

## RESUME

### PERSONNEL INFORMATION

1. Name : Dr. Brijesh Kumar Mishra
2. Father Name : Shri S. P. Mishra
3. Designation : Assistant Professor
4. Address : Dept. of Environmental. Sci. & Engg.  
Indian Institute of Technology (ISM)  
Dhanbad, Jharkhand- 826004
5. DOB : 06<sup>th</sup> July 1980
6. Email: : [brijesh@iitism.ac.in](mailto:brijesh@iitism.ac.in)  
[bkmishra3@rediffmail.com](mailto:bkmishra3@rediffmail.com)
7. Phone/Fax/Mobile No. : +91-326-235476 (O);  
+91-326-2296624 (Fax);  
+91-9471191704 (Mob)



### Educational Qualifications:

S. No.	Degree	Year	Institution/University	% of Marks
1.	B. TECH (Agriculture Engineering)	2002	AAI (Deemed University)	76.4
2.	M. Tech (Environmental Engineering)	2004	MNNIT	76.6
3.	Ph. D (Environmental Science & Engineering)	2014	ISM Dhanbad	Awarded

### Teaching and Research Experience:

S. No.	Designation	Institution	Nature of Job	Period of Experience	Pay Scale (Basic +AGP)
1.	Assistant Professor	SHIATS (Deemed University)	Teaching and Research	16.08.2005 to 13.06.2011	8000-275-13500
2.	Assistant Professor	ISM, Dhanbad	Teaching and Research	14.06. 2011 to 31.12.2014	15600-39100 With AGP 6000
3.	Assistant Professor	IIT(ISM), Dhanbad	Teaching and Research	01.01. 2015 to 31.12.2017	15600-39100 With AGP 8000
4.	Assistant Professor	IIT(ISM), Dhanbad	Teaching and Research	01.01. 2018 to till nom	131400/-

## Research Interests:

1. Treatment of Water and Wastewater by physical and chemical method.
2. Pollution exposure and human health risk assessment
3. Enhance coagulation process for removal of pollutant from water
4. Development of low cost adsorbent
5. In-situ remediation of soil/sludge by physical and chemical method.

## Details of Ongoing/Completed Research & Development Projects

S. No	Title of the Project	Funding Agency	Amount (Lakhs)	Status	Role
1.	Influence of Chlorine Disinfectant and Natural Organic Matter Gradients on Disinfection By-Product Formation in Drinking Water of Some Indian Cities <b>(DST(95)/2013-2014/ 381/ESE)</b>	SERB-DST	23.186	On going	PI
2.	High Ash Coal Gasification and Associated Upstream and Downstream Processes (Coal to Chemicals, CTC) <b>CIL (8)/2017-2018/539/CHEMICAL ENGG</b>	CIL	1872.007	On going	Co-PI
3.	Remediation of Ground Water Contaminated with Hexavalent Chromium in Sukhina Valley, Odisha, using Nano Zero Valent Iron (nZVI) Technology <b>(MoEF(1)2015- 16/443/ESE)</b>	MoEF&CC	24.80	On going	Co-PI
4.	Control of Disinfection by Products formation in drinking water supplies of India <b>MDWS/2015-16/453/ESE)</b>	MRD	25.2	On going	Co-PI
5.	Study to develop and improved nitrification in AIS at BOT Plant <b>Tata Steel/2017-18/535/ESE</b>	Tata Steel	40	On going	Co-PI
6.	Investigation of the electrocoagulation technique process for the removal of Fe (II) from tap water of ISM campus <b>(TEQIP/BKM/ESE)</b>	TEQIP - II	1.00	Completed	PI
7.	Assessment of disinfection requirement for drinking water in ISM Campus Dhanbad <b>(Minor/BKM/ESE)</b>	ISM Dhanbad	0.99	Completed	PI
8	Electro Kinetic Removal of Toxic Contaminants from Municipal Sewage Sludge <b>(FRS(39)/2012-13/ESE)</b>	ISM Dhanbad	8.65	Completed	PI

