now:** Professor of Env. Sci. & Engg., IIT(ISM), Dhanbad
2. **12.04.2021 to 19.04.2026:** Associate Professor of Env. Sci. & Engg., IIT(ISM), Dhanbad
3. **14.06.2011 to 11.04.2021:** Assistant Professor of Env. Sci. & Engg., IIT(ISM), Dhanbad

LIST OF PUBLICATION:

1. International Journal (SCI/SCIE Index): **59 (Average Impact factor: 5.18)**
2. International Journal (Scopus Index): **04**
3. Book Chapter: **12**
4. International & National Conference: **32**
5. Publication Award: **Author Award by Springer Nature in year 2025**

RESEARCH GUIDANCE

1. RA/IPDF: 02+01 (**Ongoing**)
2. Ph. D Guidance (**Awarded**): **09** (Sole Guide) + **02** (Co-guide)
3. Ph. D Guidance (**Ongoing**): **07** (Sole Guide: Regular) + **07** (Sole Guide: Part Time)
4. M. Tech Guidance (**Awarded**): **26** (Sole Guide) + **01** (Co-guide)
5. M. Tech Guidance (**Ongoing**): **02** (Sole Guide)
6. M.Sc Guidance (**Awarded**): **08** (Sole Guide) + **02** (Co-guide)

RESEARCH PROJECTS

1. Research Projects: **16 (Completed)**+ 02 (Ongoing)
2. Consultancy Projects: 42 (**Completed**) +04 (Ongoing)

PATENT

1. Patent Published: 01

DETAILS OF COURSE TAUGHT

1. Basics of Environmental Engineering- NESE 101: (B Tech Civil Engg)
2. Drinking Water Supply and Treatment- NESC 101: (B Tech Env Engg)
3. Earth System Science-ESD12301: (B. Tech Common)
4. Pollution Control and Management-ESE 201: (B Tech common, ESO)
5. Water and Wastewater Engineering-ESM 16101: (B. Tech Minor)

6. Introduction to Environmental Engineering-ESM 15101: (B. Tech Minor)
7. Principle & Design of Water Supply System-ESC 16101: (B. Tech Env. Engg.)
8. Environmental Engineering Design-II (S)-ESH 17102: (B. Tech Env. Engg.)
9. Environmental Engineering-I- ESC14151: (B Tech Civil Engg.)
10. Environmental Engineering-II- ESC15151: (B Tech Civil Engg.)
11. Environmental Chemistry-ESC 51103: (M. Tech Environmental Science & Engg)
12. Water Supply and Treatment-ESC 502: (M. Tech Env. Science & Engg)
13. Environmental Engineering-ESE 52101: (M. Tech Fuel Engg.)
14. Advanced Water & Wastewater Treatment-ESD 505: (B Tech & M Tech)
15. Research Methodology-ESC 700: (Research Scholar of ESE)

DETAILS OF ADMINISTRATIVE EXPERIENCE

1. Empanelment Member of Independent Institutions for appraisal of Detailed Project Report (DPRs) under National River Conservation Plan (NRCP). **(July 2024 to till now)**
2. Member of Selection Committee (Non-Teaching Post of IIT(ISM) Dhanbad **(December 2023 to till now)**
3. Expert member for Expert Procurement Committee Jharkhand Pollution Control Board **(August 2024 to till now)**
4. Expert Member for Technical Expert Committee for implementation of “Framework on Identification of Materials Generated from Industrial Processes as Waste or By-Products” Government of Jharkhand **(May 2024 to till now)**
5. Expert Member in the State Level Task Force Committee of Department of Health, Medical Education, & Family Welfare, Government of Jharkhand **(March 2024 to till now)**
6. Empanelment as experts in AICTE **(February 2024 to till now)**
7. Member of Environmental Advisory Committee (EAC) of the Institute **(October 2023 to till now)**
8. Expert member of the Technical cum verification committee of Jharkhand Pollution Control Board **(June 2022 to till now)**
9. Departmental Training & Placement In charge **(March 2022 to May 2024)**
10. Convener DPGC **(September 2022 to October 2024)**
11. Departmental member of NABL **(July 2020 to March 2024)**
12. Nodal Officer/Coordinator of Key resource center, Ministry of Jal Shakti, New Delhi **(June 2021 to March 2024)**
13. Expert member of STAC committee of Jharkhand Government **(May 2018 to till now)**
14. Departmental in charge of Environmental laboratories of CPCB, New Delhi **(February 2018 to February 2023)**
15. Departmental coordinator of CRF **(January 2017 to September 2024)**
16. Laboratory in-charge of Environmental Chemistry lab **(Since July 2012 to till now)**
17. Member M Tech admission committee **(November 2021 to October 2022)**
18. Member of DUGC **(August 2018 to September 2022)**
19. Member of DFSC **(October 2018 to November 2020)**
20. Timetable in-charge **(January 2016 to August 2020)**
21. Departmental coordinator of Library **(January 2012 to December 2018)**

MEMBER OF PROFESSIONAL BODIES

1. Indian water works association (Lifetime- LM-7362)

2. The Mining, geological and metallurgical institute of India (Lifetime-10163)

DETAILS OF PATENT FILLED/PUBLISHED/GRANTED

Sl. No.	Title of the Patent	Inventor(s)	Status (granted/ published/ filed)	Patent No/Patent Application No.
1	An adsorbent from cow dung for the removal of metal ions from wastewater and further use as an electrode in supercapacitor	Dr. Sonalika, Dr. Sourav Acharya, Prof. B K Mishra, and Prof. G C Nayak	Granted	583157

DETAILS OF ONGOING/COMPLETED PROJECTS

A) Details of ongoing/completed R&D projects

Research Projects (18)			
S&T Projects	Industry projects	Institute Projects	TEQIP
09	05	03	01

S. No	Title of the Project	Funding Agency	Sanctioned Date & Amount (Lakhs)	Role	Status
1.	Study of River Health of River Teesta in Sikkim (SRDP 1264 G)	Government of Sikkim	DoS: 21.01.2026 Amount: 70.37	PI	Ongoing
2.	Scientific Study to Assess the Ground and Surface Water Quality at Muri for Pre-Monsoon and Post Monsoon (SRDP 1207 I)	Hindalco	DoS: 26.06.2025 Amount: 10.03	PI	Completed
3.	Impact of Climate Change on vulnerable aquifer in and around Industrial and Mining Areas of Damodar River Basin (Eastern India) using GIS based Modified DRASTIC Model and Global Climate Model (SRDP 1158 G)	Ministry of Jal Shakti	DoS: 20.12.2024 Amount: 78.79	Co-PI	Ongoing
4.	Inspection of GPIs for Compliance Verification (CPCB(MoEF&CC)/2023-24/1098/ESE)	CPCB (MoEF&CC)	DoS: 26.03.2024 Amount: 11.68	Co-PI	Completed
5.	Cow dung derived hybrid adsorbent for heavy metal removal and its subsequent utilization as cheaper electrodes for energy storage devices (DST(SEED)(290)/2021-	DST	DoS:25.06.2021 Amount: 38.43	PI	Completed

