



CSIR-Central Building Research Institute Roorkee (Uttarakhand)

Visit of School Students at CSIR- CBRI

18th December, 2024

On December 18, 2024, the Institute successfully hosted an enriching educational visit as part of the Jigyasa 2.0 initiative. This event aimed to spark scientific curiosity and provide students with an insight into the latest research and innovations in building science and technology. Students and teachers from participating school were graciously received by the Institute.



The visit aimed to showcase the ongoing R&D work at the institute and to mark the beginning of the Janjatiya Gaurav Varsh 2024-25 celebrations. The year 2025 has been declared as Janjatiya Gaurav Varsh, to commemorate 150th birth anniversary of Birsa Munda by Government of India. This Varsh seeks to celebrate and preserve the invaluable legacy of India's tribal communities while fostering greater understanding and respect for their way of life.

A Total of 210 Students and 15 faculty members from PM SHREE KV Muradnagar actively participated in the event. Dr. Tabish Alam, Senior Scientist cordially greeted the

students and teachers along with other Senior Scientists Dr. Chandan Swaroop Meena and Dr. Hemlata.

The event featured an interactive session between scientists and students, promoting curiosity and engagement with scientific developments. The students were introduced to the institute's prestigious Ctesiphon Exhibition Gallery, which displayed cutting-edge research and innovations, showcasing the progress made by CSIR-CBRI from its inception to date. Key highlights included innovative fire-resistant panels, advanced technologies in pile foundation, and structural design adaptations tailored to regional requirements. The gallery also presented CBRI's remarkable journey from its inception to its current achievements, sparking excitement and motivation among the students. The Institute (CBRI) has played a pivotal role in the structural and foundational designs of the Pradhan Mantri Gramin Awas Yojana (PMAY-G), leveraging scientific innovations to ensure cost-effectiveness, sustainability, and improved ventilation.



Furthermore, during the COVID-19 pandemic, CBRI contributed significantly to public health efforts by developing advanced air purification technology capable of trapping air momentarily, neutralizing viruses, and delivering cleaner, safer air. The gallery also presented CBRI's remarkable journey from its inception to its current achievements, sparking excitement and motivation among the students.

These projects sparked great interest among the students, and they were eager to learn more about the technologies and innovations presented. A vibrant and continuous

student-scientist interaction took place throughout the event, allowing students to ask questions and engage with the Scientists.

The event began with a heartfelt inaugural address by Dr. Hemlata, Senior Scientist, who expressed gratitude to the Pro. Pradeep Kumar, Director for his guidance and extended an invitation for his address. The Director extended a warm welcome to the students and teachers, sharing insights about the Jigyasa 2.0 program. He articulated his vision for **“Vikshit Bharat ka Apna Sapna 2047”** and encouraged students to pursue excellence in their areas of interest. He also emphasized the importance of originality, advising students to avoid copying assignments, as it stifles creativity.

Dr. Tabish Alam, Senior Scientist delivered a comprehensive presentation on CSIR-CBRI's journey, emphasizing its establishment, vision, mission, and its role in advancing science and technology for national pride. He highlighted both R&D and non-R&D specializations across divisions like Advanced Concrete, Steel & Composites, Architecture, Planning & Energy Efficiency, and Building Materials & Environmental Sustainability .



Notable contributions included structural design for the Ram Mandir, the successful demolition of the Supertech Twin Towers, and preservation efforts for heritage landmarks like the Taj Mahal and Qutub Minar and Joshi Math. CBRI's significant

contributions to the CSMT (Chhatrapati Shivaji Maharaj Terminus) in Mumbai have been instrumental in its development and preservation. The emphasis was on creating accessible, economical, and environmentally sustainable technologies.

Further, Dr. Tabish Alam elaborated on the significance of Janjatiya Gaurav Varsh 2024-25, its objectives, and its role in honouring the contributions of tribal heroes like Birsa Munda. Janjatiya Gaurav Varsh seeks to celebrate and preserve the invaluable legacy of India's tribal communities while fostering greater understanding and respect for their way of life.

He encouraged students to recognize the freedom fighters as the true heroes of India. He further provided a brief historical overview of the struggles against British rule, highlighting how the tribal communities valiantly resisted oppression and made significant contributions to India's fight for freedom.



A key highlight of this observance is Janjatiya Gaurav Divas, which commemorates tribal heroes like Birsa Munda, celebrating their legacy and relentless efforts against exploitation, their advocacy for women's rights, and their contribution to socio-religious reforms. The event also highlighted other notable tribal personalities who broke societal barriers and paved the way for the welfare and recognition of their communities. Among Notable personalities were President of India, Smt. Draupdi Murmu , Sh. Arjun Munda former Chief minister of Jharkhand and many more.

Government initiatives for tribal welfare were also discussed, emphasizing ongoing efforts to preserve tribal traditions, promote sustainable development, and establish tribal museums to showcase their culture and contributions. Additionally, the significance of tribal contributions, including traditional medicines and holistic health practices, was also counted. Afterwards, a questionnaires session was conducted, leading to a vibrant and engaging discussion.

The program was enriched by the active participation of Dr. Tabish Alam, Dr. Hemlata Dr. Chandan Swaroop Meena, and Staff members of ODSO. The seamless coordination of the event was expertly handled by Dr. Tabish Alam ensuring its smooth execution and success. At the event's conclusion, students and faculty expressed gratitude to CSIR-CBRI for providing an inspiring learning experience. The showcase of innovations in building science and sustainable technology motivated attendees to critically consider their role in shaping a progressive, sustainable future.