

CSIR-Central Building Research Institute Roorkee (Uttarakhand) Student-Scientist Interaction CBRI's Visit at PM Shri Kendra Vidyalaya 27th September, 2025

In pursuit of promoting scientific awareness and experiential learning among school students, the **CSIR–Central Building Research Institute (CBRI), Roorkee** organized an **educational exposure visit** under the **CSIR–Jigyasa 2.0 initiative** on **27th October 2025**. The program welcomed **120 students (60 girls and 60 boys)** and **6 faculty members (3 males and 3 females)** from **PM Shri Kendriya Vidyalaya, ITBP, Dehradun**, with the objective of inspiring scientific curiosity and providing hands-on learning experiences in the field of building science and technology.



The visit began with an orientation and guided tour of **Dr. Billing's Exhibition Gallery**, where participants explored **CBRI's pioneering research innovations and technological demonstrations**. Key highlights included the **Shri Ram Mandir model with the Surya Tilak mechanism**, exemplifying engineering precision; the **High Draught Zig-Zag Brick Kiln Technology**, promoting energy-efficient and environment-friendly brick manufacturing; and **disaster-resilient construction systems**, which reflect sustainable and safe building practices developed by the Institute.



An **interactive session** was then organized at the **R.N.T. Auditorium**, which commenced with a **welcome address by Dr. Neeraj Jain**, Senior Principal Scientist & Nodal Officer (Jigyasa 2.0), and **Dr. S.K. Panigrahi**, Chief Scientist. In their remarks, they emphasized the importance of cultivating scientific thinking and experiential learning among students to encourage innovation-driven education. The academic session featured **expert lectures** by CBRI scientists. **Dr. Tabish Alam**, Senior Scientist, delivered a talk on “*Utilisation of Solar Energy in Houses*”, highlighting solar architecture, renewable energy technologies, and sustainable living practices. **Dr. Hemlata**, Senior Scientist, presented on “*Waste Plastic Composites as Building Components*”, showcasing research initiatives on recycling plastic waste into durable and eco-friendly construction materials that contribute to sustainable infrastructure development. Following the interactive lectures, the students visited various **research and testing facilities** of CBRI, including the **Rural Technology Park**, **Fire Safety Engineering Laboratory**, and the **Structural Engineering Division (3D Printing Facility)**. These visits provided real-time exposure to scientific experimentation, engineering models, and innovative applications in building materials, safety, and sustainable construction. The program concluded with an open interaction session, where students enthusiastically shared their learning experiences and engaged with scientists on topics related to research and innovation. Overall, the event proved to be an **enriching and inspiring learning experience**, bridging the gap between classroom education and real-world science. It reinforced **CSIR–CBRI’s commitment** to fostering scientific temper among young learners and encouraging them to explore careers in science, engineering, and technology through the **CSIR–Jigyasa 2.0** initiative.

