

For Immediate Release: January 23, 2025

PRESS-RELEASE

IIT (ISM) Dhanbad Partners with Geological Survey of India for Pioneering Natural Hydrogen Exploration in Andaman and Nicobar Islands

The Indian Institute of Technology (Indian School of Mines) Dhanbad and the Geological Survey of India (GSI) have come together to embark on an innovative endeavor aimed at exploring natural hydrogen reserves in the Andaman and Nicobar Islands. This groundbreaking partnership was formalized in an official Memorandum of Understanding (MoU) signed today at the GSI office in Kolkata.

The collaborative effort will be led by the Subsurface Energy and Storage Systems Lab, in conjunction with the Exploration Seismic and Simulation Lab, both under the Department of Applied Geophysics at IIT (ISM) Dhanbad. This initiative marks a significant advancement in hydrogen exploration technology and sustainable energy solutions in India.

Natural hydrogen, which is increasingly being recognized as a clean energy source, has the potential to significantly contribute to India's renewable energy landscape. The exploration studies will focus on locating and understanding the geological formations that could host natural hydrogen reservoirs within the Andaman and Nicobar Islands.

By leveraging advanced geophysical techniques and comprehensive sub-surface analysis, the research project aims to establish a robust framework for evaluating the feasibility of harnessing this renewable resource. The collaboration intends to bring together academic expertise, cutting-edge technology, and GSI's extensive geological insights to innovate solutions in the field of subsurface energy storage.

This collaboration with the Geological Survey of India is a remarkable opportunity to explore new frontiers in energy. Natural hydrogen represents a sustainable energy source, and our research has the potential to support broader energy needs and contribute to climate goals."

Rajni Singh

Dean (Corporate Communications)