	2022/805/ESE)				
6.	Key resource centre (DDWS(NJJM)/2021-2022/807/ESE)	Ministry of Jal Shakti	DoS:23.07.2021 Amount: 1.77	PI	Completed
7.	Identification of suitable sites and designing of environmental friendly rainwater harvesting structures for catching the rain where it falls when it falls in the IIT(ISM) campus area (DRD-11014/43/2021-ES)	IIT(ISM)	DoS:23.06.2021 Amount: 8.80	Co-PI	Completed
8.	Monitoring of air quality and analysis of water samples and noise monitoring at different points of Washery of Chasnalla. (SAIL/2018-19/617/ESE)	SAIL	DoS:09.01.2019 Amount: 8.49	PI	Completed
9.	Monitoring of air quality and analysis of water samples monitoring at different points of Washery of Jitpur. (SAIL/2018-19/621/ESE)	SAIL	DoS: 26.11.2018 Amount: 4.99	Co-PI	Completed
10.	Hydrological study and assessment of ground water/surface water (HINDALCO/2020-2021/717/ESE)	Hindalco	DoS:02.05.2018 Amount: 6.75	PI	Completed
11.	High Ash Coal Gasification and Associated Upstream and Downstream Processes (Coal to Chemicals, CTC) CIL (8)/2017-2018/539/CHEMICAL ENGG	CIL	DoS:17.07.2017 Amount:1872.007	Co-PI	Completed
12.	Remediation of Ground Water Contaminated with Hexavalent Chromium in Sukhina Valley, Odisha, using Nano Zero Valent Iron (nZVI) Technology (MoEF(1)2015- 16/443/ESE)	MoEF&C C	DoS:03.03.2017 Amount: 24.80	Co-PI	Completed
13.	Study to develop and improved nitrification in AIS at BOT Plant Tata Steel/2017-18/535/ESE	Tata Steel	DoS:03.05.2017 Amount: 11.80	Co-PI	Completed
14.	Control of Disinfection by Products formation in drinking water supplies of India MDWS/2015-16/453/ESE)	MRD, New Delhi	DoS:15.03.2016 Amount: 25.2	Co-PI	Completed
15.	Influence of Chlorine Disinfectant and Natural Organic Matter Gradients on Disinfection By-Product Formation in Drinking	SERB-DST	DoS:14.02.2014 Amount: 23.186	PI	Completed

	Water of Some Indian Cities (DST(95)/2013-2014/ 381/ESE)				
16.	Investigation of the electrocoagulation technique process for the removal of Fe (II) from tap water of ISM campus (TEQIP/BKM/ESE)	TEQIP - II	DoS:01.06.2013 Amount: 1.00	PI	Completed
17.	Assessment of disinfection requirement for drinking water in ISM Campus Dhanbad (Minor/BKM/ESE)	ISM Dhanbad	DoS:01.09.2012 Amount:0.99	PI	Completed
18.	Electro Kinetic Removal of Toxic Contaminants from Municipal Sewage Sludge (FRS(39)/2012-13/ESE)	ISM Dhanbad	DoS:01.03.2013 Amount:8.65	PI	Completed

B) Details of ongoing/completed consultancy projects

Consultancy Projects (46)	
PSU/Government	Private/Ltd
22	24

S. No.	Consultancy Name	Funding agency	Amount (Lakhs)	Role	Status
1.	Study of Ground water and Surface water around Red Mud Pond and nearby area of Muri Unit (CONS 7714 C)	M/s Hindalco	10.03	CI	Ongoing
2.	Feasibility study for development of an Underground Mine at Quarry-F (Band- IV) of South Kaliapani Chromite Mine of OMC Ltd (Phase-II) (CONS 7700 C)	M/S OMC Limited, Bhubaneswar	295.00	Co-CI	Ongoing
3.	Feasibility study for development of an Underground Mine at Quarry- F (Band-IV) of South Kaliapani Chromite Mine of OMC Ltd (Phase-I) (CONS 7674 C)	M/S OMC Limited, Bhubaneswar	41.30	Co-CI	Ongoing
4.	Independent Third-Party Performance Audit of Red Mud Disposal Areas (RMDAS) as per CPCB guidelines (CONS 7575 C)	M/s Hindalco	54.28	CI	Ongoing
5.	Rehabilitation of the Sewerage System of Melli Town, for Pollution Abatement of River Tista in Sikkim" under NRCP (CONS 7584 C)	Ministry of Jal Shakti	2.36	CI	Completed

6.	Environmental Audit of the Surjagarh Mines for effectiveness of the EMP (CONS 7576 C)	Lloyds Metals & Energy Ltd	17.70	CI	Completed
7.	Environmental Sustainability Study for Dalpahar Iron & Manganese Mine (CONS 7527 C)	Thriveni, Orissa	10.03	CI	Completed
8.	Environmental Safeguard Assessment Related to BHQ Beneficiation (CONS 7524 C)	Thriveni, Orissa	5.90	CI	Completed
9.	A Scientific Study for the Comprehensive Environmental and Stability Assessment of Iron Ore Tailings (CONS 7395 C)	Lloyds Metals & Energy Ltd	53.10	CI	Completed
10.	Appraisal of DPR "Rehabilitation of the Sewerage System of Singtam Town, Sikkim" under NRCP (CONS 7428 C)	Ministry of Jal Shakti	2.36	CI	Completed
11.	Scientific Study for Investigation of Mine-wise water Availability and Potential for Community Use in ECL (CONS 7299 C)	M/s ECL	112.10	CI	Completed
12.	Vetting of Intake Arrangement Drawings at Rukka Dam, Ranchi, Jharkhand (CONS 7290 C)	M/s Mata Rani Construction	3.54	CI	Ongoing
13.	Scientific study for Environmental Impact Assessment & Risk Analysis for Utilization of Red Mud for NHAI Road Project in Jharkhand (CONS 7320 C)	M/s Hindalco	53.10	CI	Ongoing
14.	Vetting of Structural Drawing based on Design Work of Major Upgradation and Redevelopment of Ranchi Railway Station of South Eastern Railway. (CONS/7226/2024-25)	R K S Construction Pvt Ltd.	11.80	Co-CI	Completed
15.	Assessment of EC compliance conditions at Sonapur Bazari OpenCast Project of Eastern Coalfields Limited (CONS 7369 C)	M/s ECL	9.44	CI	Completed
16.	Study of Ground water and Surface water around Red Mud Pond and nearby area of Muri Unit (CONS/7243/2024-25)	M/s Hindalco	9.44	CI	Completed
17.	Characterization and Environmental Significance of Waste Tailings Generated from BHQ Beneficiation Plant and its Feasibility study of Utilization (in the form of wet and	Lloyds Metals & Energy Ltd	17.7	CI	Completed

