

THREE TIER DISSEMINATION EVENT ON

# BAMBOO-BASED DISASTER-RESISTANT CONSTRUCTION SYSTEM

- Ten day on-site training for Artisans and Master craftsmen (March 21 - April 1, 2005)
- Five day Training of Trainers (TOT) for Engineers and Project Managers of Building Centres (March 28 - April 1, 2005)
- One day Policy workshop on bamboo-based disaster-resistant construction systems (April 1, 2005)

## VENUE

Micromodel Complex  
Centre for Rural Development & Technology  
Indian Institute of Technology  
Hauz Khas, New Delhi-110016



## ORGANISED BY



HUMAN SETTLEMENT MANAGEMENT INSTITUTE, NEW DELHI



INDIAN INSTITUTE OF TECHNOLOGY, DELHI

## BACKGROUND

Bamboo development in India is now a national goal, as indeed in all the bamboo growing developing countries in the world. One such effort in the search for suitable building technology alternatives has resulted in an innovative bamboo based building system developed as part of a collaborative project between Timber Research and Development Association (TRADA) and Indian Plywood Industries Research & Training Institute (IPIRTI) Bangalore funded by DFID (UK). Furthermore, the system has been tested for earthquake loads at the Central Power Research Institute (CPRI) and it has even withstood the simulation of the Kobe earthquake which measured 8 on the Richter scale. The system can therefore be said to be safe, secure and durable, while being cost effective.

## THREE TIER DISSEMINATION EVENT AT IIT DELHI

In order to disseminate skills and know-how about this bamboo based building system to a wider audience, a demonstration structure is to be constructed at the Micro-Model Complex, Centre for Rural Development and Technology, Indian Institute of Technology (IIT), Delhi. This activity is in the spirit of an MoU signed between HUDCO and IIT Delhi for the setting up a National Resource Facility for Bamboo Technology. Concurrent with the construction of this demonstration structure the following three events are being planned :

### Event One : On-site Training for Artisans/Master Craftsmen

21 MAR - 01 APR 2005

Micromodel Complex, IIT Delhi

It is proposed to attach selected artisans for an on-site training concurrent with the construction of the demonstration house with the objective of imparting requisite skill and know-how regarding the construction of the prototype structure. Targeted for Master Masons and Master Carpenters of Building Centres, and spread over 10 days, the programme is scheduled from March 21st to April 1st, 2005.

### Event Two : Training of Trainers (TOT) for Engineers and Project Managers

28 MAR - 01 APR 2005

NRCVEE Seminar Room, IIT Delhi

The objective is to equip selected trainers from Building Centres and engineers in key engineering organisations with the know how of the said system and to enable the participants to disseminate the skills and knowledge further by

conducting of training in their respective Building Centres/ organizations /projects. This would be done by building up their confidence in the technology by 'hands-on' exposure. It would be open to selected Project Managers of Building Centres, Engineers and professionals.

### **Event Three : One Day Workshop for Policy Makers on Bamboo-based Construction System**

01 APRIL, 2005

Seminar Hall, IIT Delhi

Targeted for secretaries of State Government Departments of Housing and Urban Development, District Collectors, and senior professionals both from Research and Development Bodies; and State and Central Building Organisations; State Housing Boards/Development Authorities/Municipalities; etc. The objective of the one-day workshop for policy makers is to introduce policy makers and other stakeholders at decision-making level to the salient features, of the bamboo-based construction system, including disaster resistance and its suitability for adaption.

### **ABOUT THE AGENCIES INVOLVED**

**DFID** : The Department for International Development, United Kingdom, (DFID, UK) is a part of the Government of the United Kingdom. DFID is one of the world's largest donor agencies, which supports projects worldwide in the areas of urban poverty, environment, gender and other development related issues.

**TRADA** : The Timber Research and Development Association (TRADA), was set up in 1934. Based in the UK and with operations worldwide, TRADA is an internationally recognized Centre of Excellence serving the forest product industries and their suppliers and customers. TRADA has been involved in bamboo development projects since 1994 and is funded by DFID.. Given the global shortage of adequate housing available to the poor, the aims of TRADA's work with bamboo are :

- To develop programmes which promote and support sustainable livelihoods
- To increase access of the poor to safe, secure, durable and affordable shelter.

**CRDT, IIT DELHI** : The basic aim of the Centre for Rural Development and Technology, IIT Delhi is reaching benefits of scientific and technological achievements to the rural sector by giving technical back-up for sustainable rural development and evolving models of holistic development for the nation and world at large.

The objectives of CRDT, IIT Delhi are:

- Identifying problems of the rural sector requiring science and technology inputs and solving these within the paradigm of sustainable development involving the faculty and students of IIT Delhi
- Generating a sustainable technology base by blending appropriately modern science and technology with traditional knowledge
- Undertaking appropriate teaching, research, information dissemination and outreach related activities and networking with other technical institutions, voluntary agencies, government organisations and village industries, for achieving rural industrialisation and improve the quality of life in rural areas

**HUDCO/HSMI:** Housing and Urban Development Corporation Ltd. (HUDCO) is a premier techno financing institution of the Government of India in the field of housing and urban infrastructure development. Since its inception in 1970 HUDCO, has also been in the forefront of nation wide efforts for the propagation of alternate construction technologies. Primarily, this has been through the monitoring and capacity building of the network of 664 Building Centres (585 in Urban areas and 79 in rural areas). Building Centres are registered societies established under a programme of the Central Ministry, with the primary objective of transfer of alternate construction technologies from the 'lab to the land'. Building Centres can be established by entrepreneurs/organisations and are mandated to take up training, construction, production of alternate building materials and carry out housing guidance and counseling. Bamboo and bamboo related technology form a very important component of the basket of technology options and are of great relevance particularly in bamboo growing regions of the country such as the north east, parts of Orissa, Karnataka, Kerala, Himachal Pradesh, Uttaranchal, Jharkhand, etc. Bamboo also forms an important part of disaster rehabilitation efforts by HUDCO.

**For more information regarding the event please contact :**

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