

GoI-GSDMA-UNDP

URBAN EARTHQUAKE VULNERABILITY REDUCTION PROGRAM

Ahmedabad Municipal Corporation

Report on Masons Training Program

Supported by Gujarat Institute of Civil Engineers & Architects

Co sponsored by Ultra Tech Cement Co. Ltd.



Participants: 63 skilled & practicing Masons from various ongoing construction sites of Ahmedabad City.

Resource Persons: Mr. Depan Shah, Society for Environment Protection, Ahmedabad
Resource person from Ultra Tech Cement Co. Ltd.

Duration: 11th & 12th August 2006

Venue: Patel Hall, Nirman Bhavan, law Garden, Ahmedabad

Rationale

As someone says that “Earthquake never kills anyone but our poor construction do that”. While we talk about construction our mind quickly think about construction materials, engineers, architects, builders, masons etc that everyone has different role in construction process. Engineers & Architects makes plan of building but under their guidance, Masons & skilled or unskilled labors execute actual work of construction. The role of Mason is very crucial in overall construction process. Sometimes masons are being sandwich in construction process between construction supervisor & unskilled labors.

Now Ahmedabad City is going to be MEGA city. IT leads city as ‘Forest of Concrete’. Ahmedabad City falls in Zone-III in terms of Earthquake so it is necessary to adopt Earthquake Resistant Construction Technology & upgrade skills of masons in Earthquake Resistant Construction.

About Program:

Keeping this rationale in mind, Ahmedabad Municipal Corporation has organized Two Days Mason Training Program on Earthquake Resistant Construction under UEVR Program in Patel Hall, Law Garden, Ahmedabad on 11th & 12th August, 2006 with the support of Gujarat Institute of Civil Engineers & Architects & Ultra Tech Cement Co. Ltd.

Participants:

Total: 63 skilled & practicing masons from various ongoing construction sites of Ahmedabad City.

Inaugural Speech

The training program was inaugurated by Mr. Hareshbhai Parikh, Sr. Member of GICEA, Mr. Sandeep Holey, Technical Assistant, Ultra Tech Cement Co. Ltd. & Mr. Depan Shah, Trainer.



Mr. Hareshbhai Parikh suggested to participants that Skill up gradation will helpful to all participants individually as well as to society.

Mr. Sandeep Holey remarked that in new era, urbanization is improving & specific skill will be required in future.

Topics Covered

In two days masons training program, topics covered as,

- Understanding of the Earthquake and Seism city of Gujarat and why it occurs. Also various myths about the same were addressed. Also discussions on why buildings fall in earthquake were done.
- Site Selection criteria
- Various building layouts and its susceptibility to the earthquake.
- Understanding of drawings (plan and elevations)
- Line out methodologies
- Excavation and points to remember while excavation. How to decide excavation depths and criteria for the same where equally discussed.
- Easy methods of Ground Improvement.
- Foundation concrete methodology
- Masonry in foundation using brick or stone.
- Field test of brick quality.
- Principles of Masonry construction
- Importance of corner joinery in masonry and methods of leaving cold joints.
- Common mistakes and consequences
- Special precautions like corner reinforcement, openings, etc. - why they are defined and what's their importance
- Importance of bands at various levels with reinforcement detail and concreting.

- Concrete as a material and importance of cement, steel, aggregate sand and water was discussed in detail. Special emphasis on the water content in concrete and importance of curing.
- Precautions to be taken while laying RCC slab or Sloping roof. Also methodologies to do so discussed along with questions of selection of climatically appropriate option.
- Flooring systems discussed and explained in brief.
- TIFAQ Movie

Trainer had also addressed clarifications about need specific queries.

Group Work & Presentation:

On the 2nd day of training all masons have been divided in seven groups. They have done group work on what they have learnt on first day & presented towards other participants. 05 minutes interactions on each presentation were carried out.



Due to this activity, participants have got platform for routine practical experience sharing & came out from their minor mistakes.