	coarse tailings) for different related Industrial Use. (CONS 7313 C)				
18.	Engagement of technical consultant for Study and Provide an Action Plan for 100% Ash Utilization (CONS/7202/2023-24)	Lanco Anpara	11.80	CI	Completed
19.	Environmental Sustainability Management Study of the Surjagarh Iron Ore Mining project (CONS/7176/2023-24)	Lloyds Metals & Energy Ltd	23.60	CI	Completed
20.	Surface And Groundwater Sampling And Analysis Of Muri Unit (CONS/7152/2023-24)	Hindalco, Muri	3.54	CI	Completed
21.	Environmental Studies for Pond Ash Filling in Coal Mines Voids (CONS/7069/2022-23)	NTPC	47.20	CI	Completed
22.	Cumulative Impact Assessment Study, Carrying Capacity Study and Ecosystem Services Study as per condition of terms of References (ToR) for Expansion of Nigahi Opencast Mining Project from 21 Mtpa to 25 Mtpa with increase in leasehold area from 3018.40 ha to 3582.732 ha. (CONS/6096/2021-2022)	NCL	130.626	Co-CI	Completed
23.	Validation of Data quantitative for Coal Jal App with respect to ECL (TEST/4012/2018-2019)	ECL	21.43	Co-CI	Completed
24.	Validation of Data Quantitative for Coal Jal App with respect to ECL (TEST/4010/2018-2019)	ECL	21.00	Co-CI	Completed
25.	Validation of Data Quantitative for Coal Jal App with respect to BCCL (TEST/4009/2018-2019)	BCCL	12.803	CI	Completed
26.	Validation of Data Quantitative for Coal Jal App with respect to CCL (TEST/4008/2018-2019)	CCL	12.272	CI	Completed
27.	Assessment of heavy metal pollution index (HPI) in water, sediments and aquatic samples in and around Manikpur open cast mine fly ash fill site. (CONS/4096/2018-2019)	NTPC, Kirandul	28.32	CI	Completed
28.	Monitoring of Air quality and analysis of water samples at different points of washery at Chasnalla (CONS/3871/2018-2019)	SAIL	6.73	Co-CI	Completed

29.	Assessment of ground and surface water at Muri. (CONS/3870/18-19)	Hindalco, Muri	6.75	CI	Completed
30.	Assessment of Surface Water at Different Locations of Dhanbad (CONS/3829/2018-2019)	Tata Consulting Ltd.	2.47	CI	Completed
31.	Water quality Analysis of Surface and Mine Water at Block - B, NCL Singrauli. (CONS/3732/2017-2018)	NCL	1.24	CI	Completed
32.	Analysis of Mercury Content in 22 Coal Samples. (CONS/3709/2017-2018)	NCL	1.30	CI	Completed
33.	Assessment of Ground Water and Surface Water at Muri. (CONS/3519/2017-2018)	Hindalco	2.99	CI	Completed
34.	Monitoring of Air Quality analysis and Water Samples at different point of Washery Chasnalla. (CONS/3507/2017-2018)	SAIL	1.72	Co-CI	Completed
35.	Techno Economic Study for Transportation for fly ash from CSPGCL Korba to Manikpur Open Cast Mines. (CONS/3469/16-17)	CSEB	28.32	CI	Completed
36.	Assessment of ground water and surface water at Muri (CONS/3196/2016-2017)	Hindalco	2.96	CI	Completed
37.	Water Quality and Treatment Plant Operation (CONS/3404/2016-2017)	NCL	2.20	CI	Completed
38.	Feasibility Study of STP at West Bokaro Division (WBD) (CONS/3300/2016-2017)	Tata Steel	16.68	Member	Completed
39.	Environmental Audit of Matrix Fertilizer by Third Party (CONS/3408/2016-2017)	Matix Fertilisers	2.30	CI	Completed
40.	Geo Enviro study of abandoned mines for flyash backfilling (CONS/2927/15-16)	MPL	22.80	CI	Completed
41.	Testing of Water Sample near Rajrappa Area (CONS/3021/15-16)	HIL	1.46	CI	Completed
42.	Technical consultancy for Wastewater Management (CONS/3049/15-16)	NMDC,	15.10	Co-CI	Completed
43.	Technical Consultancy for Wastewater Management and Control of Water Pollution from plant and Mines of Kirandul Complex (CONS/2794/14-15)	NMDC	14.88	Co-CI	Completed
44.	Impact of Mining Activities on Hydrology and Hydrogeology of	TSL	8.98	Co-CI	Completed

	Core Zone Covering all 5 underground Mines of Tata Steel. (CONS/2674/14-15)				
45.	Monitoring of Environmental Parameters in Respect of (i) Stack Emission test (ii) Effluent discharge test (iii) Ambient air quality test (iv) Noise level Measurement for unit 1,2,3,7 & 8 DVC CTPS Chandrapura (CONS/2675/14-15)	DVC	5.1	Co-CI	Completed
46.	EIA Study on the impact of impact of leaching due to storage of fly ash on the surface and mine voids of the dumping (CONS/2296/13-14)	Hindalco Ltd	15.16	CI	Completed

Details of Associated RA/PDF/IPDF

S. No.	Name	Position	Duration
1.	Dr Sonalika Sonal	RA-I	27.08.2021 to 30.11.2023
2.	Dr Sourabh Acharya	RA-I	08-01-2024 to 21.06.2024
3.	Dr Vijay Laxmi Mohanta	RA-I	27.06.2024 to 16.04.2026
4.	Dr Vijay Laxmi Mohanta	RA-III	17.04.2026 to Till now

DETAILS OF PH. D GUIDANCE

Awarded: As Sole Guide

S. No	Name of Student	Title of the Dissertation	Award Year
1.	Ms. Tanwi Priya	Spectral Indices modelling approach for the treatment of aromatic fractions of Natural Organic Matter to control Trihalomethanes precursors	2019
2.	Mr. Hariraj Singh	Electrochemical Oxidation of Phenol, Cyanide and Aniline in Coke Oven Wastewater: Parametric Optimization, Reaction Mechanism and By-product Toxicity Evaluation	2020
3.	Ms. Arkulla Deepa	Sorption and Biological degradation of Pre-treated tannery wastewater in Biochar based laboratory filters with active biofilm	2021
4.	Ms. Sonalika	Feasibility of zirconium oxychloride for the dye wastewater remediation based on coagulation and adsorption process	2021
5.	Mr Prem Prakash	Optimization of Electrokinetic Process for Removal of Organic Compounds and Metals from Soil/Sludge with Modified Electrolytes	2022
6.	Ms Astha Singh	Kinetics of Hybrid process of Electrochemical & Photo catalytic System for Removal Selected Pharmaceutical Waste	2022
7.	Ms Vijay Laxmi	Establishment of water profile near steel industry and identification of suitable disinfection cum remediation	2022

		process for dominating pollutants in groundwater	
8.	Ms Aakansha Singh	Synthesis of Zirconia-Based Photocatalysts via Green Route: Structural and Optical Characterization with Application in Methylene Blue Degradation	2025
9.	Mr Sumit Dhaiya	Understanding behaviour and performance of flow electrode capacitive deionization (FCDI) technology during selective removal of Chromium and Co-existing ions from brackish water	2025

