

## CV



**Name & Designation:** Dr. Anshumali,  
Assistant Professor

**Date of Birth:** 27.09.1975

**Corresponding Address:**

Department of Environmental Science and Engineering  
Indian School of Mines  
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**Educational Qualification:**

Examination	Year	Board/University	Subjects	Division
Matriculation	1990	BSEC, Patna	Arts, Sciences	I <sup>st</sup>
Intermediate	1992	BIEC, Patna	PHY, CHR, BIO, MATH, Hindi, ENG	I <sup>st</sup>
B.SC.	1996	B.H.U., Varanasi	BOTANY	I <sup>st</sup>
*M.Sc.	1998	B.H.U., Varanasi	BOTANY	I <sup>st</sup>
**M.Phil.	2003	J.N.U., New Delhi	ENVIRONMENTAL SCIENCES	I <sup>st</sup>
***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 Dr. 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 Dr. AL. Ramanathan, SES, J.N.U., New Delhi, 2006.

**Area of Specializations:** Terrestrial/Aquatic Ecology, Biogeochemistry, Environmental Microbiology, Restoration Ecology.

**Awards/Honors/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) for in subject Life-Sciences held on 31.12.2001.
- Appeared in Shyama Prasad Mukherjee Fellowship test held on 14th July, Kolkata, 2002.

**Professional Experience:**

Designation	Period	Basic Pay + AGP	Organization
CSIR-UGC JRF (Life Sciences)	2002-2003	12,000/-	JNU
CSIR-UGC SRF (Life Sciences)	2004-2006	14,000/-	JNU
Assistant Professor	Feb 2007-Feb 2009	Pay band-3 +6000	I.S.M.
Assistant Professor	Feb 2009-Feb 2010	Pay band-3 +7000	I.S.M.
Assistant Professor	Feb 2010- Sep 2013	Pay band-3 +8000	I.S.M.
Assistant Professor	Sep 2013-Continuing	Pay band-4 +9000	I.S.M.

## **Empanelled Expert/Member/Life Member in Government Bodies**

- **Appointed as 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, Thursday, January 8, 2015/PAUSA 18, 1936).
- **Member (Assistant Professors Constituency)** of General Council and Executive Board (GC & EB), Indian School of Mines, Dhanbad, 2014-15.
- **External Expert** in the Board of Studies in Department of Biotechnology (2014-15), Vinoba Bhave University, Hazaribag, Jharkhand.
- **External Expert** in the Board of Studies for framing Syllabi of M.Sc. (Environmental Science, 2014-15), Vinoba Bhave University, Hazaribag, Jharkhand.
- **Life Member (L-1725)** of Geological Society of India P.B. No. 1922, Gavipuram P.O. Bangalore – 560 019, India.
- **Empanelment as Functional Area Expert** for CMPDIL, Ranchi, 2013-2015.
- **NABET-QCI accreditation as a Functional Area Expert (FAE)** in the area of Ecology and Biodiversity, Water pollution and Control, Soil Pollution and Control for “A” type industries for preparing EIA/EMP.
- **Life Member (LM-803)** of Indian Geological Congress, Post Box No. 114, 402/1, 35A, Civil Lines, Roorkee-247 667 (INDIA).

## **Foreign Nations Visited**

- France
- USA
- Republic of Macedonia

## **List of Publications** **National & International Journals**

- (i) Prasad MBK, Ramanathan AL, Shrivastava SK, Anshumali, Saxena R, (2006). Metal fractionation studies in surficial and core sediments in the Achankovil River basin in India. **Environmental Monitoring and Assessment, 121: 77-102. (Impact factor: 1.679)**
- (ii) Anshumali, Ramanathan AL, (2007). Seasonal variation in the major ion chemistry of Pandoh Lake, Mandi District, Himachal Pradesh, India. **Applied Geochemistry, 22:1736-1747. (Impact factor: 2.021)**
- (iii) Anshumali, Ramanathan AL, (2007). Phosphorus fractionation in surficial sediments of Pandoh Lake, Mandi district, Himachal Pradesh, India. **Applied Geochemistry, 22: 1860-1871. (Impact factor: 2.021)**

