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Press Release

Two-day national workshop titled “Green Steel Production via Decarbonization for Sustainable and Circular Economy (GSP2024)” at 16th-17th December 2024 at IIT (ISM) Dhanbad.

The Department of Chemistry & Chemical Biology (CCB) at the Indian Institute of Technology (ISM) Dhanbad organized the two-day national workshop titled “Green Steel Production via Decarbonization for Sustainable and Circular Economy (GSP2024)” on 16th-17th December 2024 at Golden Jubilee Lecture Theatre of the Institute.

This landmark event was convened by Prof. Madhulika Gupta of Department of CCB and co-convened by Prof. Ejaz Ahmad from Department of Chemical engineering, drawing participation from esteemed academicians, industry leaders, and policymakers.

The workshop commenced with a warm welcome and an insightful introduction to its objectives by Prof. Parthasarathi Das, Head of the Department of Chemistry & Chemical Biology.

Prof. Prem Vrat, Chairman of the Board of Governors, IIT (ISM) Dhanbad, graced the inaugural session of GSP2024 as the Chief Guest. The event was also graced by Prof. Sukumar Mishra, Director, IIT (ISM) Dhanbad; Prof. A.K. Mishra, Director, CSIR-CIMFR Dhanbad; and Prof. V. M. S. R. Murthy, Director, IEST Shibpur as Guests of Honor.

The workshop also benefited from the expertise of Dr. Swetavalli Raghavan, Head of Innovation, Strategy, and Government Affairs, Royal Society of Chemistry, whose presence enriched the discussions.

This prestigious event brought together around 180 industry leaders, researchers, policymakers, and academicians to deliberate on the future of sustainable steel manufacturing and its critical role in addressing global climate challenges.

The workshop was generously funded by the Department of Scientific and Industrial Research (DSIR), Anusandhan National Research Foundation (ANRF), Jharkhand Council on Science, Technology and Innovation (JCSTI), Council of Scientific and Industrial Research (CSIR), and Indian National Young Academy of Sciences (IN-YAS). American Chemical Society (ACS) Publication, Royal Society of Chemistry sponsored the oral and poster prizes.

The workshop highlighted the urgent need for transitioning to green steel production, emphasizing decarbonization technologies and circular economy practices. Participants engaged in robust discussions on innovative solutions, including hydrogen-based steelmaking, carbon capture and storage (CCS), enhanced recycling strategies to reduce the environmental impact of steel production, and scrap utilization. The workshop served as a pivotal platform for discussing the future of green steel production and its role in combating climate change.

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