Awarded: Co-Guide

S. No	Name of Student	Title of the Dissertation	Award Year
1.	Ms Aliya Naz	Risk Assessment of Chromium in the Chromite Mine Water and Its Bioremediation	2017
2.	Mr Sourav Acharya	Utilization of Heavy Metal Saturated Spent Adsorbents for Development of Asymmetric Hybrid Supercapacitor	2023

Ongoing: As Sole Guide

S. No	Name of Student	Fellowship/Type of Registration
1.	Ms. Sikha Jha	Institute Fellowship
2.	Mr. Aditya Tripathi	Institute Fellowship
3.	Mr. Manoj Kumar Barakam	Institute Fellowship
4.	Mr Kumar Gaurav	Institute Fellowship
5.	Ms. Latika Verma	Institute Fellowship
6.	Nabasmitta Barman	Externally funded
7.	Dorothy Borthakur	Externally funded
8.	Mr. Vikas Kumar	Part Time
9.	Mr. A P Singh	Part Time
10.	Ms. Aparna Srivastava	Part Time
11.	Mr. Sougata Mahato	Part Time
12.	Ms. Sarika Sinha	Part Time
13.	Mr. Suman Saurav	Part Time
14.	Ms. Khushboo Kumari	Part Time

DETAILS OF M. TECH GUIDANCE

Awarded: As Sole Guide

S. No.	Name of students	Title of Thesis	Award Year
1.	Pravesh Kumar Yadav	Evaluation and performance of electromagnetic system for removal efficiency of toxic contaminants from municipal sewage sludge	2013
2.	Tanmoy Hazara	Assessment of water and soil quality in opencast coal mine area, Rajrappa	2014

3.	Rakesh Kumar	Air and noise quality assessment of flyash dumping area of Rajrappa	2014
4.	Hariraj Singh	Investigation of the Electro-coagulation Treatment process for the Removal of Metals from Mine Water	2015
5.	Nitesh Kumar	In-situ influence of coal ash dump on neighboring surface and ground water	2015
6.	Vinay Anchal	Feasibility analysis of sewage treatment plant at TATA steel, West Bokaro, Jharkhand	2016
7.	Vijay Laxmi	Assessment of Removal Efficiency of Disinfection By-Products (DBPs) precursor by Enhanced Coagulation	2016
8.	Shreya Sharma	Assessment of water quality in and out abandoned mines of ECL Mugma area Using Water Quality Index(WQI)	2016
9.	Bramha Gupta	Assessment of influence of NOM and other operational condition during chlorination and control strategies of THMs in drinking water	2017
10.	Prasun Kumar Chakraborty	Assessment of Soil fertility by direct impact of electro kinetic process on chromium contaminated soil	2017
11.	Provashish Ghosh	Characterization of biochar derived from Neem seed shell and Its Performance, kinetics, and equilibrium for the adsorption of RBBR from aqueous solution	2018
12.	Rohit Kumar	Triclosan adsorption by Graphene Oxide: Isotherms, Kinetics and Thermodynamics analyses	2018
13.	Tannu Yadav	Optimization of Air Stripping process for the removal of ammonia in coke oven wastewater.	2018
14.	Shivam Snehi	Understanding the NOM removal mechanism from Mine and surface water through electrocoagulation method	2019
15.	Subham Singh	Application of Fuzzy logic for the assessment risk associated with groundwater	2019
16.	Devayani Ugale	Ionic interaction of mine and surface water during coagulation for the removal of reactive part of NOM	2019
17.	Mamta Murmu	Fuzzy Analytical based approach for evaluation of Cancer and Non-cancer risk assessment due to Arsenic contaminated groundwater	2020
18.	Manoj Mantri	Understanding the sorption of Chromium (VI) ions using flow electrode capacitive deionization technique over conventional adsorption	2020
19.	Prateek Pathak	Remediation of e-waste contaminated soil through electrokinetic process using different electrolyte	2020
20.	Sumit Kumar	Removal of natural organic matter (NOM) in drinking water treatment by coagulation	2021
21.	Amit Kumar Arya	Synthesis of Zirconium Based Adsorbent for the Removal of Nitrate from Groundwater	2022
22.	Saikat Das	Mineralization Enhancement of Dye Wastewater by Integrating Different Advanced Oxidation Processes	2023
23.	Aaradhana Kushwaha	Heavy Metal Adsorption and Subsequent Utilization of Spent Adsorbent for Supercapacitor Development	2024
24.	Triloki Nath	Engineering and Environmental Aspects of Fly Ash Disposal	2024

		in Mine Voids	
25.	Hemant Kumar	Assessing the Feasibility of Mine Water Utilization: A Quantitative Analysis	2025
26.	Latika Verma	Sustainable Utilization of Mine Water: Quality and Quantitative Assessment	2025

Awarded: Co-Guide

S. No.	Name of students	Title of Thesis	Award Year
1.	Ashish Kumar	The study on Geochemistry of Govind Ballabh Pant Sagar, Singrauli, India	2013

DETAILS OF M. SC GUIDANCE

Awarded: As Sole Guide

S. No.	Name of students	Title of Thesis	Award Year
1.	Durgesh Kumar	Assessment of Ambient Air Pollutants At Different Sites Of Allahabad City	2007
2.	Soumyajit Datta	Survey and Analysis of Solid Waste Management in Allahabad City	2007
3.	Siddharth Mishra	Impact of Sewage Pollution on Physico Chemical and Microbial Characteristics of Some Water Bodies in Allahabad District	2007
4.	Pawan Kumar Mishra	Adsorption of fluoride from aqueous solution using fly ash and sawdust	2008
5.	Anjali Singh	Monitoring of drinking water quality index at Naini Allahabad	2008
6.	Purvee Gupta	Assessment of toxic metal in tree bark and soil at road side	2009
7.	Jyoti Kumari	Monitoring of Ambient Air Pollutants At NTPC Tanda	2009
8.	Rashi Gupta	Absorption of toxic elements in radish crop & Agricultural soil treated with municipal sewage sludge	2009

Awarded: Co-Guide

S. No.	Name of students	Title of Thesis	Award Year
1.	Surabhi Singh	Study on removal of Zn from aqueous solution using tea waste as an adsorbent	2010
2.	Ibadaiahun Murthong	Study of Yamuna river water quality in Allahabad city	2010

MAJOR CONFERENCE/ REFRESHER/SHORT TERM COURSES ATTENDED

S. No.	Details
1.	Presented the research paper on the “Enhancing the Efficiency of Flexible All-Solid-

	State Supercapacitors via Cadmium Decontamination of Water” in International Conference on Environment and Life Science (ICELS-25) at Dubai, UAE, during 30th - 31st January 2025.
2.	Presented the research paper on the “Optimization of the operational conditions for the treatment of reactive dyes through a statistical tool: Response Surface Methodology” in 8th International Conference on Environment Science and Biotechnology (ICESB 2018) at Chulaongkorn University, Bangkok, Thailand during 19 to 21 December 2018.
3.	Presented the research paper on the “Performance Evaluation of the Electro-Coagulation Treatment Process for the Removal of Total Suspended Solids and Metals from Water” in World Congress on Sustainable Technologies (WCST-2015) at London during 14 to 16 December 2016.
4.	Presented the review paper on the in 2nd Annual International Conference on “Sustainable Energy and Environmental Sciences” at Singapore during 24 to 28 February 2013.
5.	Three days training on “Current Requirements in Environmental Impact Assessment (EIA) – Process & Procedures (as per MOEF Guidelines)” organized by ESCI, Hyderabad during January 23-25, 2012.
6.	One week short term course on “Transportation system planning and GIS Application in Engineering” Sponsored by AICTE, (Govt. of India) held on December 19 to 23 Dec, 2009 at NIT, Hamirpur,(H.P).