- (iv) Anshumali, A. L. Ramanathan, Gurdeep Singh, Gurmeet Singh, Rajesh Ranjan, Parijat Tripathi (2009). Chemodynamics of trace metal fractions in surface sediments of the Pandoh Lake, Lesser Himalaya, India. **Environmental Geology**, **57**: 1865-1879. (Impact factor: 1.572)
- (v) A.T. Surendra, Anshumali, Gurdeep Singh, (2009). Prediction of plant species diversity by log-linear and power function models along the east coast region of India. **Tropical Ecology**, **50**(1). (Impact factor: 0.708).
- (vi) Dora, S. L. Maiti S.K., Tiwary, R.K., Anshumali, 2010. Algae as an indicator of river water pollution: A review. **The Bioscan**, **2**: 413-422. (ISSN:0973-7049)
- (vii) Tripathi P., Anshumali, 2011. Arsenic enrichment in groundwater of the Middle Gangetic plain, India. **Minervis**, **69-70**: 7-18.
- (viii) Tripti, Vipin Kumar, Anshumali, (2012). Phosphate solubilising activity of some bacterial strains isolated from chemical pesticide exposed agricultural soils. **International Journal of Engineering Research and Development**, **3**(9): 1-16. (ISSN:2278-800X)
- (ix) Anshumali, Rani M., Yadav S., Kumar A., 2012. Impact of Mining activities and Allied Industries on Geochemistry of Govind Ballabh Pant Sagar, Northern Coalfield, India. **Journal Indian Geological Congress** **4**(1): 1-7. (ISSN:2229-435X)
- (x) Anshumali, Rani M., Yadav S., Kumar A., 2014. Geochemical alterations in surface waters of Govind Ballabh Pant Sagar, Northern Coalfield, India. **Environmental Earth Science** **71**:3181–3193. (Impact factor: 1.572).
- (xi) Sengupta C., Anshumali, 2013. The height:diameter ratio dependent eecis of native plant seedlings: Implication in restoration of OB dumps. **The Ecoscan**, **3**: 281-287. (ISSN:0974-0376)
- (xii) Mishra S., Anshumali, 2014. Forest structure and diversity in the tropical deciduous forests of Jharia Coalfield, Jharkhand. **The Indian Mining & Engineering Journal**, **53**(03), 14-18. (ISSN:0019-5944)
- (xiii) Mishra S., Anshumali, 2014. Identification of plant community structure in Tropical Deciduous forests around, Eastern India. **The Indian Mining & Engineering Journal**, **53**(08), 14-18. (ISSN:0019-5944)
- (xiv) Mishra S., Anshumali, 2014. Dispersion pattern of legumes and non-legumes in the Tropical Deciduous Forests around Jharia Coalfield, Eastern India. **Indian Journal of Tropical Biodiversity** **22**(1): 45-50. (ISSN 0971-4642).
- (xv) Mishra S., Anshumali, 2014. Phytosociological analysis of native species in the Tropical Deciduous Forests around Jharia Coalfield, Eastern India. **International Journal of Applied Environmental Sciences** **9**(4):2243-2253. (ISSN: 0973-6077, Scopus, H index:3, SJR:0.114)
- (xvi) Shruti Mishra, Sanjay Yadav, Manisha Rani, Anshumali. Floristic Composition, Diversity and Regeneration of Plant Species in Tropical Deciduous Forests, India. **Ecology, Environment and Conservation**. Accepted for 2015 **21**(3) issue. (ISSN: 0971-765X, Scopus, H index: 9, SJR:0.141)

(xvii) Bijendra Kumar, Aasma Naaz, Kriti Shukla, Chandravir Narayan, Govind Singh, Alok Kumar, AL Ramanathan, Anshumali (2014) Spatial variability of fluorine in agricultural soils around Sidhi District, Central India. **J. Geol. Soc. India. Springer** (Accepted)

