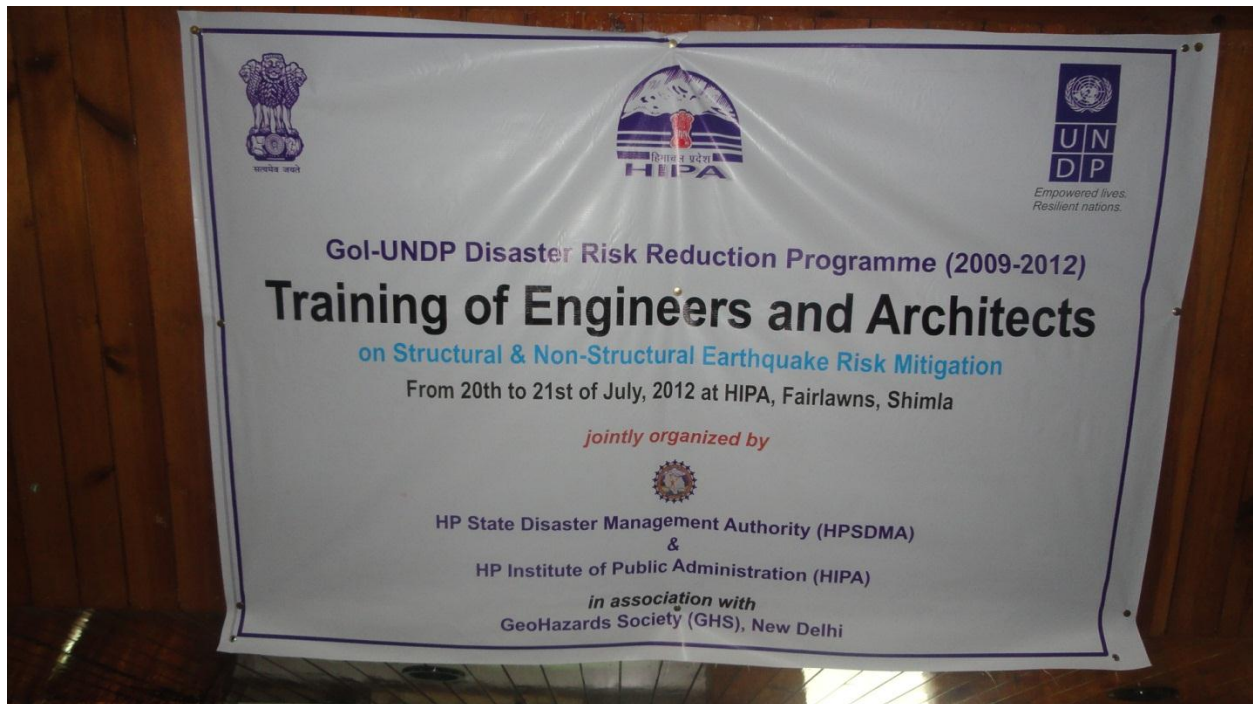


Report on training for the Engineers & Architects in Structural and Non-Structural Risk Mitigation from Earthquake Hazard in Himachal Pradesh

20-21 July, 2012, Fairlawn, Shimla, HP.

Under GOI-UNDP DRR Programme (2009-12)



Under the Government of India-UNDP Disaster Risk Reduction Programme (2009-12) two days training was organised for Engineer, Architects and Town Planners at HIPA, Shimla from 20-12 July, 2012. 35 participants mainly consisting of Engineers, Architects, and Town Planners from PWD, Electricity, I & PH, HIMUDA, TCP, HPTDC, MC Shimla, Urban Development participated in the training. 10 Engineers, 8 Architects, 9 Town Planners and 5 others professionals were trained. Training was on structural and non-structural earthquake risk mitigation in Himachal Pradesh.

The training/orientation stressed on the following issues:-

- Earthquake hazard and earthquake risk mitigation
- Behaviour of buildings in earthquake
- Earthquake Resistant Construction of Masonry buildings

- Earthquake Resistant Construction of RCC Buildings
- Rapid Visual Screening of Life-line Buildings
- Seismic Retrofitting
- Non-Structural Risk Mitigation

Resource Person: the following resource persons trained the participants:-

- i. Dr. CVR Murti, Prof, Civil Engineering, IIT Madras
- ii. Sh. Hari Kumar, Regional Coordinator South Asia, Geohazard International, New Delhi

In view of earthquake hazard in the state this training is of utmost significance.



Group Photo of the Participants

Material distributed:-

1. Earthquake Tips – Learning Earthquake design and construction
2. IEC material
3. Masons tool and
4. Homeowners guide

Training Schedule

Day One: 20th July, 2012

10-00 : Introduction and Pre Test

10-15 : The Earthquake Hazard

10-45 : Earthquake Risk Mitigation

11:30 : Tea

11-45 : Building behaviour in Earthquakes

12-45 : Discussion on morning session

13-00 : Lunch

14-00 : Earthquake Resistant Construction of Masonry buildings

15-00 : Earthquake Resistant Construction of RCC Buildings

16-00 : Tea

16-15 : Rapid Visual Screening of Lifeline Buildings

Day Two: 21st July, 2012

09-30 : Discussion on afternoon session, Day 1

09-45 : Introduction to Seismic Retrofitting

10-30 : Methodologies and Decision making in Retrofit projects

11-15 : Tea

11-45 : Case Studies of Seismic Retrofit Projects

12-45 : Discussions on morning session

13-00 : Lunch

13-45 : Non-structural Risk in earthquake prone regions

14-30 : Non Structural Risk mitigation

15-00 : Personal Preparedness

15-30 : Post Test & Discussions on trainings



UNDER GOVERNMENT OF INDIA-UNDP DRR PROGRAMME (2009-12)

20 - 21 JULY, 2012 AT FAIRLAWNS, HIPA, SHIMLA.

ATTENDANCE SHEET

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