ORGANIZATION OF CONFERENCE/SHORT TERM COURSE (EDP)

S.No.	Particulates	Date	Role	Remark
1.	Organized two day national conference on “Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012”	22-23 March, 2012	Treasure	Conference
2.	Organized two day national workshop on “Challenges and Opportunities for Management of Water Supplies in Rural Areas, COMWRA 2015”	23-24 January, 2015	Treasure	Workshop
3.	Organized 5-Days Training Program for Executives of different industry on “Water Quality and Treatment Plant Operation”. (CONS/3404/16-17)	19– 23 Dec, 2016	CI	EDP
4.	Organized 3-Days Training Program for Executives of different industry/institute on “Fibre Optic sensors in environmental monitoring (FOSEM)” (EDP/3960/2018-2019)	22-24 June, 2017	Co-CI	EDP
5.	Organized 3-Days Training Program for Executives of different industry on “Water Quality and Treatment” (CONS/3080/15-16)	28-30 January, 2016	Co-CI	EDP
6.	Organized 3-Days Training Program for	21-23	Expert	EDP

	Executives of thermal power plants on “Water Quality and Management for Thermal Power Plants” (EDP/3305/2016-2017)	Sept, 2016	Member	
7.	Organized 3-Days Training Program for Executives of different industry on “Water Quality and Management” (EDP/3220/2016-2017)	25 - 27 May 2016	Co-CI	EDP
8.	Monitoring of Ecological Restoration Success and Carbon Sequestration using Remote Sensing and GIS (EDP/3263/2016-2017)	27-29 July, 2016	Expert Member	EDP
9.	Occupational Health, Safety & Environment (EDP/3266/2016-2017)	07-09 January, 2016	Expert Member	EDP
10.	Occupational Health, Safety & Environment (EDP/3540/2017-2018)	17-19 May, 2017	Expert Member	EDP
11.	Sustainable Coal Mining Practices' for the students of University of South Florida-St. Petersburg, USA (EDP/3622/2017-2018)	03-11 August, 2017	Expert Member	EDP
12.	Online Training Programme on Low-cost treatment method for Fluoride and Arsenic contaminated groundwater (DDWS(NJJM)/2021-2022/807/ESE)	21-22 September, 2021	CI	EDP
13.	Online Training Programme on Low-cost treatment method for Fluoride and Arsenic contaminated groundwater (DDWS(NJJM)/2021-2022/807/ESE)	23-24 September, 2021	CI	EDP

PUBLICATION DETAILS

A) List of Publications (SCI/SCIE)

Publication Index					
Q1	Q2	Q3	Q4	Total Publication (SCI/SCIE)	Average I.F.
32	18	07	02	59	5.44

S. No	Publication Details	I.F.	Ranking
1.	Aditya Tripathi, Sarita Yadav, Madhulika Gupta, Brijesh Kumar Mishra (2026). Contending Ions and Preferential Removal Pathways: Deciphering Electrochemical Mechanisms in Flow Electrodes of FCDI for Cr(VI), Pb(II), and Cu(II) Removal. Electrochemical Acta (Accepted).	5.8	Q1
2.	Sonalika Sonal, Sourav Acharya, Vijay Laxmi Mohanta, Aditya Tripathi, Ganesh Chandra Nayak and Brijesh Kumar Mishra* (2026). Cr(VI)-Captured Polyaniline-Coated Carbon Derived from	3.6	Q2

	Cow Dung for Sustainable Heavy Metal Remediation and High-Performance Supercapacitor Applications. Biochemical Engineering Journal (Accepted)		
3.	Singh, A. P., Mohanta, V. L., Sinha, S., Sinha, P., & Mishra, B. K. (2026). Source apportionment and health risk assessment of heavy metal contamination in spring-groundwater continuum using multivariate analysis: evidence from the Bailadila iron ore mining region. <i>Environmental Geochemistry and Health</i> , 48(6), 253.	4.3	Q1
4.	Sourav Acharya, Shrabani De, Duy Thanh Tran, Nam Hoon Kim, Brijesh K. Mishra , G.C. Nayak, Joong Hee Lee (2025). Harnessing porous carbon/iron oxide nanocomposites for arsenic contaminated water remediation and asymmetric supercapacitor. <i>Materials Today Chemistry</i> , 47, 102823.	7.4	Q1
5.	Shikha Jha, Aditya Tripathi, Brijesh Kumar Mishra* (2026). Integrated pretreatment–membrane systems for water and wastewater treatment: A critical review on fouling control and combined process efficiency. <i>Chemical Engineering and Processing - Process Intensification</i> (Accepted)	4.2	Q2
6.	Jha, S., Sonal, S., & Mishra, B. K. * (2025). Advanced Pre-Treatment Strategies to Control Membrane Fouling in Tannery Wastewater Treatment. <i>Applied Water Science</i> (Accepted)	5.7	Q1
7.	Dahiya, S., Singh, A., Tripathi, A., & Mishra, B. K.* (2025). Understanding behaviour and performance of flow electrode capacitive deionization (FCDI) during simultaneous selective removal of Chromium (Cr (VI)) and Fluoride from brackish wastewater. <i>Journal of Water Process Engineering</i> , 69, 106864.	6.6	Q1
8.	Sonal, S., Arya, A. K., Srivastava, A., Gupta, B., & Mishra, B. K. * (2025). Understanding the role of oxidants for enhanced remediation of groundwater nitrate: An insight into surface modification. <i>Materials Science and Engineering: B, Advanced Functional Solid-State Materials</i> , 313, 117872.	5.7	Q2
9.	Tripathi, A., Dahiya, S., & Mishra, B. K. * (2024). Next-Generation heavy metal water Treatment: A Primer on modified Capacitive deionization. <i>Chemical Engineering Journal</i> , 158844.	12.5	Q1
10.	Jha, S., & Mishra, B. K. * (2024). An overview of deploying different treatment processes with membrane bioreactor for enhanced treatment of wastewaters: synergistic performances and reduced fouling of membrane. <i>Environmental Science and Pollution Research</i> , 1-32.	5.8	Q1
11.	Singh, A., Mohanta, V. L., Dahiya, S., & Mishra, B. K. * (2024). Biogenic synthesis of Azadirachta indica-mediated zirconium oxide nanoparticles: photocatalytic degradation of methylene blue and antimicrobial activity. <i>Biomass Conversion and Biorefinery</i> , 1-15.	4.3	Q2
12.	Sourav Acharya, Shrabani De, Ayon Ganguly, Brijesh K. Mishra* and Ganesh Chandra Nayak* (2024). Utilization of lead-based saturated adsorbents for the fabrication of battery-like hybrid asymmetric supercapacitors. <i>Environmental Science Nano</i> , 11(4),	5.6	Q1