(xviii) Bijendra Kumar, Anshumali, Aasma Naaz, Kriti Shukla, Chandravir Narayan (2014). Physico-chemical characterization of irrigated and rainfed agricultural soil Sidhi district, M.P. **Current World Environment. Thomson Reuter** (Accepted)

### **International Conference**

(i) Kumari N, Anshumali, Singh G, (2007). Impact of coal mining on ponds of Jharia Town, Dhanbad, Jharkhand. In: Singh G, Laurence D, Dutt KL, (Editors), Proceeding of First International Conference on MSECCMI, New Delhi, India, 121-127.

(ii) Anshumali, AL. Ramanathan, Gurdeep Singh, (2009). Geochemical fractionation of trace metals in the surface sediments of Achankovil River, Kerala, India. In: International Symposium on Environmental Pollution, Ecology and Human Health, July 25-27, 2009, S. V. University, Tirupati, India.

(iii) Anshumali, AL. Ramanathan, G. Singh, R. Ramesh, V. Kannan; R. Elumalai, (2009). Estimation of sedimentation rate by radiometric techniques in the oligotrophic lake, Lesser Himalaya, India. In: International Symposium on Mineralogy, Environment and Health, UMLV, Paris, 17-18 September, 2009.

(iv) Anshumali et al., (2011). Microbial enzyme assay as a surrogate measure of soil microbial activity in Jharia Coal Field, India". In: 26<sup>th</sup> International Conference on Solid Waste Technology and Management during March 27 – 30, 2011 at Philadelphia, PA U.S.A.

(v) Anshumali, (2011). Ecological amplitude of five tropical deciduous species in restoration of mined out areas in Jharia Coalfield, India. In: Golden Jubilee International Conference on Technological Challenges and Management Issues for Sustainability of Mining Industries (TMSMI 2011), 4<sup>th</sup> to 6<sup>th</sup> August, 2011 at N. I. T. Rourkela.

(vi) S.K. Yadav, M. Rani, Anshumali, (2011). Geochemistry of Arsenic in Indo-Gangetic Plain: A Review. In: 14th International Conference of International Academy of Physical Sciences (CONIAPS-XIV), Sardar Vallabhbhai National Institute of Technology, Surat, December 22-24, 2011.

(vii) Anshumali, P. Tripathi, (2012). Arsenic enrichment in groundwater of the Middle Gangetic Plain, India. In: The Fifth International Scientific Conference BALWOIS 2012, Ohrid, Republic of Macedonia, 28th May to 2nd June 2012.

(viii) Shruti Mishra, Chandravir Narayan, Anshumali, Vipin Kumar, (2012). The study on phytosociology of plant species in tropical dry deciduous forests of Jharia Coalfield, Jharkhand, India. In: International conference on Anthropogenic Impact on Environment and Conservation Strategy November 2 – 4, 2012, Organised by Department of Biosciences, St. Xavier's College, Ranchi In collaboration with National Environmentalists Association, India, Ranchi, Jharkhand.

(ix) Tripti, Vipin Kumar, Anshumali, (2012). Bio-formulation and Shelf-life Studies of Phosphate Solubilizing Inoculants in Different Carriers In: International conference on Anthropogenic Impact on Environment and Conservation Strategy, November 2 – 4, 2012,

Organised by Department of Biosciences, St. Xavier's College, Ranchi In collaboration with National Environmentalists Association, India, Ranchi, Jharkhand.

