

TRAINING COURSE ON HOUSING FOR ALL – INNOVATIVE TECHNOLOGY FOR AFFORDABLE HOUSING

October 14-16, 2015



CSIR – CENTRAL BUILDING RESEARCH INSTITUTE



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**Training Course on
Housing for All - Innovative Technology for Affordable Housing
(October 14-16, 2015)**

Context:

‘Housing for All’ is one of the priority areas with particular emphasis on the needs of the vulnerable groups as per the national agenda of governance in the country. The construction of affordable housing using innovative technologies is one of the most appropriate planning in the country to provide safe housing. This demands proper planning, design, construction methods, use of innovative materials and trained manpower. CSIR-CBRI is one of the leading institutions in the country which developed innovative technologies for construction of affordable houses during the last few decades mainly on planning and design, building foundation and structural designs, design of multi-hazard resistant construction, efficient and new building materials etc. These building technologies have been demonstrated and provided field level training on hands-on practice to the grass root level functionaries at different parts of the country. It is essential to construct affordable housing using innovative technologies developed by different institutions like CSIR-CBRI for building sustainable built environment which demands development of skills and capacity among the administrative functionaries of the state/district for its systematic implementation. To achieve this, professionals need to be trained in the application of innovative technologies for the construction of affordable housing.

Aim of the Course:

Recognizing the need to develop a pool of trained professionals in the construction of affordable housing using innovative technology, CSIR-Central Building Research Institute, Roorkee is conducting a three day Training course on “Housing for All – Innovative Technology for affordable Housing” during October 14-16, 2015 at its premises. This training course is particularly aimed at enhancing knowledge and developing skills of the Govt. officers to incorporate innovative technologies for the construction of affordable housing for sustainable built environment through lectures, demonstrations and hands-on exercises.

Objectives:

The main objectives are as follows;

- ✓ To explain the importance of sustainable development
- ✓ To enable the participants to understand and appreciate basic concepts of architectural designs and planning in construction of housing
- ✓ To identify various foundation techniques, structural designs and building construction methods
- ✓ To sensitize participants in the potential use of new materials and components for the construction of low cost housing
- ✓ To describe multi-hazard resistant measures for housing covering earthquake, landslides, cyclone and floods

- ✓ To identify the comforts and energy efficiency in buildings
- ✓ To improve the skills of participants in implementing innovative technologies for the construction of affordable housing.

Venue and Duration:

The course will commence on October 14, 2015 and will conclude on October 16, 2015. The course venue will be CSIR-Central Building Research Institute, Roorkee. The lectures and hands-on exercises would be conducted in Lecture Hall of the Institute and at Rural Technology Park.

Course Details:

The program schedule the course has been indicated on the following pages.

Target Group:

The target group for this course would be district and city level officers and functionaries from various line departments of the State/district involved in activities related to planning, design and construction of residential, school, community and health buildings. This training course will accommodate maximum of 30 participants only.

Evaluation of the Course:

The final session will be devoted to evaluation and valediction. The participants will be supplied with an evaluation proforma, which they will complete and hand over to the course staff.

Certificate:

A Certificate will be awarded to each participant on successful completion of the training course.

Training Course Fee:

Training course fee is Rs. 6,000/- (six thousand only) per participant which includes training kit, reading materials, boarding and lodging. Accommodation would be provided for outstation participants at CSIR-CBRI Guest House located inside the institute campus on twin sharing basis.

Please send the duly filled-in application form with training course fee in the form of account payee Demand Draft, drawn in favor of **“Director, CSIR-Central Building Research Institute”** payable at Roorkee. The duly filled application form along with the above documents should reach Director, CSIR-Central Building Research Institute, Roorkee – 247 667, through speed post by **September 21, 2015**. Kindly provide e-mail address, Fax No. and Mobile No. in the application form for due communication.

Tentative Course Schedule

Day / Date	Sessions	Topic
Day 1	Session 1	Introductory Activities, Course Objectives, Schedule, Ground rules, Expectations
		Inauguration
	Session 2	Innovative Technologies for Affordable Housing - An overview
	Session 3	Architectural designs and planning for affordable housing
	Session 4	Geotechnical engineering aspects in building foundations
	Session 5	Structural designs of buildings – Basic concepts and codal provisions
	Session 6	Visit to Rural Technology Park
Day 2	Session 1	Design of partially prefabricated low-rise load bearing systems for buildings
	Session 2	Design & Construction of masonry and RC frame buildings
	Session 3	Design of earthquake & cyclone resistant buildings with case studies
	Session 4	Durability and sustainability of RC Structure
	Session 5	Innovative building materials and efficient use of local materials
	Session 6	Visit to laboratories for facilities available & discussion
Day 3	Session 1	Achieving quality in construction, Maintenance of Buildings & Minor repairs
	Session 2	Landslide Risk Mitigation, codal provisions and control measures
	Session 3	Termite resistant building designs and its control methods
	Session 4	Fire safety in buildings – Methods and practices in construction and fire resistant buildings
	Session 5	Energy efficient methods of comforts in buildings, Energy efficiency in buildings
	Session 6	Evaluation & Validation

Course Coordinators	<p>Ar. S.K. Negi / Dr. R. Dharmaraju Sr. Principal Scientist/Principal Scientist Email: sknegicbri@rediffmail.com & rdraju@yahoo.co.in Mobile: 01332 283485 (O), 09412968993 (M) & 01332 283212 (O), 0706079075 (M)</p>
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Registration Form for attending Training Programme at CSIR-CBRI

Training Course on

Housing for All - Innovative Technology for Affordable Housing

Duration: October 14-16, 2015

(One form to be filled per delegate; photocopy of this form may be used for additional copies requirement)

Name	
Designation	
Organization	
Address for Communication	
Phone & Fax	
E-mail	
Educational Background	
Age	
Professional Background	
Accommodation required	Yes/No

I am enclosing a crossed demand draft No. _____ Dated _____ for Rs. _____ drawn in favour of Central Building Research Institute, Roorkee payable at Roorkee towards registration fee.

Date:

Signature

Address for Communication

Ar. S.K. Negi / Dr. R. Dharmaraju

Course Coordinators,

Training Course on **Housing for All**

Innovative Technology for Affordable Housing

CSIR-Central Building Research Institute

ROORKEE – 247667 (UK)