**Ongoing/Completed Consultancy Projects:**

<b>S. No.</b>	<b>Consultancy Name</b>	<b>Funding agency</b>	<b>Remark</b>
1.	Rapid Environmental Audit Report of Jindal Power Limited, Tamnar, District Raigarh (CG) (CONS/1631/12-13)	Jindal Power Limited	Expert Member
2.	Testing of Water Sample from PB Area of BCCL (CONS/2038/12-13)	BCCL	CI
3.	Water sample testing of DWS Division, Hazaribagh (CONS/2082/12-13)	DWS	CI
4.	Testing of Heavy metals of water sample (CONS/2205/13-14)	Aditi R & D	CI
5.	Ground water quality analysis CCL Rajrappa area (CONS/2206/13-14)	HIL	CI
6.	Effluent Analysis as per EPA 1986 PIS 2296 (CONS/2318/13-14)	TATA	CI
7.	Testing of Mine Water Effluent from Bararee Colliery (CONS/2331/13-14)	BCCL	CI
8.	Testing of Industrial Effluent Mine, Pitwater (1 No.) (CONS/2332/13-14)	BCCL	CI
9.	Testing of Industrial Effluent Mine, Pitwater (1 No.) (CONS/2333/13-14)	BCCL	CI
10.	Analysis of one air Sample at the Surface of the mine & One Water Sample from the Main discharge of Mine Water (CONS/2432/13-14)	BCCL	CI
11.	Analysis of 1 air sample at the Surface of the Mine one water sample from the main discharge of Mine water (CONS/2504/14-15)	BCCL	CI
12.	Monitoring of Ambient air (one station) and Analysis of Mine Water (one Sample) for Bararee Colliery of BCCL (CONS/2558/14-15)	BCCL	CI
13.	Analysis of Ambient air Sample & Water Sample from Main Mine discharge of Bararee Colliery (CONS/2651/14-15)	BCCL	CI
14.	Analysis of Amient air Sample and Water Sample from Main Mine discharge of Bararee Colliery, BCCL (CONS/2793/14-15)	BCCL	CI
15.	Water quality analysis of Damoder river (CONS/2235/13-14)	Rites Ltd.	CI
16.	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	CI
17.	Geo Enviro study of abandoned mines for flyash backfilling (CONS/2927/15-16)	MPL	CI
18.	Analysis of Ambient air sample & Water sample from Main	BCCL	CI

	Mine discharge of Bararee Colliery. (CONS/2946/15-16)		
19.	Testing of Water Sample near Rajrappa Area (CONS/3021/15-16)	HIL	CI
20.	Suitability test of Water (CONS/3032/15-16)	CCL	CI
21.	Testing of water samples of Joyarampur Pressure filter under Lodhna Area (CONS/3090/15-16)	BCCL	CI
22.	Analysis of ambient air sample & Waters sample from main mine discharge of Bararee Colliery (CONS/3091/15-16)	BCCL	CI
23.	Monitoring of Environmental Parameters in respect of Ambient air Stack Monitoring Noise Level and Effluent Discharge at BTPS B (O&M). (CONS/1440/12-13)	DVC	Member
24.	Monitoring of Environmental Parameters in respect of Ambient air, Stack Monitoring Noise Level & Effluent of DVC, BTPS „B“ (CONS/1817/12-13)	DVC	Member
25.	Monitoring of Environmental Parameters in respect of Air, Noise, Water & Stocle Unit 7 & 8 of CTPS Chandrapura (CONS/1235/12-13)	DVC	Member
26.	Rapid Env. Audit of 4 x 250 MW Power Plant of JPL (CONS/1631/12-13)	JPL	Member
27.	Monitoring of Environmental Parameters in respect of ambient air stock Monitoring Noise level and effluent discharged of BTPS (CONS/2231/13-14)	DVC	Member
28.	Efluent Analysis as Per EP Act 1986 (CONS/2367/13-14)	TATA	Member
29.	Environmental Monitoring by Third Party (CONS/2371/13-14)	NTPC, Unchahar	Member
30.	Study of Leaching of Heavy Metals from Fly ash (CONS/2412/13-14)	TATA	Member
31.	Water Table Study of Sarabh Automobile Plant	SA	Member

