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Report on Four Days

Training of Masons

On Disaster Resilient Construction



22-04-2014 to 25-04-2014

Organizer – Sudha – ODCH

Funded - PIU

Support – District Administration, Uttarkashi

Training Venue	District Collectrate Campus and Zila Panchyat Meeting Hall
Total Number of Participants	46
Trainer	Mr. Ramchandra Panda (DPM – Housing) Dr. Girish Chandra Joshi (Disaster Management Experts – DMMC)
Organizer	Team SUDHA
Type of Participants	Beneficiary's mason and Beneficiary

Purpose of the Training –

To enhance the capacity of Mason's in context of Disaster Resilient construction so that they could communicate the message of disaster resilient construction with effective implementation.

Day First –



First day of training was started on 11 AM in the morning in Zila Panchyat Hall. Mr. Dinesh Mahtolia (State Coordinator) welcomed all participants; first he introduced all guest and trainers with all participants. Then he explained project overview to all participants. He told that we can say this project in one statement that we have to

construct safe house. Mr. Nitin Jagtap told to all participants that this training will enable on house construction with disaster resilient features. Mr. Harpreet Singh told to all participants that get this training with full of dedications.

After that, Mr. Ramchandra Panda took charge for training, first he told about stone and brick masonry. He told that generally we make load bearing structure, but in this type of construction we did not ensure proper strengthening of house.

The result of this type of house during earthquake they could not stand and damage adversely.

After this, all participants had lunch, then all participants went to site for construction. On the site, Mr. Ramchandra Panda and Dr. Girish Chandra Joshi formed four groups of all participants and they had given the task of layout of a house to all groups in different places.



All groups have done their tasks successfully, after that Mr. Ramchandra panda verified all group's work, and then he collected all and described the detailing of measurement.

After this exercise, one group has started digging the foundation, second group has started to collect material like water, metals etc and third group has started iron work like formation of ring etc.

After all construction work, all participants went to meeting hall, On this point Mr. Ramchandra panda explained them on theoretically regarding first day construction work.

Day Second –



Second day was started with formation of foundation. All participants reached on site early morning, they have started their foundation level work. First of all they have done PCC, putting band and ring on foundation base. Two column and 2 single iron was fixed on each corner of site after that measurement with thread was done so that all column

and iron should be in same length and pipe level should be same in each corner. After that all participants have done Stone masonry work on that. In the evening, a movie based on Bhuj 2001 earthquake was shown to all participants. In the second day, District Magistrate Uttarkashi had visited to site and put suggestions on construction.

Day Third –



Third day was started with the curing of foundation level with water. After that plinth band was done on foundation level. After that all participant went to meeting hall for discussion. That time, Mr. Ramchandra Panda explained about constructions methodology and some pictures clippings were shown by him to all participants. What are the

good or bad practices for during house constructions was described by him. After that lunch was done by all participants, and then, above plinth level work was started. Brick masonry was done by trainees. Similarly band formation for silt and ring was done by participants.

Day Four –



This day was started with the preparation of window silt band on wall, and the brick masonry work was done on it. The ratio for this mixture was 1:3:4. After having breakfast all participants was done brick masonry work up to door band. But door band was not completed.

In the evening after lunch, a final discussion with all participants was done at meeting hall. In this session 29 points for house constructions were

discussed with all participants, Toilet construction through power point presentation was done by Mr. Ramchandra Panda. Mr. Girsh Chandra Joshi oriented to all participants on retrofitting through movie.



A cross questioning session was also done in this training. At last, Certificates to all participants was distributed and Mr. Kuldeep Uniyal had given vote of thanks.

Cross questions of participants –

- Mr. Sakal Chand, village Kawadi Barkot asked about retrofitting and its implications.
- He also asked about the ratio of steel in lintel.
- Some mason asked which steel will be suitable for roof work and what size of net will be used for roof work.
- What should be the ratio for roof casting?

Feed back –

- All participants were very happy after getting this training.
- In the last day they had ensured to us for doing disaster resilient work.
- They were also agreed to spread this message all others masons.
- In these participants some of the beneficiaries self.
- They were very happy since before this they did not get such kind of training in their whole life.