	1654-1670.		
13.	Astha Singh* and Brijesh K Mishra (2023) . Microbeads in Personal Care Products: An overlooked environmental concern. <i>Journal of Cleaner Production</i> , 427, 139082.	10.7	Q1
14.	Sourav Acharya, Shrabani De, Brijesh K Mishra* and G C Nayak* (2023). Enhancing the efficiency of flexible all-solid-state supercapacitor via cadmium decontamination of water, <i>Journal of Energy Storage</i> , 73, 108938.	10.7	Q1
15.	Astha Singh and Brijesh Kumar Mishra* (2023). Removal of chlorhexidine digluconate from aqueous solution by heterogenous photocatalysis using Sunlight-Driven Ni-Doped TiO ₂ material. <i>Environmental Engineering Research</i> . 28(1).	3.6	Q3
16.	Sonalika Sonal, Sourav Acharya, Brijesh K Mishra* (2022). Mesoporous carbon structure impregnated with 2D engineered zirconium: A sustainable adsorbent for the removal of dyes from the aqueous solution, <i>Journal of Environmental Management</i> , 314, 115009.	9.2	Q1
17.	Arukula Deepa, Sonalika, and B. K. Mishra* (2022). Application of co-immobilized microbial biochar beads in hybrid biofilter towards effective treatment of chrome tanning wastewater. <i>Journal of Water Process Engineering</i> , 48, 102821.	6.6	Q1
18.	Prem Prakash, Sonalika Sonal and B. K. Mishra* (2022). Transportation mechanism of chromium from tannery sludge through an electrokinetic process: Role of Electrolytes and operational conditions. <i>International Journal of Environmental Science and Technology</i> , 1-16.	3.4	Q3
19.	Astha Singh and Brijesh Kumar Mishra* (2022). Solar light-driven photocatalysis using BaFe ₂ O ₄ /rGO for Chlorhexidine digluconate contaminated water: comparison with artificial UV and visible light-mediated photocatalysis. <i>Environmental Science and Pollution Research</i> , 29 , 30739–30753.	5.8	Q1
20.	Sonal, S., & Mishra, B. K.* (2021). Synthesis and performance of different Zirconium-based adsorbents for the removal of various water contaminants. <i>Chemical Engineering Journal</i> , 424, 130509.	12.5	Q1
21.	Singh, A., Dahiya, S. & Mishra, B. K. * (2021). Microbial fuel cell coupled hybrid systems for the treatment of dye wastewater: A review on synergistic mechanism and performance. <i>Journal of Environmental Chemical Engineering</i> , 9(6), 106765.	7.5	Q1
22.	Dahiya, S., Singh, A., & Mishra, B. K.* (2021). Capacitive deionized hybrid systems for wastewater treatment and desalination: A review on synergistic effects, mechanisms and challenges. <i>Chemical Engineering Journal</i> , 417, 128129.	12.5	Q1
23.	Hariraj Singh, Sonalika Sonal and B. K. Mishra* (2021). Understanding the toxicity effect and mineralization efficiency of in-situ electrogenerated chlorine dioxide for the treatment of priority pollutants of coking wastewater. <i>Ecotoxicology and Environmental Safety</i> , <i>211</i> , 111907.	6.6	Q1
24.	Arukula Deepa, Astha Singh, Aakansha Singh and B. K. Mishra*	5.8	Q1

	(2021). An experimental approach for the utilization of tannery sludge derived Bacillus strain for biosorptive removal of Cr(VI) contaminated wastewater. <i>Environmental Science and Pollution Research</i> , 28(8), 9864-9876.		
25.	Arukula Deepa, Prem Prakash and B. K. Mishra* (2021). Performance of biochar-based filtration bed for the removal of Cr(VI) from pre-treated synthetic tannery wastewater. <i>Environmental Technology</i> , 42:2, 257-269,	2.2	Q3
26.	Sonalika Sonal, Devyani Ugale, and Brijesh K Mishra* (2021). Combining Surface Water with Mine Water to Improve the Removal of Natural Organic Matter by Enhanced Coagulation. <i>Mine Water and Environment</i> . 40(3), 701-712.	2.2	Q3
27.	Gupta, B., Priya, T., Kumar Mishra, B., Gupta, B., Priya, T., & Mishra, B. K. * (2021). Augmentation of the coagulation activity of alum using a porous bio-flocculant for the remediation of trihalomethanes-generating hydrophobic natural organic matter. <i>Environmental Engineering Research</i> , 26(3), 209-217.	3.6	Q3
28.	Hariraj Singh, Niwas Kumar and Brijesh Kumar Mishra* (2021). Understanding the by-product formation potential during phenol oxidation from in-situ electro-generated radicals by microalgae harvesting. <i>Environment Technology</i> , 42(22), 3533-3545.	2.2	Q3
29.	Sourav Acharya, Sumanta Sahoo, Sonalika Sonal, Joong Hee Lee, Brijesh K Mishra* and G C Nayak* (2020). Adsorbed Cr(VI) based Activated Carbon/Polyaniline Nanocomposite: A superior electrode material for Asymmetric Supercapacitor Device. <i>Composites Part B: Engineering</i> , 193:107913.	14	Q1
30.	S. Dahiya and B. K. Mishra* (2020). Enhancing understandability and performance of flow electrode capacitive deionisation by optimizing configurational and operational parameters: A review on recent progress. <i>Separation and Purification Technology</i> , 240, 116660.	9.1	Q1
31.	Aliya Naz, Abhiroop Chowdhury*, Rachna Chandra and Brijesh Kumar Mishra (2020). Potential human health hazard due to bioavailable heavy metal exposure via consumption of plants with ethnobotanical usage at the largest chromite mine of India. <i>Environmental geochemistry and health</i> . 42, 4213-4231.	4.3	Q1
32.	Vijay Laxmi Mohanta and B. K. Mishra* (2020). Integration of cancer and non-cancer human health risk assessment for Aniline enriched groundwater: a fuzzy inference system-based approach. <i>Environmental geochemistry and health</i> , 42, 3623-3639.	4.3	Q1
33.	Sonalika Sonal, Prem Prakash, Brijesh K Mishra* and G C Nayak (2020). Synthesis, characterization and sorption studies of a zirconium (IV) impregnated highly functionalized mesoporous activated carbons. <i>RSC Advances</i> , 10:13783.	6.1	Q2
34.	Vijay Laxmi Mohanta, Subham Singh, B. K. Mishra* (2020). Human health risk assessment of fluoride-rich groundwater using fuzzy-analytical process over the conventional technique. <i>Groundwater for Sustainable Development</i> , 10: 100291.	5.8	Q1

