



WORKSHOP on PERFORMANCE EVALUATION OF HOUSING UNITS

DATE
21-22 July, 2017

VENUE
IIT-Kanpur, Extension Center, Noida

ABOUT THE WORKSHOP

Pradhan Mantri Awas Yojana (Urban) - Housing for All initiative of the Ministry of Housing and Urban Poverty Alleviation provides an impetus for development and standardization of protocols for evaluation of performance of housing units from various points of view. IIT Kanpur and BMTPC, with the support of MoHUPA, are organizing this workshop for different stakeholders to share information relating to identification and testing of materials, components and systems to enhance structural performance and energy efficiency in housing units. The subject acquires special significance given the diversity in materials and structural and other considerations in different parts of the country..

WORKSHOP HIGHLIGHTS

- Existing protocols for testing precast / prefabricated panels
- Testing facilities in different parts/institutions of India.
- Use of infill walls in housing units.
- Evaluation of structural performance of housing units
- Energy efficiency of housing units
- Challenges in rapid construction

SCHEDULE OF WORKSHOP

21 July, 2017 | Friday

11:00 A.M.- 12:00 P.M. : **Registration**
12:00 P.M. - 01:00 P.M. : **Inauguration**
02:00 P.M. - 05:00 P.M. : **Technical Session I***
(“Challenges in Performance Evaluation of Housing Units”)

22 July, 2017 | Saturday

10:00 A.M.- 12:00 P.M. : **Technical Session II***
(Presentation of Project Report on
“Development of Draft Protocol for testing of structural components and Systems”)

**Details of Technical Sessions given separately*

CONVENORS

Prof. Sudhir Misra, IIT Kanpur
Dr. Shailesh Kumar Agarwal, BMTPC

SECRETARIAT

Department of Civil Engineering, IIT Kanpur
Dr. K. K. Bajpai | Tel: +91 512 259 7859

Registration:

<https://goo.gl/forms/PIHNJgQGeq0O2pBA3>

For queries

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Details of Technical sessions*

21 July 2017 | Friday

14:00 – 17:00 || Technical Session I

“Challenges in Performance Evaluation of Housing Units”

14:00	Overview of Workshop	Sudhir Misra, IIT Kanpur
14.20	Emerging Technologies for Mass Housing	Shailesh Kumar Agarwal, BMTPC
14.40	Challenges in Rapid Construction	Rajesh Goyal, HPL
15.00	Case study of energy Demand in Housing Units	Niket Kumar, IIT Kanpur
15:20	Confined masonry buildings as low-cost engineered housing	Vaibhav Singhal, IIT Patna
15:40	Structural laboratory facility at IITG in the direction of traditional/local housing	Sandip Das, IIT Guwahati
Tea Break		
16:20	Large scale real time hybrid simulation of buildings	Chinmoy Kolay, IIT Kanpur
16:40	Facilities for Static and Dynamic Tests of Structures at IIT Kanpur	K.K.Bajpai, IIT Kanpur
17:00	Making higher technical education more meaningful through innovative initiatives	Sujit Kumar, CLI

22 July 2017 | Saturday

10:00 – 12:00 || Technical Session II

“Development of Draft Protocol for Testing of Structural Components and Systems”

10:00	Overview of the Report	Samit Ray Chaudhuri, IIT Kanpur
10:20	Issues in material characterisation and field testing	Sudhir Misra, IIT Kanpur
10:40	Testing Protocols for performance evaluation of masonry panels	Vaibhav Singhal, IIT Patna
11:00	Testing Protocols for components and connections	Debashish Jana, IIT Kanpur
11:20	Performance Evaluation of a RCC framed structure –A case study of SBRA building at IIT Kanpur	Tathagata, IIT Kanpur
11:40	Health Monitoring Aspects of Low Cost Housing	Suparno Mukhopadhyay, IIT Kanpur, Koushik Roy, IIT Patna
12:00	Concluding Session	

*Some details are likely to change.