Course of Content during Training -

Day first	<ul style="list-style-type: none"> • Welcoming of all Participants • Orientation of all participants on program, and its special
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	<ul style="list-style-type: none"> components • Site visit, group formation and measurements • Preparation of layout. • Orientation of all participants on technicalities of constructions during the time of foundation making
Day Second	<ul style="list-style-type: none"> • PCC work • Formation of column and single iron for corner. • Foundation making with stone • Presentation of Movie based on Bhuj 2001 Earthquake.
Day Third	<ul style="list-style-type: none"> • Plinth level work • Brick masonry work on plinth level • preparation of window silt band
Day Four	<ul style="list-style-type: none"> • Placing of window silt band • Brick masonry up to door band • Discussion and cross questioning session with participants • Certificate distribution • Vote of Thanks

Participants details including beneficiary mapping -

<i>Serial Number</i>	<i>Participants Name</i>	<i>Village and Designation</i>	<i>Beneficiary Code which covered Directly</i>	<i>Beneficiary Code which covered Indirectly</i>
1	Dr. Girish Chandra Joshi	Disaster Management Specialist		
2	Surendra puri	Community Organizer		

3	Dalveer Singh	Technical Experts (Civil)		
4	Er. P.K.Goyal	Technical Experts		
5	Nitin Jagtap	Project Director Sudha		
6	Dinesh Mahtolia	State Coordinator		
7	Harpreet Singh	MIS Experts		
8	Jogi lal	Mason Village Koti	U61 and U62	U63
9	Pradeep Chandra Ramola	Master Mason (Sudha)		
10	Barfia lal	Mason Village Masal Gaon	U111	U44, U45, U48, U49, U50, U51 and U52
11	Pulam lal	Mason Village Syalna	U87 and U88	U67, U70, U73, U74, U75, U77 and U78
12	Sakal chand	Mason Village Kawadi	U64	U60 and U59
13	Fakir Chand	Mason Village Khand	U65	
14	Ramchandra Pandya	DPM Housing		
15	Laiber lal	Mason Village Ramagaon	U17	
16	Ram lal	Mason Village Mandiasari	U27	U31
17	Naval Kishor	Masond village Hitanu	U250	
18	Ishwar Singh Chouhan	Mason village Saras	U132 and U133	
19	Mukesh Tamta	Mason Village Nagani	U262	U2, U5 and U255
20	Sunder lal	Mason, Village Badalda	U7	U6
21	Sunder lal	Mason Village	U33	

		Udri		
22	Mohan lal	Mason Village Dadoli		
23	Sarat Singh	Mason Village Dadhung	U20	
24	Bhagwan Das		U252	U253 and U254
24	Kamlu Sah	Mason Village Udri	U34	U35, U36 and U37
25	Mohan lal	Mason Village Ramagaon	U19	
26	Mangal lal	Mason, Village Malsi	U249	
27	Lakhan lal	Mason, Village Bagodi	U1	
28	Anil Sah		U32	U28 and U29
29	Soban lal	Mason, village Shreekot	U13	
30	Tikaram	Mason, village Shreekot	U10	
31	Dharmesh	Village Chaptadi	U22	
32	Harshmani Raturi	Master Mason (Sudha)		
33	Yashpal Singh	Mason, Village Nuranu	U127	
34	Koul das	Mason, Village Nuranu	U129 and U128	U115 to U131
35	Vijal Singh	Mason, Village Nanai	U151	
36	Sachendra Singh	Master Mason (Sudha)		
37	Kishan Singh	Mason, Village Joshiyara	U241	
38	Afzal Ansari	Mason, Didsari	U211	U212 and U214
39	Shanti lal	Mason, Village Didsari	U229	
40	Siya ram	Mason, Village Bhadrali	U18 and U17	

41	Harshlal	Mason	U215	U216
42	Birender lal	Mason	U8	
43	Ajay Pal	Mason	U12	
44	Shailendra Bhatt	JE (Sudha)		
45	Mukul Sharma	IEC (Sudha)		
46	Kuldeep Uniyal	DPC (Sudha)		