

Brief Bio-data

1. Name: Dr. Nishant Kumar Srivastava

2. Date of Birth: 31.01.1964

3. Current Position and Address (Include Email ID and Contact Number)
Sr. Principal Scientist & Head, Project Planning and Industry Interface
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4. Educational qualifications: (Graduation and above)

Sl. No.	Degree	Year of Passing	University/Institute	Subject
1.	B.Sc.	1983	Gorakhpur University	Botany, Zoology, Chemistry
2.	M.Sc.	1985	Gorakhpur University	Botany
3.	Ph.D.	1990	Banaras Hindu University	Botany (Plant Ecology)

5. Work experience:

Designation	Institute/company	From	To	Nature of Work
Research Associate(CSIR)	Banaras Hindu University	01.01.1991	31.12.1995	R&D in the area of Eco-physiology
Research Scientist (DST)	Banaras Hindu University	01.04. 1996	30.09. 1997	Management of Riparian Ecosystem
Junior Scientist (Gr. IV-1)	Central Fuel Research Institute, Dhanbad	15.10.1997	14.10.2001	Bulk use of fly ash in agriculture sector
Scientist (Gr. IV-2)	Central Fuel Research Institute, Dhanbad	15.10.2001	14.10.2005	Ecological Restoration & Fly ash in agriculture and wasteland mgmt.
Senior Scientist (Gr. IV-3)	CSIR-Central Institute of Mining & Fuel Research, Dhanbad	15.10.2005	14.10.2010	Reclamation of waste degraded lands & Use of fly ash in agriculture and forestry sector
Principal Scientist (Gr. IV-4)	CSIR-Central Institute of Mining & Fuel Research, Dhanbad	15.10.2010	14.10.2015	Utilization of fly ash in agriculture and forestry sector
Sr. Principal Scientist (Gr. IV-5)	CSIR-Central Institute of Mining & Fuel Research, Dhanbad	15.10.2015	Continued	Monitoring of different types of projects, periodical evaluation, coordinating ISO-9001:2015 certification surveillance & int. audits

6. Work Area(s)/ Specialization: Management of Science & Technology

Monitoring of different types of project and their periodical evaluation, Coordination of ISO 9001:2015 Certification, surveillance & internal audits

7. Major contributions: (Max. 100 words):

- The demonstration of fly ash soil amendment technology has significantly contributed in the management of solid wastes (pond ash) from the TPPs and their gainful utilization for reclamation of barren/wasteland and soil quality improvement in the country and also approaching the targeted food production via increased crop yields.

- The studies made on 'Biochar application' are very significant in our country as the findings would help the reduction in toxicity levels of Indian fly ashes, if any, by the application of locally prepared biochar in suitable proportions. The process can be easily adopted by the farmers in an eco-friendly manner.
- Significant contribution in TPS mega coal project in terms of periodical monitoring, evaluation, invoice & challan preparation (ECF generation) and timely payment to the service provider.

8. No. of Research Publications:

- Papers in Journals: 25
- In conference proceedings: 65
- Invited lectures delivered: 10
- List of best 05 publications
 - Management of mine spoil for crop productivity with lignite fly ash and biological amendments, J Environ. Manage. 2006, 79, 173-187.
 - Rhizosphere soil microbial index of tree species in a coal mining ecosystem. Soil Biology & Biochemistry, 2009, 41, 1824-1832.
 - Role of selected riparian herbs in reducing soil erosion and nutrient loss under simulated rainfall. Environmental Earth Sciences, 2010, 61: 405-417.
 - Reclamation of overburden and lowland in coal mining area with fly ash and selective plantation: A sustainable ecological approach. Ecol. Eng., 2014, 71, 479-489.
 - Potentially toxic elements in lignite and its combustion residues from a power plant. Environ. Monit. Assess. 2015, 187, 1-14.
- Books/Chapters authored/edited: 01 Book (edited); 05 Chapters authored

9. List of 5 Major Contract R&D Projects:

- Role of Riparian vegetation in Ecosystem Recovery on fast deteriorating Riparian Wetland under Anthropogenic Stress.
- Bio-restoration of O.B. dumps through the plantation of selected efficient photosynthetic/soil conserver species in Eastern Jharia Coalfields.
- Bio-reclamation of low lying area filled with fly ash from Tata Steel's FBC power plant at Jamadoba and associated environmental studies
- Mitigation of GHGs and SPM in landfill/over burden dump areas of coalfields in the close vicinity of different TPPs through afforestation.
- Demonstration of bulk use of pond ash/fly ash from Koradi, Khaparkheda and Chandrapur TPSs of MSEB in the nearby Farmers' Fields.

10. (a) Name of Patents/Copyrights applied /granted/commercialized:

A process for the manufacture of fly ash –based soil conditioner cum fertilizer (Patent No: 230555; Application No. 211/DEL/2002; Journal date 2009-03-13).

(b) Technologies/Products /knowhow/Services developed:

Services provided for project planning, monitoring & evaluation and industrial liaisons.

11. Honors/Awards/Recognitions/Fellowships/Scholarships/Professional Memberships received:

- Society for International Tropical Ecology, Banaras Hindu University
- Academy of Environmental Biology, Lucknow
- Fellow, Int. Society for Ecological Communication, Binoba Bhave University

12. Societal Contributions

Organized various Kisan Gosthis/Farmers meets in the vicinity of different TPPs of the country for creating awareness amongst the local farmers about the beneficial uses of fly ash/pond ash in agro-forestry sectors.