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PRESS RELEASE

IIT (ISM) Dhanbad Inaugurates State-of-the-Art Continuously Operating Reference Station (CORS) and Regional Center for Geodesy (RCG)

Indian Institute of Technology (Indian School of Mines), Dhanbad, proudly inaugurated its newly established Continuously Operating Reference Station (CORS) and Regional Center for Geodesy (RCG) — a groundbreaking initiative aimed at enhancing geospatial accuracy and supporting advanced surveying, mapping, and scientific research across the region and beyond.

The inauguration ceremony was graced by Prof. Sukumar Mishra, Director, IIT (ISM), who served as the Chief Guest. In his inaugural address, Prof. Mishra emphasized the strategic significance of such infrastructure in strengthening the national capability in precision geodetic applications.

Joining the momentous occasion were esteemed dignitaries including Prof. Dheeraj Kumar, Deputy Director and Advisor of the RCG; Shri Prabodh Pandey, Registrar, IIT (ISM); Prof. Sagar Pal, Dean (R&D); Prof. Devi Prasad Mishra, HoD, Mining Engineering; Prof. Srinivas Pasulpuleti, HoD, Civil Engineering; Prof. Subhashish Chatterjee, and several other distinguished faculty members.

Prof. Vansant Govind Villuri, Coordinator of the Regional Center for Geodesy highlighted the broader impact of the initiative and said "The establishment of this CORS will significantly enhance the national geodetic infrastructure by offering real-time, high-precision GNSS data. It will benefit a wide spectrum of users in the fields of surveying, engineering, navigation, and geosciences."

The CORS data is set to revolutionize multiple scientific domains including upper atmospheric studies, meteorology and weather forecasting, tectonic and plate motion studies, seismology, and hydrology. By providing a common reference framework, the CORS network will improve coherence in geospatial data generated by various stakeholders and lead to increased productivity and efficiency across industries.

The CORS infrastructure comprises a network of permanently installed GNSS receivers that continuously stream raw satellite data to a central server. This data is archived, processed, and made accessible through open, non-proprietary web standards — ensuring 24/7 availability throughout the year.

With this initiative, IIT (ISM) Dhanbad takes a significant leap forward in advancing geospatial science and technology, contributing to both regional development and national scientific objectives.

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