

Three days “Training programme for Masons on Hazard Resistant Construction”

Disaster management and research cell (DMRC), civil engineering department Jaypee University in collaboration with Himachal Pradesh district disaster management authority (HPDDMA), Solan conducted a three days training program for 28 masons (from Kandaghat block), 3 Junior engineers, 2 educators from ITI solan and officials from DC office solan. Jaypee university has been chosen as a nodal center for various trainings and awareness programs conducted by HPDDMA Solan. As a first step in this collaboration on 25th February 2020, three days training program for hazard resistant construction was inaugurated by Honorable Vice chancellor Prof. Vinod Kumar, which was attended by distinguished guests from DC office solan, Kandaghat SDO office, participants from various panchayats of Kandaghat, staff and students from Civil engineering department.



As Himachal Pradesh is a disaster-prone state where disasters frequently occur in form of earthquake or landslides or floods etc., knowledge of hazard resistant construction at grass root level is of utmost necessity. In order to facilitate research and training to minimize damage in an event of disaster, a specific committee named disaster management and research cell (DMRC) has been commissioned in Jaypee university which comprises of professors from civil engineering department. On the request of additional district magistrate Solan, DMRC prepared a curriculum for masons, car-painters, bar binders and all kind of construction workers for capacity building and training them to build hazard resistant structures especially suitable for Solan district. A series of trainings according to this curriculum will be done at various center's chosen by HPDDMA, out of which venue for first training was chosen at Jaypee university. As a nodal center for such trainings, Jaypee university sponsored its expertise and infrastructure support for this three-day initiative.

During the first day of training programme participants were briefed upon how and why earthquake occurs and the need of earthquake resistant design of structures by chairperson DMRC Dr. Tanmay Gupta. Proper knowledge of safety measures during earthquake can help prevent a lot of casualties during such a disaster. A brief overview upon the infrastructure damage during various great earthquake occurred in India made the participants realize the importance of hazard resistant construction. The session also imparted knowledge upon various materials and tools used during the modern hazard resistant construction and important safety/maintenance tips. In the latter half of the day participants were given exposure to lab and site procedures for quality control of the materials. Strength testing of

bricks, concrete specimen, check for quality of cement, fine aggregate and coarse aggregates were the main highlights of the session.



Second day of three days training program was focused upon hands on training for the participants for earthquake resistant masonry structures and reinforced concrete framed structure. Participants came to know regarding various masonry building schemes such as English bond, Flemish bond, Rat-trap bond via practical demonstration and themselves building these schemes. Furthermore, based on latest Indian codal provisions, the importance of earthquake resistant band and their proper ductile detailing of reinforcement were discussed, demonstrated and practiced.





Dr Saurav, Chairperson DMRC addressed the participants on the final day briefing them upon ductile detailing of beams, columns and foundations in a reinforced concrete framed structure. He also imparted knowledge upon unconfined and confined masonry structures. Classroom sessions were followed by demonstration and hands-on practice upon reinforcement detailing. As most-commonly faced problem during earthquake or any hazard is due to lack of confinement of reinforcement, safe and economical construction practices for low cost housing and even for multi-story buildings, emphasizing on proper confinement were discussed, demonstrated and practiced. Three days training came to end on 27th February 2020, via certificate distribution. Chief guest for the closing ceremony SDM Kandaghat interacted with the participants and thanked DMRC, Jaypee university to organize and sponsor the programme.



No. DDMA/19/2018 Masons Training - 2854
Office of the Deputy Commissioner,
Solan District, Solan(Himachal Pradesh)

To

The Vice Chancellor
Jaypee University of Information Technology
Waknaghat, P.O. Waknaghat, Teh Kandaghat, Distt. Solan

Dated,

Solan- 173212

Sub:

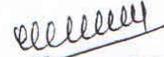
Regarding 3 days masons training at JUIT, Waknaghat from 25 February
to 27 February, 2020

Sir,

This in reference to 3 days training of masons for hazard resistant construction held from 25 February to 27 February, 2020 at your campus. As you are aware, a total of 28 masons and 6 technical staff members of the district were trained in this training programme. I sincerely appreciate your cooperation and efforts towards this initiative of DDMA, in setting up of "Nodal centre for training of masons in hazard resistant construction" at Disaster Management and Research Cell(DMRC), JUIT and smooth conduct of the aforementioned training. I am looking forward to more such collaborations with you in future.

You are requested to schedule next batch of training (for a batch of 40 participants) in the month of March and apprise this office about the same. In case of any query, kindly contact Ms. Apoorva Maria, Training and Capacity Building Coordinator, DDMA at +91 99157-24830.

Yours faithfully,

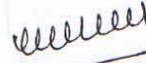


(Vivek Chandel) HAS,
Additional Deputy Commissioner
District Solan, H.P.
Email: ddmasolan@gmail.com

Copy for Information to:

1. The Special Secretary (Rev-DM) to the Govt. of Himachal Pradesh, Shimla
2. The H.O.D, Civil Engineering, Jaypee University of Information Technology, Waknaghat(H.P)

Yours faithfully,



(Vivek Chandel) HAS,
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HOD / CBD
FNA/ld.
44.09/02/2020