CV: Dr. Supriya Pal

Name and Designation: Dr. Supriya Pal, Associate Professor
Organization: National Institute of Technology Durgapur, West Bengal, India.
Date of Birth: 07.04.1978 **Nationality:** Indian
Gender: Male
Communication Address: Dr. Supriya Pal, Associate Professor, Civil Engineering Department National Institute of Technology (NIT) Durgapur ,Mahatma Gandhi Avenue, Durgapur-713209, West Bengal, India.
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Educational Qualification (Doctoral to Bachelor):

- Ph.D. (Civil Engineering) Jadavpur University, Kolkata, West Bengal, India,2014
- M.C.E. (Soil Mechanics and Foundation Engg.) Jadavpur University, Kolkata, West Bengal, India,2002
- B.E. (Civil Engineering) North Bengal University, West Bengal, India,2000.

Professional Experience (last 5):

- 01 year 10 months (October01, 2002 to July 31, 2004) industry experience as Geotechnical Engineer in ATLAS ENGINEERS 'N' CONSTRUCTORS, Kolkata,India.
- 01 years 03 months (August12, 2004 to November 31, 2005) research experience as Research Assistant (Civil Engg.) in Central Water & Power Research Station, Ministry of Water Resources,Pune, Maharastra, India.
- 1years 02 months (December01, 2005 to January 19, 2007) experience as Assistant Environmental Engineer in West Bengal Pollution Control Board, Govt. of West Bengal, Kolkata, West Bengal, India.
- 11 years 07 months (January 22, 2007 to 15.10.2018) teaching experience as Assistant Professor in NIT Durgapur, West Bengal, India.
- 2 year 9 months (October 16, 2018 to till date) teaching experience as Associate Professor in Civil Engineerig Dept., NIT Durgapur, West Bengal, India.

Specialization and Expertise

- **Specialization** in Geotechnical and Geo-environmental Engineering

  Dr. Supriya Pal is presently working as Associate Professor in the Dept. of Civil Engineering, National Institute of Technology Durgapur, West Bengal, India. He is having a total teaching, research and industrial experience of more than 18 years in the field of Geotechnical and Geo-environmental engineering. He has a Ph.D in Civil Engineering from Jadavpur University, Kolkata, India and obtained Master of Civil Engineering from the same institution in the specialization of Geotechnical Engineering. Dr. Pal has a long-term working experience in the research areas: Geotechnical Engineering, Geo-environmental Engineering, Solute transport through porous media, Industrial wastewater treatment, Electro-kinetic treatment of contaminated land. Recently, he started research activities in the field of stability analysis of ash dykes, scientific study on open cast mine slope stability, metal extraction from fly ash. Dr. Pal has several national and international collaborations.

  He has research collaboration with Far Eastern Federal University, Russia (in metal extraction technology from fly ash); Tomsk Polytechnic University; Russia, Hohai University, East

China University and Technology, China; Federal university of Rio DeJanerio, Brazil; Institute for Water and Wastewater Technology, Durban University of Technology, South Africa (through BRICS NU Programme of Water Recourses and Pollution Treatment). Dr. Pal is working/completed as investigators of three research projects on "land subsidence study of CBM gas producing block" funded by M/s Essar Oil, India, "Environmental geochemistry and treatment of organic pollutants in aquatic systems in the selected areas of China, India and Russia" under BRICS BRICS STI Framework Programme, "Potential use of fine grained clay soil as landfill liner for containment of pollutants in waste disposal site" under RIG, MHRD. These projects are funded by Govt. of India MHRD, DST, and M/s Essar Oil, India. Dr.Pal has more than 30 publications in Peer Reviewed International and National SCI, Scopus and Web of Science indexed Journals. Moreover, he published 5 research articles as book chapters. Dr. Pal has numerous publications in the Proceedings of International / National Conferences, He delivered more than 25 invited talks in various conferences, seminars, workshop and technical meetings held in India and abroad.