	<b>(CONS/2483/13-14)</b>		
<b>32.</b>	Monitoring of Environmental Parameters in respect of Ambient air Stack Monitoring Noise Level and effluent discharge of BTPS'B <b>(CONS/2705/14-15)</b>	DVC	Member
<b>33.</b>	Technical Consultancy for Wastewater Management and Control of Water Pollution from plant and Mines of Kirandul Complex <b>(CONS/2794/14-15)</b>	NMDC	Co-CI
<b>34.</b>	Testing of two Waste Water Samples for M/S ENC Ltd. <b>(CONS/2556/14-15)</b>	ENCL	Co-CI
<b>35.</b>	Design of Settling Pond at Ambuja Cement Plant <b>(CONS/2568/14-15)</b>	ACL	Member
<b>36.</b>	Impact of Mining Activities on Hydrology and Hydrogeology of Core Zone Covering all 5 underground Mines of Tata Steel. <b>(CONS/2674/14-15)</b>	TSL	Co-CI
<b>37.</b>	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 <b>(CONS/2675/14-15)</b>	DVC	Co-CI
<b>38.</b>	Technical consultancy for Wastewater Management <b>(CONS/3049/15-16)</b>	NMDC	Co-CI
<b>39.</b>	Study of Leaching of Heavy Metals <b>(CONS/2949/15-16)</b>	TSL	Co-CI
<b>40.</b>	Assessment of heavy metal pollution index (HPI) in water, sediments and aquatic samples in and around Manikpur open cast mine fly ash fill site. <b>(Work order received)</b>	NTPC	CI
<b>41.</b>	Techno Economic Study for Transportation for fly ash from CSPGCL Korba to Manikpur Open Cast Mines. <b>(CONS/3469/16-17)</b>	CSEB	CI
<b>42.</b>	Assessment of surface water at different location of Dhanbad. <b>(Work order received)</b>	TATA	CI
<b>43.</b>	Assessment of ground and surface water at Muri. <b>(Work order received)</b>	Hindalco	CI

## **List of Publication (SCI Journal)**

1. Tanwi Priya, Prem Prakash, **B.K. Mishra** (2018). Understanding the coagulant activity of zirconium oxychloride to control THMs formation using response surface methodology. *Ecotoxicology and Environmental Safety* 159:28–37.
2. 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. *Separation Science and Technology*. DOI: 10.1080/01496395.2018.1467449.
3. Naz, A., Chowdhury, A., **Mishra, B. K.**, & Karthikeyan, K. (2018). Distribution of heavy metals and associated human health risk in mine, agricultural and roadside soils at the largest chromite mine of India. *Environmental geochemistry and health*, 1-21.
4. Singh, H., Sonal, S., & **Mishra, B. K.** (2018). Hexavalent chromium removal by monopolar electrodes-based electrocoagulation system: optimization through Box–Behnken design. *Journal of Water Supply: Research and Technology-Aqua*, 67(2), 147-161.
5. Tanwi Priya, Abhrajyoti Tarafdar, Bramha Gupta and **B K Mishra** (2017). Effect of biofloculants on the coagulation activity of alum for removal of trihalomethane precursors from low turbid water. *Journal of Environmental Science*. DOI.org/10.1016/j.jes.2017.09.019.
6. 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.
7. 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.
8. **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 Vol* 18(4): 803-816.
9. 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.
10. 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.
11. Hariraj Singh and **B K Mishra** (2016). 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.
12. 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.
13. 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.
14. 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.

15. 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.
16. Minashree Kumari, S.K. Gupta and **B.K. Mishra** (2015). Multi-exposure cancer and non-cancer risk assessment of Trihalomethanes in drinking water supplies – A case study of Eastern region of India. *Ecotoxicology and Environmental Safety*, 113:433–438.
17. 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. *International Journal of Biological Macromolecules*, 72: 356–363.
18. **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. *Journal of Environmental Health Science & Engineering*; 12:73.

#### **List of Publication (Scopus)**

1. **B K Mishra**, Manisha, R Gupta and Alok Sinha (2015). Mobility of Toxic Elements in Crop and Agricultural Soil Treated with Municipal Sewage Sludge. *Asian Journal of Water, Environment and Pollution*, 12 (2): 13–19.
2. 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. *Asian Journal of Chemistry*, 27 (4):1398-1402.