(x) Narayan C., Kumar A., Ghritlahre M.K., Anshumali, 2014. Structure and floristic composition of tropical deciduous forests around Bokaro district, Jharkhand, India. In: Tropical Ecosystems in Changing World, Tropical Ecology Congress, 10-12<sup>th</sup> December 2014, Jawaharlal Nehru University New Delhi-110067

(xi) Shukla K., Anshumali, 2014. Review on biogeochemistry of some micronutrients in agricultural soils, India. In: Tropical Ecosystems in Changing World, Tropical Ecology Congress, 10-12<sup>th</sup> December 2014, Jawaharlal Nehru University New Delhi-110067

### **National Conference**

(i) Anshumali, Ramanathan, AL., (2008). Physical fractionation of trace metals in surface sediments of the Pandoh Lake, Lesser Himalaya, India. In: Choubey V.K., Singh R.D., Singh O., Sharma M.K., (Editors), Proceeding of National Seminar on "Conservation and Restoration of Lakes (CAROL, 2008), Nagpur, India, 257-266.

(ii) Anshumali, (2011). Ecological Blueprint of Plantation in Mining Sectors: an Implication in Biodiversity Conservation and Climate Change. In: National Conference on Landscape Restoration Processes Challenges and Opportunities, 22-23 February, 2011, FRI, Dehradun.

(iii) Anshumali, A. Kumar, M. Rani, S. Yadav, S. P. Singh, (2012). Impact of coal mining and allied industries on geochemistry of Govind Ballabh Pant Sagar, Northern Coalfield, India. In: National Conference on Green Earth, October 18-19, 2012, Organised by Indian geological Congress and Wadia Institute of Himalayan Geology, Dehradun.

(iv) Tripti, Vipin Kumar, Anshumali, (2012). Evaluation of pesticide tolerance capability of phosphate solubilising bacterial (PSB) strain. In: 2<sup>nd</sup> National Conference on Antimicrobial Resistance: A Cause for Global Concern, 6-8 February, 2012, Sam Higginbottom Institute of agriculture Technology & Sciences, Allahabad, Uttar Pradesh.

(v) Sanjay Kumar Yadav, Manisha Rani, Anshumali, (2012). Impact of Industries on Groundwater Hardness: A Review. In: National Conference on Sustainable Development of Groundwater Resources in Industrial Regions (SDGRIR 2012), March 22 -23, 2012 Department of Environmental Science & Engineering, ISM, Dhanbad, Jharkhand.

(vi) Tripti, Vipin Kumar & Anshumali, (2012). Contamination of Groundwater By Pesticide And Its Bioremediation-A Short Review. In: National Conference on Sustainable Development of Groundwater Resources in Industrial Regions (SDGRIR 2012), March 22 -23, 2012 Department of Environmental Science & Engineering, ISM, Dhanbad, Jharkhand.

(vii) Manisha Rani, Sanjay Kumar Yadav, Anshumali, (2012). Salinization as Ground Water Pollution in India: A Review. In: National Conference on Sustainable Development of Groundwater Resources in Industrial Regions (SDGRIR 2012), March 22 -23, 2012 Department of Environmental Science & Engineering, ISM, Dhanbad, Jharkhand.

(viii) Sanjay Kumar Yadav, Manisha Rani, Anshumali, (2012). Impact of mining on plant diversity of Northern Coalfield, Singrauli (M.P.), India. In: National Seminar on Biodiversity: Its Conservation & Sustainable Development for Human Welfare, 7-9 April, 2012 Department of Zoology, Vinoba Bhave University, Hazaribag, Jharkhand.

### **Books Published /Chapters Contributed**

(i) Parijat Tripathi, AL. Ramanathan, Pankaj Kumar, Anshumali, P. Bhattacharya, R. Thunvik & J. Bundschuh, (2009).Chapter 20: Arsenic distribution in the groundwater of the Central Gangetic plains of Uttar Pradesh, India. In: Natural Arsenic in Groundwaters of Latin America. (Editors: J. Bundschuh, M.A. Armienta, P. Birkle, P. Bhattacharya, J. Matschullat, A.B. Mukherjee), CRC Press/Balkema, Taylor & Francis Group, pp 215-224.

(ii) Chitralekha, Anshumali, Singh G., (2009) Biogeochemistry of Arsenic in Environmental Samples. In: Singh L, (Editor), New Dimensions in Environmental Geography, Tara Prakashan, Bodh Gaya.