Presently Dr. Pal is serving as the Coordinator and ITG (International Thematic Group) member of the BRICS Network University (NU) programme of NIT Durgapur in the thematic area of "Water Resources and Pollution Treatment". He is also acting as Member of National Coordination Committee (NCC) of BRICS Network University Programme under Dept. of Higher Education, MHRD, Govt. of India. He is also acting as coordinator of State Technical Agency (STA), Pradhan Mantri Gram Sadak Yojana (PMGSY), under the authority of the Ministry of Rural Development, Govt. of India.

Some of the important Paper publications (SCI and SCOPUS indexed) in Journals:

Title of paper	Author(s)	Name of the Journal	Vol. &Year
Application of HYDRUS 1D model for assessment of phenol-soil adsorption dynamics.	**Pal S,** Mukherjee SN, Ghosh S	Environmental Science and Pollution Research	21 , 2014
Estimation of the phenolic waste attenuation capacity of some fine grained soils with the help of ANN modeling	**Pal S,** Mukherjee SN, Ghosh S	Environmental Science and Pollution Research	21, 2014
Performance of a Clayey Soil used for Landfill Liner Material in a Tannery Sludge Disposal Site for Chromium Attenuation	Ghosh S, Mukherjee SN, **Pal S,** Mandal G	Journal of Hazardous, Toxic and Radioactive Waste, Americal Society of Civil Engineers (ASCE).	18, 2014, DOI. 10.1061/(ASCE)HZ. 2153-5515.0000231
Kinetic Data Analysis by MLR and ANN Models for Phenol Attenuation in Peat Soil	**Pal S,** Mukherjee SN, Ghosh S	International Journal of Geomechanics, ASCE	17, 2017
Attenuation of Phenol from Aqueous Solutions Using Fine-Grained Soils: Experimental Design Using a Statistical Approach	**S Pal**, S Rakshit, SN Mukherjee, S Ghosh	Journal of Hazardous, Toxic, and Radioactive Waste, ASCE	21 (3), 04017002

Performance Assessment of Amended Laterite Soil as Liner Material in Ash Pond Structures	Mazumdar SKD, Adhikary A, Pal S	Journal of the Indian Chemical Society	96 (2019)
Strength enhancement of lateritic soil through mechanical mixing with magnetite nanoparticles, starch solution, and calcite precipitating bacteria	Naskar J, Chowdhury S, Adhikary A, Pal S, Kazy SK	Arabian Journal of Geosciences	(2021) 14:1901

Research Projects/Sponsored project/Consultancy activities:

Sponsoring Agency	Title of the Project	Period	Amount (INR)	Status
Essar Oil Ltd. (E&P Division), WEBEL IT PARK, DURGAPUR-713208, WEST BENGAL, INDIA	Land subsidence study of cbm gas producing block.	TWO YEARS VIDE SANCTION LETTER NO. EOL/BM-RG(E)/NIT/2015/1889A1 DT. 17.12.2015	8.00 Lakhs	Completed
RIG, NIT Durgapur	Potential use of fine grained clay soil as landfill liner for containment of pollutants in waste disposal site.	2015-2018	20.0 Lakhs	Completed
DST-Govt. of India under BRICS STI Framework Programme	Environmental geochemistry and treatment of organic pollutants in aquatic systems in the selected areas of China, India and Russia	2018-2022	44.0 Lakhs	Ongoing
National Rural Roads Development Agency (Ministry of Rural Development, Govt. Of India)	Scrutiny of project proposals for the State of West Bengal under Pradhan Mantri Gram Sadak Yojana(PMGSY)	2013 to till date	9.00 Lakhs	Ongoing
Eastern Coalfields Limited., Salanpur Area	Scientific study of OC mines pit slope, dump slope stability and monitoring of slope at Bonjemehari, Dabor, Gourangdih Expn OCP, Mohanpur, Itapara at Raniganj coalfield area.	August, 2019, 04 months	80 Lakhs	Completed

Date: 07-01-2023 **Dr. Supriya Pal**

Place: NIT Durgapur