Outreach & Dissemination Services Office
CSIR – Central Building Research Institute
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Chauksey Engineering College, Bilaspur and COER University, Roorkee Gain Hands-On Technical Exposure

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A one-day educational visit was successfully organized at CSIR–Central Building Research Institute (CBRI), Roorkee, for students and faculty members from Chauksey Engineering College, Bilaspur and COER University, Roorkee. The visiting group comprised 31 students accompanied by 2 faculty members from Chauksey Engineering College and 40 students along with 2 faculty members from COER University. The visit was meticulously coordinated by Dr. Neeraj Jain, Head, ODS, who ensured the effective planning and smooth execution of all activities throughout the day. The primary objective of organizing this educational visit was to provide students with an opportunity to gain first-hand exposure to cutting-edge research, advanced technologies, and practical applications in the domain of building science and engineering. It aimed to bridge the gap between theoretical classroom learning and real-world industrial and research practices, thereby enhancing students' academic understanding and professional outlook.

The visit commenced with a warm welcome and an introductory session at Dr. Billing's Exhibition Gallery. In this session, students were acquainted with the rich legacy, achievements, and contributions of CBRI in the field of construction technology, disaster mitigation, structural engineering, and sustainable infrastructure. The gallery showcased various models, prototypes, and research outcomes that highlighted the institute's pioneering role in addressing national challenges related to housing, safety, and environmental sustainability. This initial interaction provided students with a comprehensive overview of how scientific research is translated into practical solutions for societal benefit. Following the introductory session, the participants were taken on a guided tour of several advanced research and development facilities within the institute. One of the key highlights was the visit to the **NEETF Laboratory**, where students were introduced to advanced testing techniques and experimental procedures used in evaluating building materials and structural components. The exposure to real-time experiments and sophisticated equipment significantly enhanced their understanding of material behaviour and testing standards. The visit to the **Fire Safety Engineering Laboratory** proved to be particularly insightful, as students learned about fire dynamics, safety measures, fire-resistant materials, and evacuation strategies. Another major attraction of the visit was the **3D Printing Laboratory**, where students witnessed the application of additive manufacturing technology in the construction sector. They gained knowledge about how 3D printing is revolutionizing building practices by enabling faster construction, reduced material wastage, and innovative design possibilities. This exposure inspired students to think about future-oriented technologies and their potential impact on the construction industry. The group also visited the **Rural Technology Park**, which showcased cost-effective, sustainable, and eco-friendly construction techniques suitable for rural and semi-urban areas. Students observed various models and live demonstrations of low-cost housing technologies, alternative building materials, and energy-efficient solutions. This segment of the visit highlighted the importance of inclusive development and the role of engineering in improving the quality of life in rural communities. Throughout the visit, students actively interacted with scientists and technical experts, asking questions and clarifying their doubts. This interactive engagement fostered curiosity, critical thinking, and a deeper

appreciation for research-based learning. The exposure to interdisciplinary research activities also broadened their perspective regarding career opportunities in research and development. The Director of CSIR–Central Building Research Institute appreciated the keen interest, enthusiasm, and active participation shown by the students. He emphasized that such educational visits play a vital role in motivating young minds to pursue innovation, research, and technological advancement, which are essential for national development. In conclusion, the educational visit to CBRI, Roorkee proved to be highly informative, enriching, and inspiring for all participants. It provided valuable insights into advanced research methodologies, modern construction technologies, and real-world engineering applications. The visit not only strengthened students' academic knowledge but also encouraged them to explore new ideas, develop innovative thinking, and consider research-oriented career paths in the future.