#### **List of Publication (International Conference)**

1. Hariraj Singh, **Brijesh Kumar Mishra** (2015). Performance evaluation of the electro-coagulation treatment process for the removal of total suspended solids and metals from water. DOI: 10.1109/WCST.2015.7415140.
2. Hariraj Singh, **Brijesh Kumar Mishra** (2015). Electrocoagulation: A Review- Electricoagulation Treatment Recent Applications for Polluted Water and Wastewater. Challenges and Opportunities for Management of Water Supplies in Rural Areas. ISM Dhanbad Jan 23-24, 2015.
3. **B. K. Mishra**, S.K. Gupta and Alok Sinha (2013). Significance and Importance of Water Quality Parameters for Predictive Modeling Approach of Disinfection Byproduct (DBP) in Drinking Water - A Review SEES. 2nd Annual International Conference on Sustainable Energy and Environmental Sciences Global Science and Technology Forum, Singapore, 25-26 Feb, 2013.
4. P K Yadav, V Babu, B K Mishra, (2012). Remediation by inclusion of electrokinetics to treat municipal water water sludge by the comparison of different chemical approaches. 4th International Conference on Anthropogenic Impact on the Environment and Conservation Strategy. St. Xavier's College, Ranchi, 2-4 Nov, 2012.
5. Amitabh K. Srivastava, *Satyendra Nath*, B.K. Mishra, T. Thomas and C.S. Singh (2009). Comparison of Grey, Fuzzy and Fuzzy Goal Techniques Forecasting Solid Waste Quantities. International Symposium on Rock Mechanics & Geo-Environment in Mining & Allied Industries (RGMA-09), Dept. of Mining Engg., IT; BHU, Varanasi, 12 – 14 Feb. 2009.

6. Afaq Majid Wani, T. Thomas, B.K. Mishra, *S. Nath* and C.S. Singh (2009). Soil Suitability Assessment in Cold Desert areas of Himachal Pradesh and Jammu & Kashmir. International Symposium on Rock Mechanics & Geo-Environment in Mining & Allied Industries (RGMA-09), Dept. of Mining Engg., IT; BHU, Varanasi, 12 – 14 Feb. 2009.
7. Brijesh Kumar Mishra, *S. Nath*, T. Thomas, A. M. Wani, & C.S. Singh (2009): Monitoring and Assessment of Drinking Water Quality Using Water Quality Index. International Symposium on Rock Mechanics & Geo-Environment in Mining & Allied Industries (RGMA-09), Dept. of Mining Engg., IT; BHU, Varanasi, 12 – 14 Feb. 2009.
8. Tarence Thomas, Abhishek James, Arun A. David, S.B.Lal, Archana Yadav. B. K. Mishra and Harel Thomas (2009). Study on River Ganga Pollution During Ardh Kumbh – 2007. International Conference on Precambrian Continental Growth and Tectonism (PCGT – 2009), Deptt., of Geology, Ins. of Earth Sciences, Bundelkhand University Jhansi, 24-28 Feb., 2009, ISBN: 978-93-800043-06-7

#### List of Publication (National Conference)

1. Ibadaiahun Myrthong, **Brijesh Kumar Mishra**, Richa Sharma & N. N. Harry (2012). Study of The Yamuna River Water Quality in Allahabad City. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
2. Arpan Herbert, **Brijesh Kr. Mishra**, Yeetendra Kumar & Neelam Khare (2012). Physicochemical Characterization of Catchment Area Water in Allahabad City. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
3. Swati Tomar, S. K. Gupta & **B. K. Mishra** (2012). Anaerobic Ammonium Oxidation (Anammox) Process for Nitrogen Removal – A Review. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
4. Kumari, M., Gupta, S. K., and **Mishra, B. K.** (2012). Chlorination By-Products Formation and their Removals from Drinking Water. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
5. Navneet Sharma, Komal Agrawal, Alok Sinha & **Brijesh K. Mishra** (2012). Groundwater Management in Mining Areas. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
6. Pramod Kr. Singh, **B. K. Mishra**, S. K. Gupta & Alok Sinha (2012). Distribution and Propagation of Arsenic In Indogangatic Plain And Removal Technology. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
7. Afaq Majid Wani & B.K. Mishra (2012). Effect of Ground Water on Soil and Vegetation in Cold Desert Areas of Himachal Pradesh. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.