Site Visit:

All participants have visited ongoing construction site with trainer at “Sangath Silver Flat”, Gandhinagar -Sabarmati- Ahmedabad highway. Participants observed on going construction with keeping view of new learning.



After completion of site visit, discussion session was organized on it.

Feedback:

All participants have filled feedback form & some of the participants shared their views on overall training program.

Iliyasbhai Mistri: I have learnt how to retrofit old houses make them earthquake resistant.

Govindsingh: I have learnt how to best use of construction materials.

Pramod Mandal: I have learnt how to build earthquake resistant houses.

Rameshbhai Valjibhai Chandrapal: I have got good training but it should be more than two days so we can learn more & more.

Chhaganbhai Dudabhai Rathod: After getting this training we will use this new acquired knowledge in practical routine & teach to others.

Jyotinarayan Pandit: I have learnt that masonry work must be done properly without any mistake.

Laxmanbhai Birjibhai: In this training discussion were done about Cement-Concrete, Earthquake resistance construction, site visit etc. I have learnt about reinforcement. In future I will apply this knowledge in routine construction.

Sample Feedback Form:

અમદાવાદ મ્યુનિસિપલ કોર્પોરેશન

કડિયા માટેનો ભૂકંપ પ્રતિરોધક બાંધકામ અંગેનો તાલીમ કાર્યક્રમ

પ્રતિભાવ પત્રક

નામ:- રમેશભાઈ વાલજીભાઈ ચંદ્રપાલ

(૧) તાલીમમાં ક્યાં ક્યાં વિષયોની ચર્ચા થઈ?

ભૂકંપ વિષયે માહિતી અને ક્યા કારણો સાર ભૂકંપ મુક મહાનો લગાવે તે કોઈ કુદરતી વાયુ બાદ સમાવર, પનાસાઈ, રોડા ક્રાફ્ટ, પ્લાસ્ટીક લેવલ, લીટલેવલ, R.C.C. પોસ્ટની મર્યાદા અને પદ્ધતી સાર કામ કરવું વગેરે

(૨) સાઈટ વિઝીટમાં શું નવું જાણવા મળ્યું?

સાઈટ વિઝીટ માં કઈ રીતનું કામ વાય છે અને કુદરતી રીતે કરવું R.C.C. કરવી વખતે સફીરા નીચે પેટ્રીંગ રાખવું અને સાવધા માટે ઘાડી રાખવી

(૩) તાલીમ દરમ્યાન શું શું નવું શીખ્યા?

તાલીમ દરમ્યાન માન-સામાજ નો કઈ રીતે પદ્ધતીસર ઉપયોગ કરવો અને મજબુતી વધે કોઈ કોઈવા કરવી

(૪) પ્રાપ્ત કરેલ નવું જ્ઞાન ભવિષ્યમાં કેવી રીતે ઉપયોગી થશે?

પ્રાપ્ત કરેલું જ્ઞાન ભવિષ્યમાં તમે સીખડાયા મગાડો કરવાથી કઈ રીતે આગળ પધવું અને કઈ રીતે માન પ્રાપ્ત કરવું

(૫) સૂચનો

જે કામને તાલીમ આપી તે ગોળ્ય અને વ્યવસ્થી છે અને પદ્ધતીસર છે પણ તે દિવસ પાંચ દિવસ ની તાલીમ હોય તો સમગ્રે વધારે જાણ પ્રાપ્તવાય અને ભવિષ્યમાં આગળ પધવા મેદદ રપ વાય

તારીખ:- ૧૨-૧-૨૦૦૬
સ્થળ:- અમદાવાદ.

તાલીમાર્થીની સહી

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Certificate & gifts to participants:

Certificate of Participation has been given to all participants. Ultra Tech Cement Co. Ltd. & Gujarat Institute of Civil Engineers & Architects had provided small gifts to all participants.

Sample of Certificate:



Conclusion:

This is the first experience to organize Two days training program for Mason on Earthquake Resistant Construction. This was nice experience & also learning. Ultra Tech Cement Co. Ltd. & GICEA are ready to help administration in future training program.

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