35.	Shivam Snehi, Hariraj Singh, Tanwi Priya and Brijesh Kumar Mishra* (2019). Understanding the natural organic matter removal mechanism from mine and surface water through the electrocoagulation method. <i>Journal of Water Supply: AQUA</i> , 68 (7): 523–534.	2.6	Q2
36.	Astha Singh, Sonalika Sonal, Rohit Kumar and Brijesh Kumar Mishra* (2019). Adsorption of Chlorhexidine Digluconate on acid modified fly ash: Kinetics, isotherms and influencing factors. <i>Environmental Engineering Research</i> 25(2): 205-211.	3.0	Q2
37.	Hariraj Singh, Brijesh Kumar Mishra* (2018). Degradation of cyanide, aniline and phenol in pre-treated coke oven wastewater by peroxide assisted electro-oxidation process. <i>Water Science and Technology</i> , 78(10), 2214-2227.	2.5	Q2
38.	Vijay Laxmi Mohanta, Aliya Naz and B. K. Mishra* (2018). Distribution of heavy metals in the water, sediments, and fishes from Damodar river basin at a steel city, India: A probabilistic risk assessment. <i>Human and Ecological Risk Assessment: An International Journal</i> 26(2), 406-429.	3.0	Q2
39.	Arukula Deepa, Prem Prakash, Tanwi Priya, Hariraj Singh, Vijay Laxmi Mohanta and B. K. Mishra* (2018). Treatment of tannery wastewater using aluminium formate: influence of the formate over sulphate based coagulant. <i>Global NEST</i> , 20(3):20-26.	1.0	Q4
40.	Sonalika Sonal, Astha Singh and B.K. Mishra* (2018). Decolorization of reactive dye Remazol Brilliant Blue R by Zirconium oxychloride as a novel coagulant: Optimization through Response Surface Methodology. <i>Water Science and Technology</i> , 78(2), 379-389.	2.5	Q2
41.	Tanwi Priya, Prem Prakash, B.K. Mishra* (2018). Understanding the coagulant activity of zirconium oxychloride to control THMs formation using response surface methodology. <i>Ecotoxicology and Environmental Safety</i> 159:28–37.	6.2	Q1
42.	Prem Prakash, Prasun Kumar Chakraborty, Tanwi Priya, Brijesh Kumar Mishra* (2018). Performance evaluation of saponin over other organic acid and tap water for removal of chromium in tannery sludge by electrokinetic enhancement. <i>Separation Science and Technology</i> , 1-10.	2.3	Q3
43.	Aliya Naz, Abhiroop Chowdhury*, Brijesh Kumar Mishra and K. Karthikeyan (2018). Distribution of heavy metals and associated human health risk in mine, agricultural and roadside soils at the largest chromite mine of India. <i>Environmental geochemistry and health</i> , 1-21.	4.0	Q1
44.	Hariraj Singh, Sonalika Sonal B K Mishra* (2018). Hexavalent Chromium removal by Monopolar electrodes based electrocoagulation system: Optimization through Box-Behnken Design. <i>Journal of Water Supply: AQUA</i> , 67(2):147-161.	4.3	Q1
45.	Tanwi Priya, Abhrajyoti Tarafdar, Bramha Gupta and B K Mishra* (2018). Effect of bioflocclulants on the coagulation activity of alum for removal of trihalomethane precursors from low	5.9	Q1

	turbid water. Journal of Environmental Science, 70:1-10.		
46.	Shruti Chawda, Abhrajyoti Tarafdar, Alok Sinha*, and Brijesh Kumar Mishra (2017). Profiling and health risk assessment of PAHs content in tandoori and tawa bread from India. Polycyclic Aromatic Compounds, 1-12.	2.6	Q2
47.	Shahjad Ali, Minashree Kumari, S K Gupta, Alok Sinha and B K Mishra* (2017). Identification of fluoride endemic areas and associated health risk – A case study of Agra, Uttar Pradesh, India. Human and Ecological Risk Assessment, 23 (3): 590-604.	3.9	Q2
48.	Tanwi Priya, Vijay Laxmi and B K Mishra* (2017). Performance evaluation of zirconium oxychloride for reduction of hydrophobic fractions of Natural Organic Matter. Separation and Purification Technology, 174 (1):104-108.	9.1	Q1
49.	Tanwi Priya and B K Mishra* (2017). Enzyme mediated chloroform biotransformation and Cancer Risk Analysis of Trihalomethanes Exposure in South -East Asia: A Review. Exposure and Health, 9(1):61-75.	3.5	Q1
50.	Hariraj Singh and B K Mishra* (2017). Performance evaluation and kinetic modeling of the electrocoagulation treatment process for the removal of total suspended solids and metals from synthetic water. Environmental Engineering Research. 22(2): 141-148.	3.6	Q2
51.	B K Mishra* , Tanwi Priya, S K Gupta and Alok Sinha (2016). Modeling and characterization of natural organic matter and its relationship with the THMs formation. Global NEST, 18(4): 803-816.	1.7	Q4
52.	Aliya Naz, Abhiroop Chowdhury, Brijesh Kumar Mishra* and Sunil Kumar Gupta (2016). Metal Pollution in Water Environment and the Associated Human Health Risk from Drinking Water: A Case Study of Sukinda Chromite mine, India. Human and Ecological Risk Assessment, 22 (7): 1433-1455.	3.0	Q2
53.	Aliya Naz, B K Mishra* and S K Gupta (2016). Human Health Risk Assessment of Chromium in Drinking Water: A Case Study of Sukinda Chromite Mine, Odisha, India. Exposure and Health, 8(2): 253-264.	3.5	Q1
54.	Tomar Swati, Gupta S K* and Mishra B K (2015). Performance evaluation of the anammox hybrid reactor seeded with mixed inoculum sludge. Environmental Technology, 37(9): 1065-1076.	2.2	Q3
55.	Tomar Swati, Gupta S K* and Mishra B K (2015). A novel strategy for simultaneous removal of nitrogen and organic matter using anaerobic granular sludge in anammox hybrid reactor. Bioresource Technology, 197: 171-177.	8.2	Q1
56.	Lama Y, Sinha Alok*, Singh G, Sahu S A & Mishra B K (2016). Modeling the impacts of corrosion product formation on simultaneous sorption and reductive dehalogenation of organochlorine pesticide aldrin by high carbon iron filings (HCIF). Desalination and Water Treatment. 57 (16):7155-7165.	3.4	Q3
57.	Minashree Kumari, S.K. Gupta* and B.K. Mishra (2015). Multi-exposure cancer and non-cancer risk assessment of	6.6	Q1

	Trihalomethanes in drinking water supplies – A case study of Eastern region of India. <i>Ecotoxicology and Environmental Safety</i> , 113:433–438.		
58.	Sarkar AK, Ghorai S, Patra AS, Mishra BK , Mandre NR and Pal S* (2015). Modified amylopectin based flocculant for the treatment of synthetic effluent and industrial wastewaters. <i>International Journal of Biological Macromolecules</i> , 72: 356–363.	8.7	Q1
59.	Mishra BK* , Gupta SK and Sinha A (2014). Human health risk analysis from disinfection by-products (DBPs) in drinking and bathing water of some Indian cities. <i>Iranian Journal of Environmental Health Science & Engineering</i> ; 12:73.	3.9	Q2