(iii)Anshumali, 2012. Chapter 1: Ecological Blueprint of Plantation in Mining Sectors: an Implication in Biodiversity Conservation and Climate Change. In: Landscape Fragmentation and Restoration Researches in India (Editor: Prafulla Soni & Lal Singh), LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Heinrich-Bocking-Str. 6-8, 66121Saarbrücken, Deutschland / Germany, pp 5-19.

(iv)Bijendra Kumar, Anshumali, Aasma Naaz, Kriti Shukla, Subhash Chandra, Binay Prakash Panigraphy, Ashwani Kumar Tiwari (2014). Fluoride in Groundwater and its Health Hazards: A Review in Indian Scenario. P. 38-45 in Global Sustainability Transitions: Impacts and Innovations (ed. G.C. Mishra ) at 3<sup>rd</sup> International conference on “Sustainable Innovative Techniques in Architecture, Civil and Environmental Engineering” organized by Krishi Sanskriti at JNU, New Delhi, 26<sup>th</sup> and 27<sup>th</sup> April, 2014. (ISBN – 978-93-83083-77-0).

(v) Bijendra Kumar, Anshumali (2014). Fluoride in Agricultural soil: A Review on its sources and toxicity to plants. P. 29-37 in Global Sustainability Transitions: Impacts and Innovations (ed. G.C. Mishra ) at 3<sup>rd</sup> International conference on “Sustainable Innovative Techniques in Architecture, Civil and Environmental Engineering” organized by Krishi Sanskriti at JNU, New Delhi, 26<sup>th</sup> and 27<sup>th</sup> April, 2014. (ISBN – 978-93-83083-77-0).

### **Invited Lecture/Talk**

- Study Abroad Programme on Mining, Environment and Sustainable Development for University of South Florida - ST. Petersburg, USA, From 5 - 18 August, 2014.
- Mining Environment and Sustainable Development for Officials of Ministry of Mines, Govt. of Afghanistan. From 16. 08.2014 to 01.09, 2014.
- Training Programme on Environmental Impact Assessment of Mining Projects, for Officials of Ministry of Mines, Govt. of Afghanistan. From 6<sup>th</sup> to 22<sup>th</sup> December, 2014.
- DST-MOEA-JNU Training Programme on “Natural Resources and Water Management” for Africans in the Jawaharlal Nehru University, New Delhi, December 2014.

## List of Consultancy of Projects

S. No.	Project Title	Name of Client	Role	Details of work Done	Remarks
1	Baseline study of Bagjata and Bhandurang Uranium Mine Deposit in Jadugoda, Jharkhand, India.	BRNS, DAE, 2009	Co-CI	Radiological Analysis in Dietary Components, Soil Survey and Analysis	Completed
2	Regional Development Programme of Angul-Talcher Areas of Orissa, India.	OSPCB, 2007-2010	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis	Completed
3	Preparation of EIA of Madhuban Coal Washery and Cluster-I, BCCL, Dhanbad	BCCL, 2010,	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis	Completed
4	Preparation of EIA of Cluster-I, BCCL, Dhanbad	BCCL, 2010	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis	Completed
5	Design of Particulate Emission Control System & Preparation of Environmental Management Plan for Coke Oven Plants in Dhanbad	Seven Individual Coke Oven Plants, 2010	Team Member	Monitoring of Stack Emission, Design Preparation for Emission control System, Preparation of Environmental Management Plan	Completed
6	Preparation of EIA of Dugda and Patherdih Coal Washery, BCCL, Dhanbad	BCCL, 2011	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis	Completed
7	Preparation of Patherdih Coal Washery, BCCL, Dhanbad	BCCL, 2011	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis	Completed
8	Study for compliance of Forestry Clearance Conditions in respect of Ghanoodih and Bera Projects of Bastacolla Area	BCCL, 2011	Team Member	Nutrient analysis, survey of native plant species, seeding per hectare, seed preservation, seed viability test, breaking of seed dormancy to arrest soil erosion, seeding of grass and legume mixtures, Preparation of Phased reclamation plan, Comprehensive Soil Conservation Plan and Measures	Completed
9	Environmental Impact Assessment & Environmental Management Plan of Lagla-Mahal-Sand Mining Lease	TATA STEEL LIMITED 2007-11	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis, Sediment Survey and Analysis	Completed
10	Environmental Impact assessment & Environmental Management Plan of Damodarpur-Palkiri Sand Mining Lease	TATA STEEL LIMITED 2007-11	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis, Sediment Survey and Analysis	Completed
11	Environmental Impact assessment & Environmental Management Plan of Mahal-Saharjuri Sand Mining Lease	TATA STEEL LIMITED 2007-11	Team Member	Biodiversity Survey and Analysis, Soil Survey and Analysis, Sediment Survey and Analysis	Completed
12	Rapid comprehensive Environmental Audit of 4x250 MW Jindal STPP, Tamnar, Raigarh, Chattisgarh	Jindal Thermal Power Plant, 2011	Co-CI	Survey of STPP for evaluating the performance of various environmental components	Completed
13	Monitoring of Environmental Parameters in respect of Ambient Air, Noise, Stack Emission and	BTPS, 2011	Team Member	Monitoring, collection and analysis of ambient air samples, stack emission and discharged effluent samples	Completed