8. Vinod Babu.V, Pravesh Kumar Yadav, M.K.Ghritlahre, Anshu Rakesh, B.K.Mishra (2012). Effect of Climate Change on Groundwater and Different Modelling Approaches for its Assessment- A Review. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
9. Vikas Srivastava, Rakesh Kumar, Satyendra Nath, B. K. Mishra and P. K. Mehta (2012). Solid Wastes in Construction. National Conference on Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012. ISM, Dhanbad, 22-23 March, 2012.
10. S.B. Lal, Saumya, B.K. Mishra, Satyendra Nath (2010). Study on sewage treatment plant effluent induced physiochemical changes in river Yamuna (Allahabad) U.P. National Conference on Health & Environment: Issues Challenges, SHIATS- Allahabad, 06-07 May, 2010.
11. B.K. Mishra, Satyendra Nath, T. Thomas, R. Gupta, S. Daniel and A. James (2009). Absorption and reclamation of toxic elements in agricultural soil and crop treated with sewage sludge. Workshop on Rehabilitation of Degraded Lands (RDL 2009), Center for Social Forestry & Eco Rehabilitation, Allahabad, 6-7<sup>th</sup> Oct, 2009.
12. S. Dutta, B. K. Mishra and S. B. Lal (2008). A case study of Solid Waste Management in Allahabad city. National Conference on Scientific and Legal challenges of global warming. Brahmanand College, Kanpur University, Feb, 25-26.
13. *Satyendra Nath*, B.K.Mishra, H.B.Paliwal, R.Sharma, A.James and C.J. Wesely (2008). Water quality assessment of river Ganges at Sangam, Allahabad. 5th IAUA National Symposium on Environmental pollution and it's effect on agriculture production and human health. AAI-Deemed University, Allahabad, Sept 25-26.
14. Abhishek James, T.Thomas, Manoj Verma, *S.Nath*, Rambharose, A.A. David, B. K. Mishra, C. S. Singh and H. Thomas (2008). Impact of mining of granite in Jhanshi and surrounding areas. National Conference on Environmental Management in Mining and Allied Industries, Department of Mining Engineering, IT-BHU, Varanasi. Nov. 7-8.
15. Thomas T., B. K. Mishra, Abhishek James, Ram Bharose, Arun A. David, Singh C. S. and Thomas H (2008). Environmental Impact of Fly Ash on Soil Health, Yield and Nutrient Uptake by Rice. National Conference on Environmental Management in Mining and Allied Industries. Department of Mining Engineering, IT-BHU, Varanasi, Nov. 7-8
16. Durgesh Kumar, B. K. Mishra, Abhishek James, Thomas T., Ram Bharose, Arun A. David Singh, C. S. and Thomas H (2008). Assessment of Ambient Air Pollutants at Different Sites of Allahabad City, Department of Mining Engineering, IT-BHU, Varanasi. National Conference on Environmental Management in Mining and Allied Industries, Nov. 7-8.

#### **Reviewer for Refereed Journals:**

1. Exposure and Health, Springer Publishing house
2. Ecotoxicology and Environmental Safety, Elsevier Publishing house
3. Separation and Purification Technology
4. GLOBAL Nest Journal, Greece
5. Clean Soil Air and Water, Willey Publishing house
6. Environmental Engineering Research

