



**Skill Development Cell**  
**Outreach & Dissemination Services Office**  
**CSIR – Central Building Research Institute**  
**Roorkee – 247667 (UK)**



**Skill Development Training Programme on**  
**‘Behaviour and Control Measures of Landslides’**  
for the *Working Professionals of Tata Steel Limited* during Jan 29-31, 2024

Three days’ Skill Development Training Programme on *‘Behaviour and Control Measures of Landslides’* was organized under the aegis of CSIR Integrated Skill Initiative during *January 29-31, 2024* sponsored by *Tata Steel Limited*. This comprehensive training programme was aimed to familiarize the working professionals on latest knowledge & state of the art practices being used for effective landslide mitigation by addressing the types, causes and effects of landslides, Landslide Vulnerability, Hazard & Risk Assessment, Geophysical & Geotechnical Investigations of Slopes, Analysis Methods of Rock & Soil Slopes, Instrumentation and Monitoring of slopes, Control Measures for Rock & Soil Slopes, Rockfall Mitigation System, Quality Control and Case studies of remedial measures etc. This training programme was attended by 24 working professionals of *Tata Steel Limited*.

The training programme was inaugurated by *Prof R. Pradeep Kumar*, Director CSIR-CBRI, in the presence of *Ar. S.K. Negi, Dr. R. Dharmaraju, Dr. D.P. Kanungo* and *Ms. Kumud Lata Singh*, Head (Planning & Infrastructure), Tata Steel Ltd. In his inaugural address, *Director CSIR-CBRI* has emphasized on the R&D groups of CSIR-CBRI and highlighted the achievements of the institute in serving the society & nation. He expressed his gratitude towards Tata Steel for the Collaboration and MoU for future course of work. He also underlined the Institute’s contribution in eradicating landslide disasters for the past three decades and urged the participating engineers to learn effectively for better end-to-end knowledge sharing. Initially, *Er. Ashish Pippal*, Sr. Scientist welcomed the participants and other colleagues and briefed about conducting several training programs in collaboration with Tata Steel on various building science related topics. Subsequently, *Ar. S.K. Negi*, Chief Scientist and course coordinator stated the importance of this training programme in various field level projects by adopting the latest tool and techniques. Later, *Dr. R. Dharmaraju* elaborated the training activities being held at this institute under national skill mission and provided the brief overview of the immense work done under BPGY and PMAY-G, Odisha in constructing more than 10 lakh houses across the state. During inaugural, several scientist & other staff members namely Dr. Ajay Chourasia, Dr. S. R. Karade, Dr. Pradeep Chauhan, Dr. Anindya Pain, Er. Koushik Pandit, Dr. Ganesh Kumar, Dr. Kishore Kulkarni, Ms. Veena, Er. Saksham Bhardwaj, Er. Abhinav Tyagi etc. were also present.

During the programme, 13 technical interactive sessions were delivered by the scientists of CSIR-CBRI to brief up the participants on the recent development and advance technologies on different aspects of behaviour and control measures of landslides. In addition, participants have also witnessed the *Institute's R&D facilities, live demonstration on shake table and debris slope Modelling etc* for enhanced understanding of landslide behavior. Later, assessment of the participants was done through MCQ based written examination. At the end, participants have also expressed their feedback towards training programme and quoted its relevance to their professional commitments. Finally, the programme was concluded with the distribution of certificates and other relevant materials of the course content.

### **List of Participants**

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### **Glimpses of the Training Programme**



*Inaugural Ceremony*



*Group Photograph*



*View of Participants*



*Technical Sessions*



*Visit to R&D Laboratories & Testing Facilities*



*Valediction & Certificate Distribution*