Ms PRIYANKA SINGH

OBJECTIVE

Highly motivated and accomplished Environmental Scientist with a strong background in environmental engineering, research, and standards formulation. Adept at analysing complex environmental challenges, developing innovative solutions, and implementing sustainable practices.

EDUCATION

- **Delhi Technological University, Delhi, India**
  Master of Engineering in Environmental Engineering (Gold Medallist)
  Aug 2017 – June 2019
- **Delhi Technological University, Delhi, India**
  Bachelor of Engineering in Environmental Engineering
  Aug 2012 – June 2016

EXPERIENCE

- **Bureau of Indian Standards at Present**
  25 Sep 2021 - Present
  I hold the position of Scientist at the Bureau of Indian Standards (BIS), which serves as the National Standards Body of India. In my role, I actively contribute to the development of standards. My specialization within BIS revolves around the fields of Drinking Water Supply, Wastewater and Stormwater Systems and Services, and Education Services. Additionally, I have the honor of being appointed as a committee member in the technical committee of the International Organization for Standardization (ISO).
  Throughout my tenure at BIS, I have undertaken diverse projects aimed at standardization on both national and international scales. Some notable subjects I have worked on include the establishment of efficient piped water supply management systems, the development of asset management frameworks, the formulation of disaster management protocols, and the enhancement of education management systems. Moreover, I have also contributed to the standardization of e-learning services, keeping up with the evolving trends in education. I have dedicated myself to ensuring that the standards in these sectors are robust, up-to-date, and aligned with the needs of the Indian populace.
  In summary, my role as a Scientist at BIS entails active involvement in the formulation of standards in various domains, both domestically and internationally, fostering the development of reliable and efficient systems and services.

- **Rajasthan State Pollution Control Board**
  27 May 2021 – 21 Sep 2021
  As a Junior Environmental Engineer, I played a crucial role in the evaluation and screening process for environmental clearances of industrial applications.
  In this capacity, my responsibilities centered around thoroughly assessing the environmental impact of proposed industrial projects. I worked closely with a team of experts to review the applications submitted by industries and analyze their potential effects on the environment and surrounding communities.
  During the screening process, I diligently examined factors such as air and water pollution, waste management, resource utilization, and ecological conservation. By conducting comprehensive environmental assessments, I ensured that the proposed projects adhered to environmental regulations and complied with standards.
  Additionally, I collaborated with stakeholders, including project managers, environmental consultants, and regulatory authorities, to gather relevant information and ensure the accuracy of the

evaluation process. I also actively participated in site visits and conducted field surveys to assess the on-ground impact of the proposed projects.

My role as a Junior Environmental Engineer required me to prepare detailed reports and recommendations based on my assessments. These reports were used by decision-makers to determine whether the proposed projects should be granted environmental clearances, with due consideration given to the potential environmental risks and mitigation measures proposed by the industries.

In summary, my work as a Junior Environmental Engineer involved meticulously screening and evaluating industrial applications for environmental clearances. By assessing their environmental impact and ensuring compliance with regulations, I played a vital role in promoting sustainable development and protecting the environment.

- **UEM India Pvt. Ltd. (Now Toshiba Water Solutions)**

  06 June 2016 – 30 April 2017

  During my time as a Graduate Engineer Trainee, I was entrusted with the responsibility of serving as a Process Design Engineer. In this role, my primary focus was on developing and designing effective effluent treatment plants specifically tailored for industrial use.

  My tasks revolved around the creation and implementation of comprehensive designs to treat and manage industrial effluents, ensuring compliance with environmental regulations and standards. This involved conducting detailed analyses of the effluent characteristics, assessing the specific requirements of the industries, and devising innovative solutions to address their unique challenges. Throughout this experience, I gained valuable expertise in designing efficient and sustainable effluent treatment systems, incorporating advanced technologies and methodologies. My goal was to optimize the treatment process, minimize environmental impact, and ensure the safe disposal or reuse of the treated effluent.

  As a Process Design Engineer, I actively collaborated with multidisciplinary teams, including environmental specialists, plant operators, and project managers, to ensure seamless integration of the effluent treatment plants into the overall industrial operations.

  In summary, my role as a Graduate Engineer Trainee involved the development and design of effluent treatment plants tailored for industrial use, emphasizing the application of innovative solutions to address environmental concerns while meeting industry-specific requirements.

PUBLICATIONS

- Haritash AK, Singh Priyanka and Taneja S (2022). Removal of Nutrients from Simulated Wastewater by *Canna*-based Wetland Mesocosms. Environ. We Int. J. Sci. Tech., 17:25-31.
- Singh P, Bagrania J and Haritash AK (2019). "Seasonal behaviour of thermal stratification and trophic status in a sub-tropical Palustrine water body", Applied Water Science., 9(139):1-6.
- Haritash AK, Mathur K, Singh P, Singh SK (2017). "Hydrochemical characterization and suitability assessment of groundwater in Baga–Calangute stretch of Goa, India", Environmental Earth Science, 76(341):1-10.
- Haritash AK, Singh P, Singh SK (2015). "Preliminary investigation of environmental status of Bhindawas bird sanctuary", International Journal of Engineering Research & Technology (IJERT), 4(3): 53-56.

AWARDS AND SCHOLARSHIP

- Honoured with **Gold medal** for academic excellence in postgraduation.
- Awarded with Research Excellence Award from Delhi Technological University.
- Secured All India Rank **17** under **Environmental Science and Engineering** subject of **GATE-2021**.

- Awarded with **Commonwealth Split-site Scholarship** to pursue one year study course on **Ecohydrology** in **University of Birmingham**.

SEMINAR/CONFERENCES

- Organized a Seminar on **Piped Drinking Water Supply Systems,** in May 2022.
- Organized a Webinar on **Management of Assets of Drinking Water Supply Systems**, in Nov 2022.
- Abstract accepted on "Phosphate dynamics in lake ecosystem" excepted in **European Geoscience Union 2020**.
- Volunteered 8th **International Groundwater Conference (IGWC-2019)** on Sustainable use of land and water, 2019 at IIT Roorkee, India.
- Volunteered 2nd International seminar on "Sustainable Technologies for Environment Management (STEM-2019)".
- Volunteered 1st International seminar on "Sustainable Technologies for Environment Management (STEM-2018)".
- Presented paper on "Reuse and Recycling of PET bottles in DTU Campus" at **National Conference on "Beating the Plastic Hazard: Challenge and Strategies".**
- Presented paper on "Constructed wetland as green a technology for wastewater treatment" at **National Convention of Environment Engineer & National seminar on "Environment Pollution & Climate Change".**

MEMBER

Representing Bureau of Indian standards in the subgroup on domestic sector under Bureau of Water Use Efficiency under National Water Mission. The objective of the subgroup is to develop report on strategies specific to domestic sector for increasing water use efficiency by 20%.

SKILLS

Environmental Research and Analysis
Standards Formulation and Compliance
Environmental Impact Assessment
Pollution Control and Waste Management
Water Supply and Wastewater Management
Sustainable Practices and Resource Conservation
Data Collection and Analysis
Technical Report Writing and Presentation

CONTACT DETAILS

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