**Details of Ph. D students:**

S. No	Name of Student	Year	Title of the Dissertation
1.	Ms Aliya Naz	Degree Awarded (2017)	<b>Risk Assessment of Chromium in the Chromite Mine Water and Its Bioremediation</b>
2.	Ms. Tanwi Priya	Thesis Submitted (2018)	<b>Spectral Indices modelling approach for the treatment of aromatic fractions of Natural Organic Matter to control Trihalomethanes precursors</b>
3.	Mr. Prem Prakash	2014 - Ongoing	Optimization of Electrokinetic Process for Removal of Organic Compounds and Metal from Soil/Sludge with Modified Electrolytes.
4.	Mr. Hariraj Singh	2015 – Ongoing	Treatment Feasibility of Electro-Coagulation Process for Removal of Priority Pollutants in Coke Oven Waste Water
5.	Ms. Arkulla Deepa	2015 – Ongoing	Performance and Evaluation of hybrid treatment system of biological and electrocoagulation for removal of pollutants
6.	Mr Pravesh Yadav	2015 – Ongoing	Assessment of Environmental and Economic Feasibility of Enhanced Landfill Mining
7.	Mr Dinesh Saini	2015 – Ongoing	Removal of acidity from acid mine drainage in a bench scale biochemical treatment system
8.	Mr Rajendra Bahadur	2015 – Ongoing	Impact of Waste on the Quality of Water and Soil Environment in Depot and Diesel shed of N.E. Railway
9.	Mr. Saurabh Kumar Soni	2015- Ongoing	Development of River Pollution Index (RPI) and cluster zone for beneficial use of Kali river of Meerut district
10.	Ms Astha Singh	2016- Ongoing	Kinetics of Hybrid process of Electrochemical & Photo catalytic System for Removal Selected Pharmaceutical Waste
11.	Ms. Sonalika	2016- Ongoing	Performance Evaluation of Natural and Hybrid Coagulant for Treatment of Dye Wastewater
12.	Ms. Vijay Laxmi Mohanta	2016- Ongoing	Establishment of suitable aggregation function for development of RPI, risk factor and cluster zone for selected stretch of Damodar River using Hyperion Data

**M. Tech Thesis Guided:**

<b>S. No.</b>	<b>Topic</b>	<b>Name of students</b>	<b>Year</b>
1.	The study on Geochemistry of Govind Ballabh Pant Sagar, Singrauli, India	Ashish Kumar	2013
2.	Evaluation and performance of electromagnetic system for removal efficiency of toxic contaminants from municipal sewage sludge	Pravesh Kumar Yadav	2013
3.	Assessment of water and soil quality in opencast coal mine area, Rajrappa	Tanmoy Hazara	2014
4.	Air and noise quality assessment of flyash dumping area of Rajrappa	Rakesh Kumar	2014
5.	Investigation of the Electro-coagulation Treatment process for the Removal of Metals from Mine Water	Hariraj Singh	2015
6.	In-situ influence of coal ash dump on neighboring surface and ground water	Nitesh Kumar	2015
7.	Feasibility analysis of sewage treatment plant at TATA steel, West Bokaro, Jharkhand	Vinay Anchal	2016
8.	Assessment of Removal Efficiency of Disinfection By-Products (DBPs) precursor by Enhanced Coagulation	Vijay Laxmi	2016
9.	Assessment of water quality in and out abandoned mines of ECL Mugma area Using Water Quality Index(WQI)	Shreya Sharma	2016
10.	Assessment of influence of NOM and oter operational condition during chlorination and control strategies of THMs in drinking water	Bramha Gupta	2017
11.	Assessment of Soil fertility by direct impact of electro kinetic process on chromium contaminated soil	Prasun Kumar Chakraborty	2017
12.	Characterization of biochar derived from Neem seed shell and Its Performance, kinetics, and equilibrium for the adsorption of RBBR from aqueous solution	Provashish Ghosh	2018
13.	Triclosan adsorption by Graphene Oxide: Isotherms, Kinetics and Thermodynamics analyses	Rohit Kumar	2018
14.	Optimization of Air Stripping process for the removal of ammonia in coke oven wastewater.	Tannu Yadav	2018