	Effluent of BTPS, Bokaro				
14	Monitoring of Environmental Parameters in respect of Ambient Air, Noise, Stack Emission and Effluent of DVC, CTPS Unit 1,2,3, 7 & 8	DVC, CTPS, 2011	Team-member	Monitoring, collection and analysis of ambient air samples, stack emission and discharged effluent samples, preparation and compilation of report	Completed
15	Preparation of Environmental Statement of DVC, Bermo Mines	DVC, 2011	Team-Member	Monitoring, collection and analysis of ambient air samples, stack emission and discharged effluent samples	Completed
16	Environmental monitoring for Effluent discharge, stack emission and ambient quality monitoring for DVC, CTPS	DVC, 2011	Team-Member	Monitoring, collection and analysis of ambient air samples, stack emission and discharged effluent samples	Completed
17	Environmental Clearance of Duwagri Sand Lease	TATA STEEL, 2011	Team-Member	Biodiversity Survey and Analysis, Soil Survey and Analysis, Sediment Survey and Analysis	On-going
18	Evaluation of EIA/EMP report on impact of Shivani OC on the Ecology and Biodiversity (EB) and Soil Conservation (SC) component of environment	CMPDIL, Nagpur, 2013	CI	Ecology and Biodiversity (EB) and Soil Conservation (SC)	On-going
19	Evaluation of EIA/EMP report on impact of Niljai Expn. (Deep) OC Wani Area, WCL on the Ecology and Biodiversity (EB) and Soil Conservation (SC) component of environment	CMPDIL, Nagpur, 2014	CI	Ecology and Biodiversity (EB) and Soil Conservation (SC)	On-going
20	EIA/EMP of Rolep Hydroproject, Sikkim	VELANAKANI ENERGY PVT. LTD.	CI	Biodiversity survey	On-going

### List of R&D Projects

S. No.	Title	Role	Amount	Funding Agency	Status
1	Baseline study of Bagjata and Bhandurang Uranium Mine Deposit in Jadugoda, Jharkhand, India	Co-PI	34 lakh	BRNS, DAE, 2009	Completed
2	Regional Environmental Impact Assessment Study of Goa Region	Co-PI	200 lakh	MoEF, 2011	Completed
3	Phosphorus fractionation in surface and core sediments: An Implication in Restoration and Conservation of Govind Ballabah Pant Sagar, Singrauli, M.P.	PI	32.48 lakh	MoES, 2014	On-going

