



## CSIR-Central Building Research Institute Roorkee (Uttarakhand)

**Visit of School Students at CSIR- CBRI**  
**22<sup>nd</sup> January, 2025**

On **January 22<sup>nd</sup>, 2025** the **CSIR-Central Building Research Institute (CBRI), Roorkee**, hosted a Scientist and Student Interaction Program under the Jigyasa 2.0 initiative. The event, centered on the theme “Waste to Wealth” as well as on “Janjatiya Gaurav Varsh” with the active participation by total 220 students accompanied by their 6 faculty members from PM Shree KV, Raiwala, Uttarakhand. This program primarily aimed to ignite curiosity and foster innovation by connecting accomplished scientists with enthusiastic students, providing a unique platform for insightful discussions, knowledge exchange, and motivation to explore the frontiers of science by offering a deeper insight into CSIR-CBRI’s advance expertise in Building Science and Technology.



The students and their faculty members were welcomed by Sh. Nadeem Ahmed, Chief Scientist along with Dr. Hemlata, Senior Scientist at the Rabindranath Tagore Auditorium. Sh. Nadeem Ahmad, briefed about the Jigyasa 2.0 Program with motivational opening remarks. He gave a thorough overview of the history of CSIR-CBRI, highlighting its founding, goals, and mission as well as its contribution to the advancement of science and technology for the benefit of the country. He explained about the various R&D divisions of the CSIR-CBRI including Advanced Concrete, Steel & Composites, Architecture, Planning & Energy Efficiency, Building Materials & Environmental Sustainability, Fire Safety Engineering and others. He also highlighted about R&D supportive Outreach and dissemination group activities. He emphasized the essential requirements for the foundation of societal development, enabling innovation in agriculture, textiles, and sustainable housing. By prioritizing these areas, society creates a stable platform for further scientific innovations. He provided insights into the Outreach and Dissemination Group of CBRI, detailing its key objectives, the initiatives under the Jigyasa 2.0 program, and its significant contributions in guiding students toward career opportunities in science and research.



Then the program continued with a thought-provoking lecture by Dr. Soumitra Maiti, Principal Scientist on the “Waste to wealth” theme. He discussed about the topic of natural resource depletion and emphasized the necessity for alternate approaches for reducing its effects. This strategy encourages resource conservation and environmental responsibility, which is consistent with sustainable development. The importance of efficient waste management techniques, especially for the management of solid waste, was the main point of concern.

Following the session, Dr. Tabish Alam gave a second lecture on "Janjatiya Gaurav Varsh," explaining its purpose, significance, and how it celebrates the achievements of tribal heroes, particularly Birsa Munda, and his contributions to civilization. He explained Birsa Munda's roles as a freedom fighter and gave a historical overview of the struggle against British rule. The main focus of the celebration was Janjatiya Gaurav Divas, which honors the history, strong resistance to exploitation, support for women's rights, and contribution to socio-religious transformations of tribal fighters Birsa Munda.

Additionally, the event showcased other noteworthy tribal figures who broke down social boundaries and cleared the path for their tribe's recognition and well-being. Notable figures included Smt. Droupadi Murmu, the President of India, and former Chief Minister of Jharkhand and many more.



The discussion focused on the government's commitment to uplift tribal communities through many initiatives aimed at sustainable development and cultural preservation.



Key highlights included honoring tribal heritage by establishing dedicated museums and fostering practices that safeguard traditional customs. Special attention was given to the invaluable role of tribal knowledge in areas like natural medicine and holistic health, highlighting their contributions to societal progress.

A questionnaire session was then held, which resulted in a lively and captivating conversation. Sh. Nadeem Ahmad inspired students to make wise choices and follow the correct course in life by actively motivating them.

Thereafter, the students and faculty members were introduced to Institute's legacy and pioneering work through a visit of the CSIR-CBRI Exhibition Gallery. The visit was led by Dr. Hemlata, Dr. Tabish Alam and Dr. Naveen Nishant, who emphasized a comprehensive overview of the Institute's advanced technologies and major initiatives. Noteworthy among these, there were the construction of the Ram Mandir, a significant architectural achievement along with the illustration of special Surye-tilak concept and the successful controlled demolition of the Supertech Twin Towers by Zig-Zag technology of Draft kiln to potentially support the Carbon sequestration by minimizing environmental impacts. Other Notable projects like Fire resistant panels and waste utilization in buildings, Zero Peak Energy Building Design, Confined Masonry: Earthquake Resistant Building, HVAC Test Bed Facility for testing Covid-19 disinfectant technologies, Energy Efficient Rural Housing, Test on Beam-Column Specimens and Structural & foundational design were thoroughly showcased and emphasized.



The event concluded on a positive note, students and faculties expressed their appreciation for the knowledge and insights gained. In appreciation of CSIR-CBRI's efforts to fill the gap between scientific research and its real-world applications, both students and their faculty members praised the institute for planning such an instructive and significant event.