**M.Sc. Thesis Guided:**

<b>S. No.</b>	<b>Topic</b>	<b>Name of students</b>	<b>Year</b>
1.	Assessment of Ambient Air Pollutants At Different Sites Of Allahabad City	Durgesh Kumar	2007
2.	Survey and Analysis of Solid Waste Management in Allahabad City	Soumyajit Datta	2007
3.	Impact of Sewage Pollution on Physico Chemical and Microbial Characteristics of Some Water Bodies in Allahabad District	Siddharth Mishra	2007
4.	Adsorption of fluoride from aqueous solution using fly ash and sawdust	Pawan Kumar Mishra	2008
5.	Monitoring of drinking water quality index at Naini Allahabad	Anjali Singh	2008
6.	Assessment of toxic metal in tree bark and soil at road side	Purvee Gupta	2009
7.	Monitoring of Ambient Air Pollutants At NTPC Tanda	Jyoti Kumari	2009
8.	Absorption of toxic elements in radish crop & Agricultural soil treated with municipal sewage sludge	Rashi Gupta	2009
9.	Study on removal of Zn from aqueous solution using tea waste as an adsorbent	Surabhi Singh	2010
10.	Study of Yamuna river water quality in Allahabad city	Ibadaiahun Murthong	2010

**Editor of Course Volume:**

<b>S.No.</b>	<b>Particulates</b>
1.	Editor of National conference “Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012”
2.	Editor of 3-Days Training Program for Executives of Drinking Water and Sanitation Department, Ranchi on “Water and Wastewater Treatment and Management”.
3.	Editor of 3-Days Training Program of KRC for Executives of Drinking Water and Sanitation Department, Ranchi on “Assessment of Water Quality and Low cost Treatment methods for Rural Water Supply”.
4.	Editor of National Workshop “Challenges and Opportunities for Management of Water Supplies in Rural Areas, COMWRA 2015”
5.	Editor of 3-Days Training Program of KRC for Executives of Drinking Water and Sanitation Department, Ranchi on “Design and Implementation of Rainwater Harvesting System for Augmentation of Rural Water Supply”
6.	Editor of 3-Days Training Program for Executives of different industry on “Water Quality and Treatment”
7.	Editor of 3-Days Training Program for Executives of different industry on “Water Quality and Management”

**Organization of Conference/Short term course:**

<b>S.No.</b>	<b>Particulates</b>	<b>Date</b>	<b>Responsibility</b>
<b>1.</b>	Organized two day national conference on “Sustainable Development of Groundwater Resources in Industrial Regions SDGRIR 2012”	<b>22-23 March, 2012</b>	<b>Treasure</b>
<b>2.</b>	Organized 3-Days Training Program for Executives of Drinking Water and Sanitation Department, Ranchi on “Water and Wastewater Treatment and Management”. <b>(CONS/1970/12-13)</b>	<b>November 7-9, 2012</b>	<b>Member</b>
<b>3.</b>	Organized 3-Days Training Program For Executives Of Drinking Water And Sanitation Department, Ranchi under KRC scheme on “Assessment of Water Quality and Low cost Treatment methods for Rural Water Supply” <b>(KRC/ESE/13-14)</b>	<b>15-17 October, 2014</b>	<b>Member</b>
<b>4.</b>	Organized two day national workshop on “Challenges and Opportunities for Management of Water Supplies in Rural Areas, COMWRA 2015”	23-24 January, 2015	<b>Treasure</b>
<b>5.</b>	Organized 3-Days Training Program for Executives of different industry on “Water Quality and Treatment” <b>(CONS/3080/15-16)</b>	<b>28-30 January, 2016</b>	<b>Co-CI</b>
<b>6.</b>	Organized 3-Days Training Program for Executives of Drinking Water And Sanitation Department, Ranchi under KRC scheme “Design and Implementation of Rainwater Harvesting System for Augmentation of Rural Water Supply” <b>(KRC/ESE/13-14)</b>	<b>21-23 January, 2016</b>	<b>Co-CI</b>

**Abroad Visit:**

1. Presented the review paper on the “Significance and Importance of Water Quality Parameters for Predictive Modeling Approach of Disinfection Byproduct (DBP) in Drinking Water - A Review” in 2nd Annual International Conference on Sustainable Energy and Environmental Sciences at Singapore during 24 to 28 February 2013.
2. 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.

**Refresher course/short term course attended:**

1. 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)
2. 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

**Member of Professional body:**

1. Indian Water Works Association
2. The Mining, Geological and Metallurgical Institute of India



**(B. K.Mishra)**