### Ph.D Supervision

S.No.	Candidate	Title of the Research Thesis	Guide/Co-guide	Status
1.	Bijendra Kumar	Phosphorus fractionation in surface sediment: An Implication in Restoration and Conservation of Govind Ballabah Pant Sagar, Singrauli, M.P.	Guide	On-going
2.	Kriti Shukla	Study on biogeochemistry of some micronutrients in	Guide	On-going



		agricultural soils around Sidhi district, M.P., India		
3.	Kumari Priyanka	Soil Carbon fractions in agricultural and forest soils in Jharia Coalfield region, Jharkhand, India	Guide	On-going
4.	Arti Hasnsda	Isolation and characterization of cu(ii) reducing Pseudomonas sp. And their plant growth promoting activity.	Co-guide	On-going
5.	Asmaa Naz	Study on ground water quality and heavy metal toxicity in the Sidhi District, M.P., India	Guide	On-going
6.	Chandravir Narayan	Study on plant diversity in tropical deciduous forest of Bokaro District, Jharkhand, India	Guide	On-going
7.	Shruti Mishra	Study on diversity of leguminous and non-leguminous species in Jharia Coalfield, Jharkhand	Guide	Awarded
8.	Tripti	Study on pesticide tolerant bacteria and their phosphate solubilisation activity: An approach towards biofertilizer preparation	Co-guide	Awarded
9.	Lata Dora	Study of Phytoplankton Community as a Bioindicator of Water Pollution in Damodar River	Co-guide	On-going

### M.Tech Supervision

S.No.	Candidate	Title of the Research Thesis	Guide/Co-guide	Status
1.	Rahul Agrawal	Use of three step sequential extraction procedure(BCR) for micronutrient fractionation in agricultural soil around Jharia Coal Field, Jharkhand	Guide	On-going
2.	Gaurav Tanwar	Fractionation of micronutrients in the agriculture soil of Jharia, using Tessier Method	Guide	On-going
3.	Jhuma Sarkar	Use of three step sequential extraction procedure(BCR) for micronutrient fractionation in forest soil around Jharia Coal Field, Jharkhand	Guide	On-going
4.	Kriti Shukla	Study on Physico-chemical Characterization and phosphorus fractionation in agricultural soil of Sidhi district,	Guide	Completed
5.	Bijendra Kumar	Study on Physico-chemical Characterization and estimation of fluoride in agricultural soil of Sidhi district, M.P.	Guide	Completed
6.	Ashsih Kumar	The study on geochemistry of Govind Ballabh Pant Sagar, Singrauli, India	Guide	Completed
7.	M.K. Ghritlahre	Industrial and domestic effluent treatment and its reutilization	Guide	Completed
8.	SK Yadav	Study of plantation on Mine spoil In Northern Coalfield	Guide	Completed
9.	Manisha Rani	Impact of sedimentation on Eutrophication of Govind Ballabh Pant Sagar, Uttar Pradesh	Guide	Completed
10.	Singdha Pradhan	Effect of radiation on microbial activity and soil fertility in the Jharia Coal Field, Jharkhand	Guide	Completed
11.	Rajesh Chandra	Radiation survey of open cast coal mines: An implication in mine fire mitigation in Jharia Coal field, Jharkhand	Guide	Completed
12.	Ashvani Kumar	Assessment of soil quality and soil respiration of Dugdha Coal Washery of Jharia Coalfield	Guide	Completed
13.	Awinash Kumar	Assessment of soil quality and soil respiration of Patherdih Coal Washery of Jharia Coalfield	Guide	Completed

## **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), Feb 2002.
- Short term training programme on Mathematical Modeling of ground water flow and mass transport, theory and hand on training” SES, J.N.U., New Delhi, 2004.
- 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.

## **National Conference**

- 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, Organised by Indian Geological Congress and Wadia Institute of Himalayan Geology, Dehradun

## **International Conference**

- Second International Conference on Groundwater for Sustainable Development: Problems, Perspectives and Challenges, JNU, New Delhi, 2006.
- 1 st 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 N. I. 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.

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