



## Ahmedabad Municipal Corporation

### Urban Earthquake Vulnerability Reduction Programme

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#### Training Need Assessment and Experience Sharing One Day Workshop on Earthquake Resistant Construction Technology



Date: 5<sup>th</sup> April 2007

Venue: Patel Hall, Nirman Bhavan, Opp. British Library, Law Garden, Ahmedabad.

Participants: 40 engineers from various projects/department of Ahmedabad Municipal Corporation.

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## Why this?

Ahmedabad City is growing more and more for being MEGA city. It leads infinitive construction process like residential and commercial buildings, bridges, housing for specially categorized community, river front, water storage and drainage system, road etc.

Ahmedabad city falls in Earthquake Zone-III so it is necessary to orient and built capacity of construction professionals of AMC.

With this thrust, we will have three or four days training Program on Earthquake Resistant Construction Technology for Engineers of Ahmedabad Municipal Corporation tentatively in May, 2007 as part of Capacity Building component of UEVR program. Before detail training it has been find out with the help of experts of this area that A **Training Need assessment and Experience Sharing workshop for just one day** should be organized. It will be helpful to know about subjective requirement of participants and followed Training Module preparation.

## Objectives:

- To orient participants about UEVR program.
- To sensitize participants about importance of Disaster Risk Management.
- To give introduction to participants about Engineers bill and DM Act, 2003.
- To assess need of Four days training program on Earthquake Resistant Construction Technology.
- To remain training live and interesting as learning.
- To promote participants for sharing their experiences and views.

## Selection of Participants:

Series of meeting were organized with Mr. Pritam Raut, Town Development Officer and Mr. Tarun M Lad, Special City Engineer of AMC. Finally decided that 35 participants from Town Development Department which has major role of development permission and regular monitoring of construction within the limit of corporation area and 15 participants from Engineering department which has major role of constant monitoring as well as execution of construction projects by AMC (within the limit of corporation area)

## About participants:

Department	No. of participants	Designation
Town Development	27	Asst. TDO, Inspector, Sub Inspector and Asst. Sub Inspector
Engineering	13	Deputy City Engineer, Asst. City Engineer from various ongoing projects of AMC as Slum Networking, Drainage, Housing, Bridge, Water, Road, TCIDS Project etc.
<b>TOTAL</b>	<b>40</b>	

## Program:

- ✓ Programme started with welcome speech by NUNV-Project officer, UEVRP.
- ✓ Mr. Amit Shah, Hon. Mayor of Ahmedabad city remarked with the context of Earthquake of January 2001 “we have to make our city safe from natural hazards. Role of Engineers of AMC is very crucial in emergency response as well as preparedness.”
- ✓ NUNV-Project Officer **oriented** to all participants about **Urban Earthquake Vulnerability Reduction Program and its major components in brief.**



- ✓ Mr. J H Gadhavi, Deputy Director of Gujarat Institute of Disaster Management has taken session on **Role of Engineers in Disaster Management**. He covered,
  - Concept and typology of Disaster Management
  - Some provisions of Disaster Management Act, 2003
  - About Engineers Bill
  - Etc.



- ✓ Mr. Sarat Panda, Programme Associate, DRMP, UNDP has shared presentation on **Capacity & competency building of stakeholders in seismic Engineering**.
- ✓ Mr. Dipan Shah , IHD-SEP was the expert trainer for this crucial workshop. He covered following topics as,
  - **Disasters and Structural failures**
  - **Building for the future**
  - **Learning's from past**
  - **Retrofitting- A step to disaster preparedness**



- ✓ Prof. C S Sanghvi, Applied Mechanics Department, L D college of Engineering has supported to Expert trainer in **Experience sharing and Question-Answer session**.

### Group Work:

After this session all participants were divided in three groups and executed group exercise on Thrust areas or topics that should be incorporated in three of four days details training program. These are,

- **Retrofitting and Restoration**
- **Pre/Post disaster Management guideline for engineers of AMC/AUDA**
- **Building Bylaws and license**
- **Guideline for overhead and under ground water tanks.**
- **Drainage lines/Bridges/Roads**
- **Safe methods for Demolition damaged buildings.**
- **Retrofitting site visit**



### Feedback from participants:



**Voice of group shared by Group leader**



**Resource persons with feedbacks of participants**

### Opinions:

- “This one day workshop is very useful for us because we have come to know about Earthquake and its effects” says Kishor M Vanera, Sub Inspector, TD Dept.
- “It gives us latest construction methods. It helps us in the field while passing the new site, so we must force to the builders/contractors for safe construction.” Says Bhavesh J. Shah, Sub Inspector, TD Dept.
- “The orientation is really good and very useful for me and our staff.” Says Jitesh B Gurjar, TD dept.
- “Every responsible engineer must be made aware of latest updates, specification and codes.” Says Rushi Pandya, Engineering dept.
- “This orientation is useful in our practical field work also we can implement up to best level and give better services to citizens.” Says Sharman Hoon, TD dept.

## Suggestions/ Recommendations:

- “Detail training is required for knowing detail knowledge of effects of earthquake and any disasters.” says Kishor M Vanera, Sub Inspector, TD Dept.
- “To organize site visit on some important projects rather than only discussion.” Says Jay Dhandhukia from TD Dept.
- Detail explanations keeping in mind the department from which the officers attend this seminar. The particular topics regarding the scope of work.” Says Nikunj G Barot, TD dept.
- “Good training but require details discussion on retrofitting.” Says Mayank Raval, TD dept.
- “Keep no. of points less but whatever topics are taken should be discussed right from basics up to in-depth latest technology including site visits if possible or otherwise photographic presentation at least.” Says Rushi Pandya, Engineering dept
- “Site visit of retrofitting and demolition of damaged building.” Says Jitesh B Gurjar, TD dept.
- The training was good but it should include infrastructure facilities like road, drainage, bridges, road, water harvesting structures etc.” says Rakesh P Bodiwala, Engineering dept.
- “Training regarding old bridges repairing work, quality control and materials testing etc.” says Himanshu T Mehta, Engineering dept.
- “Of 4 days workshop, at least for 2 days, there should be provision for site visits after lunch especially to visit local buildings under construction/dangerous buildings or building where retrofitting is going on.” Says Madhu Trivedi, TD dept.

## Conclusion:

Qualitative Feed backs and Suggestions/Recommendations from participants shows that how this one-day workshop was able to assess the need of future Four Days training on Earthquake Resistant Construction Technology for varied participants from different department and projects of Ahmedabad Municipal Corporation. All participants shared their views and experiences very actively in feedback form.

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