

## **CSIR-Central Building Research Institute, Roorkee (UK)**

### **Training programme on ‘Construction of Affordable Housing’ held on May 13, 2016 at Mysore**

CSIR-CBRI has conducted a one day training programme on ‘Construction of Affordable Housing’ on May 13, 2016 at Mysore in association with Mysore Nirmithi Kendra for Junior Engineers, Supervisors and Masons. The training programme aims to create awareness on planning and designing, construction techniques and quality control, innovative building materials and low cost sanitation systems and affordable housing/building construction practices to the field level machineries. The programme was attended by more than 150 participants covering all over Karnataka state. Sri. M.T. Manjunath, Project Director of Mysore Nirmithi Kendra welcomed the dignitaries of the programme and subsequently, the training was inaugurated through lighting the lamp by the Chief Guest of the programme Smt. C. Shika, IAS, Deputy Commissioner of Mysore; the Guest Dr. C.G. Betsurmamath, Commissioner of Mysore City Corporation (MCC); Er Y. Pandey and Dr. B. Singh of CSIR-CBRI.



Later Er Y. Pandey said that the institute has been providing new technologies to central government sponsored programme for construction of affordable houses at low cost and the awareness of the same has been planned to provide across the country for the construction of safe and affordable houses. Speaking on the occasion, MCC Commissioner Dr. C.G. Betsurmamath said that the MCC under the Housing for all schemes had planned to construction a total 2,700 houses with the approval of the council and added Rs.15,000 was being spent on construction of a toilet. He sought the help of CSIR-CBRI in bringing down the expenditure with the help of new

technologies to construct good quality toilets. Smt. C. Shika during her inaugural speech, she stated that the BPL families were being provided with individual houses at rural areas and apartments in urban areas, she urges CSIR-CBRI to provide the district administration with new technologies to construct good quality houses at affordable areas. She also mentioned that the tribals in forest areas were being provided housing facilities using bamboo technology which was implemented by Nirmithi Kendra. Lastly, Dr. R. Dharmaraju, Coordinator from CSIR-CBRI proposed the vote of thanks.



About six technical sessions have been planned in the training programme, in the first session a short film on Role of CSIR-CBRI in Building Construction Technology was shown by **Dr. R. Dharmaraju**, Sr Principal Scientist to the participants and provide the clarifications for questions raised by the participants. In the second session **Ar. S.K. Negi**, Sr Principal Scientist interacted with participants regarding the Planning and Designing of affordable housing. And also, he has discussed the effectiveness and benefits of the CBRI building technologies in safe construction and cost reduction.

Subsequently, the session on Cost Effective Building Materials and Construction Techniques were taken by **Dr. B. Singh**, Chief Scientist in which to the use of local materials as alternate wood substitute for the production of composite from natural fibers, door shutters, jute frames, roofing sheets and composite shuttering plates etc. Further, he has interacted on the innovative technologies developed by the institute for use of industrial/demolition waste for the production of different types of bricks such as fly-ash bricks, clay fly-ash bricks etc for the sustainable development.

**Er. H.K. Jain**, Principal Technical Officer (Rtd) has discussed with participants on the issues related to quality in construction, maintenance and repair of buildings. He has mainly apprised the participants about the inspection and maintenance, repair and rehabilitation methods, repair of cracks and use of fiber reinforced polymer composite in rehabilitation and retrofitting of buildings to enhance the safety. And also, low cost sanitation system developed by the institute has been discussed with participants in detail. Apart from this, the participants have also visited the CSIR-CBRI technologies displayed through charts and products at the venue.

Later, the training programme was concluded after obtaining feedback from the participants. They expressed that such kind of training programme would enable us in updating the scientific knowledge, adaptation of building technologies at grass root level with technical support of CSIR-CBRI scientific community.

And also, CSIR-CBRI scientific team has visited Mysore Nirmithi Kendra that they have developed and adopted several new technologies such as concrete blocks, low cast sanitation systems, concrete windows & door frames, bench for schools, steel frames etc in their projects, low cost houses constructed under Jawaharlal Nehru National Urban Renewal Mission (**JnNURM**) for the people shifted from slum areas and Vivekananda Girijan Kalyan Kendra (VGKK) where typical low cost CSIR-CBRI technologies have widely been adopted.