



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



Advance Training Programme on
‘Repair & Retrofitting of Buildings’ for the Engineers of Himachal Pradesh
July 10-14, 2023

Five days Advance Training Programme on **‘Repair & Retrofitting of Buildings’** was organized under the aegis of CSIR Integrated Skill Initiative during July 10-14, 2023 sponsored by *Himachal Pradesh Council for Science, Technology & Environment, Himachal Pradesh (HIMCOSTE)*. The training programme was aimed at familiarizing the participants on latest knowledge & skills using innovative tools & advance techniques in the area of repair & retrofitting of buildings through assessment of Building Bye Laws & Seismic Vulnerability, Damage Assessment, Designing & Planning of Retrofitting Measures, Repair & Retrofitting of Low Cost Construction/Traditional Construction & Land Connectivity in Hilly Regions, Detailing & Case Studies, Vernacular Construction Assessment, Repair of Building Services, Estimation & DPR Preparation, Non-Destructive Testing & Green Retrofitting, Understanding and Assessment of Corrosion & Techno-legal Regime of Building Construction etc. The training programme was attended by 33 Engineers of Himachal Pradesh Government.

The event was inaugurated by **Dr. S.S. Randhawa**, Principal Scientific Officer, HIMCOSTE, Himachal Pradesh and training Coordinator’s **Ar. S.K. Negi, Dr. Ajay Chourasia & Skill Coordinator Mr. Nadeem Ahmad** in the active guidance of Dr. R. Dharmaraju, Nodal Skill, CSIR-ISI. Initially, Dr. Nagesh Balam, Principal Scientist & Er. Ashish Pippal, Sr. Scientist welcomed the participants and other colleagues and briefed about the five days’ activities of the training programme. Subsequently, Ar. S.K. Negi emphasized on the importance of this training programme for better learning of the latest knowledge related to efficient building construction in the Himalayan terrain like Himachal Pradesh. During the inaugural session, several scientists & technical staff namely Dr. Chandan S. Meena, Dr. Kishor Kulkarni, Dr. Anup Kumar Prasad, Dr. Veena Chouhary, Ar. Naveen Nishant, Er. I.A. Siddiqui, Er. Abhinav Tyagi, Er. Saksham Bhardwaj & Er. Shivam Tyagi etc. were also present.

During the programme 15 lectures were presentations were made by CSIR-CBRI scientists on different topics as per the schedule of the programme. The participants have been made to understand the advance tools & techniques on repair & retrofitting of buildings through technical presentation, hands on practice & demonstrations during the training programme. In addition,

participants have also witnessed the CBRI R&D facilities, Demonstration of NDT Instruments, and hands on practice related to Damage assessment & Retrofitting measures. At the end, participants have also given their feedback and expressed the usefulness of the present skill training to their professional career. The training was thus concluded with the distribution of certificates and other relevant training materials.

List of Participants

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Glimpses of the Training Programme



Inaugural Ceremony



Group of Participats



View of Participants



Practical Demonstration