



CEHESH TRUST OF INDIA

Acronym CEHESH stands for Climate, Earth, Health,
Environmental Sciences and Humanity

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Regd. Office: Amrut Bihar, Near Indian Public School, Jail Road,
Keonjhar -758 001, Odisha, India

E-mail: ceheshtrustofindia@gmail.com

<http://www.cehesh.in>



CEHESH TRUST OF INDIA YOUNG SCIENTIST AWARD FOR EXCELLENCE IN GEOTECHNOLOGY, 2025

In recognition of his outstanding contribution to the field of Geotechnology

The **CEHESH TRUST OF INDIA**, with profound admiration and solemn pride, takes great pleasure in celebrating the distinguished accomplishments of **Dr. Satya Prakash Sahu**. This citation is a tribute to his exemplary contributions to research and innovation in the field of geotechnology, mining environment, and sustainable mining practices.

Dr. Sahu has made notable scholarly contributions through rigorous **research on air quality assessment, dispersion of respirable particulate matter, mine subsidence, and risk assessment in coal mining systems**. His work has significantly advanced the scientific understanding of environmental impacts associated with mining operations and has developed empirical and statistical models for predicting particulate matter dispersion in the vicinity of opencast coal mines, thereby contributing to improved environmental management and protection of community health.

Through the application of multivariate statistical techniques, regression modelling, and data-driven approaches, Dr. Sahu has addressed critical challenges related to occupational exposure, mine safety, and environmental sustainability in mining regions. His research provides practical frameworks for monitoring air pollution, assessing risks in opencast transportation systems, and strengthening safety management practices in coal mining operations.

Dr. Sahu has an impressive record of scholarly publications in internationally reputed journals such as Science of the Total Environment, Journal of Cleaner Production, Atmospheric Pollution Research, and Chemosphere, along with numerous conference papers, book chapters, and technical contributions that have enriched the global body of knowledge in mining geotechnology and environmental science. His research has received wide academic recognition and has contributed to evidence-based decision-making for sustainable mining practices.

In recognition of his original research contributions, scientific excellence, and impactful work advancing geotechnology and environmental sustainability in the mining sector, the **CEHESH TRUST OF INDIA** proudly confers upon Dr. Satya Prakash Sahu the **Young Scientist Award for Excellence in Geotechnology-2025**.

Dr. B. Mishra,
Patron and Managing Trustee
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