B) List of Publication (Scopus)

S. No	Publication Details
60.	Tripathi, A., Jha, S., Barman, N., & Mishra, B. K.* (2026). A Critical Sustainability Review of Green Carbon-Based Supercapacitors. <i>Future Batteries</i> , 100194.
61.	Sonalika Sonal and B.K. Mishra* (2019). Optimization of the Operational Conditions for the Treatment of Reactive Dyes through a Statistical Tool: Response Surface Methodology. <i>Int. Journal of Environmental Science and Development</i> , 10(6), 193-196.
62.	B K Mishra* , Manisha, R Gupta and Alok Sinha (2015). Mobility of Toxic Elements in Crop and Agricultural Soil Treated with Municipal Sewage Sludge. <i>Asian Journal of Water, Environment and Pollution</i> , 12 (2): 13–19.
63.	R Srivastava, GK Yadav, A Sinha* and B K Mishra (2015). Comparative Study for Reduction of Hexavalent Chromium by High Carbon Iron Filings (HCIF) and Electrolytic Iron: Mass Transfer Limitations. <i>Asian Journal of Chemistry</i> , 27 (4):1398-1402.

C) List of Publication (Book Chapter)

S. No	Publication Details
64.	Mohanta, V. L., Tripathi, A., & Mishra, B. K. (2026). Fate and Distribution of Microplastics. <i>Microplastic Pollution in Aquatic and Terrestrial Ecosystems: Ecotoxicological Impacts and Mitigation Strategies</i> , 61.
65.	Singh, A., & Mishra, B. K. (2024). Mycogenic synthesis of nanoparticles and their application in dye degradation. In <i>Role of Green Chemistry in Ecosystem Restoration to Achieve Environmental Sustainability</i> (pp. 145-155). Elsevier.
66.	Singh, A., & Mishra, B. K. (2022). Treatment aspect of an emerging pollutant from Pharmaceutical industries using advanced oxidation process: past, current, and future trends. In <i>Development in Wastewater Treatment Research and Processes</i> (pp. 23-44). Elsevier.
67.	Singh, H., & Mishra, B. K. (2022). Recent applications, reaction mechanism, and future perspective of hybrid ozonation process for water and wastewater treatment. In <i>Development in Wastewater Treatment Research and Processes</i> (pp. 459-484). Elsevier.
68.	Naz A.*, Chowdhury A., Mishra B.K. (2021) Source, Pollution and Remediation of Carcinogenic Hexavalent Chromium from Industrial, Mining Effluents. In: Inamuddin, Ahamed M.I., Lichtfouse E., Altalhi T. (eds) <i>Remediation of Heavy Metals. Environmental Chemistry for a Sustainable World</i> , vol 70. Springer, Cham.
69.	Sonalika Sonal and B. K. Mishra* (2021). Photocatalytic Degradation of Dyes: Current Trends and Future Perspectives. Elsevier, Butterworth-Heinemann. United Kingdom.
70.	Vijay Laxmi Mohanta and B. K. Mishra* (2021). Occurrence and fate of Phenolic Compounds in groundwater and its associated risk. <i>Legacy, Pathogenic and Emerging</i>

	Contaminants in the Environment. CRC Press.
71.	Sonalika Sonal and B. K. Mishra* (2021). Role of Coagulation/Flocculation Technology for the Treatment of Dye Wastewater: Trend and Future Aspects. Water Pollution and Management Practices. Springer Nature Singapore Pte Ltd.
72.	Chakraborty, P. K., Prakash, P., & Mishra, B. K. (2021). Assessment of Soil Fertility and Microbial Activity by Direct Impact of an Electrokinetic Process on Chromium-Contaminated Soil. <i>Electrokinetic Remediation for Environmental Security and Sustainability</i> , 303-323.
73.	Tanwi Priya, Brijesh K. Mishra* and MNV Prasad (2020). Physico-chemical techniques for the removal of disinfection by-products precursors from water. Disinfection By-products in Drinking Water (pp. 23-57). Elsevier, Butterworth-Heinemann. United Kingdom.
74.	Arukula Deepa and B. K. Mishra* (2020). Microbial Biotransformation of Hexavalent Chromium [Cr(VI)] in Tannery Wastewater. Microbial Bioremediation & Biodegradation (pp.143-152) Springer Nature Singapore Pte Ltd.
75.	Naz, A.*, Chowdhury, A., & Mishra, B. K (2020) . An Insight into Microbial Remediation of Hexavalent Chromium from Contaminated Water. In <i>Contaminants in Drinking and Wastewater Sources</i> (pp. 209-224). Springer, Singapore.

D) List of Publication (Conference/workshop):

S. No	Publication Details
76.	Aliya Naz, Abhiroop Chowdhury, Brijesh Kumar Mishra (2021). Applications of Microbes in Bioremediation of Point Source Pollutants from Wastewater. International conference on Community Based Research and Innovations in Civil Engineering (CBRICE-2021) at Manipal University Jaipur, Rajasthan, 18-19 March, 2021.
77.	Sonal, S., & Mishra, B. K. (2019). Optimization of the Operational Conditions for the Treatment of Reactive Dyes through a Statistical Tool: Response Surface Methodology. 8th International Conference on Environment Science and Biotechnology (ICESB 2018) at Chulaongkorn University, Bangkok, Thailand during 19 to 21 December 2018.
78.	Vijay Laxmi Mohanta and Brijesh Kumar Mishra (2018). Monitoring of phenol in river and groundwater of adjoining area of steel city: A case study of Burnpur, West Bengal. International Conference on water resource management. at Jadavpur, West Bengal. January 11-12, 2018.
79.	Tannu Priya, Hariraj Singh and Brijesh Kumar Mishra (2018). Performance of bamboo rings as a packing material over a traditional packing material from ammonia removal through Air Stripping Process. International Conference on water resource management. at Jadavpur, West Bengal. January 11-12, 2018.
80.	Tanwi Priya and B K Mishra (2017). Removal of Aromatic Fractions of Natural Organic Matter from Synthetic Water Using Aluminium Based Electrocoagulation. International Conference on Ecological and Environmental Engineering (ICEEE 2017), Dubai, UAE, Jun 28-29, 2017.
81.	Hariraj Singh and B. K. Mishra (2017). Electrochemical anodic oxidation process for the removal of phenol from synthetic water using graphite electrodes: optimization using box behnken design under response surface methodology. 3rd International Conference on Environment and Ecology (ICEE 2017), Ranchi, Jharkhand, March 27-29, 2017.
82.	Prasun Kumar Chakraborty, Prem Praksh and B.K. Mishra (2017). Removal of heavy

	metals from overburden dump of mine soil using Electrokinetic remediation. 3rd International Conference on Environment and Ecology (ICEE 2017), Ranchi, Jharkhand, March 27-29, 2017.
83.	Prem Praksh, Prasun Kumar Chakraborty, and B. K Mishra (2017). Electrokinetic treatment of metals and organic impurities from soil/sludge: A review. 3rd International Conference on Environment and Ecology (ICEE 2017), Ranchi, Jharkhand, March 27-29, 2017.
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