## **News Update**

2012/16

## Sixteenth Flood Response Newsletter HF-DFID-IOM Shelter Demo Project



## Build Back Safer with Vernacular Methodologies

The work of extensive research on vernacular methodologies and construction of demonstration/ model units in 35 tehsils in Lower Sindh was undertaken with support from DFID and IOM from October to December 2011.

It is among rare occasions that detailed research on the behavior of rain and floodwaters on traditional building forms and methods has been undertaken in the country. Since Heritage Foundation believes in the involvement of the youth in both heritage safeguarding and humanitarian aid efforts, teams of student volunteers of architecture, mainly from the Department of Architecture, Faculty of Visual Arts, University of Karachi were inducted into the programme. Some students of Architecture belonging to the Mehran University, Jamshoro, also joined the group of volunteers.

The student volunteers were divided in to two groups, each group consisting of several teams. The teams in one group were led by Ar. Zulfiqar Noor which concentrated on carrying out surveys in 35 talukas/ tehsils, while the teams of the second group were lead by Project Manager Humanitarian aid Works, Naheem Shah, that was engaged in conducting construction workshops and helping in building 2 model rehabilitated units or 1 complete unit in all 35 tehsils/talukas of 8 priority districts.

Both groups carried out commendable work as both had to reach out to far off and dispersed locations. Among the groups were 5 young women students of Architecture, who also braved the tough conditions in the interior of Sindh. The field surveys lead to developing detailed interventions in order to construct improved adobe/mud and reed walls.

The survey of construction techniques in Sindh, on one hand provided information regarding the strength and weaknesses of vernacular structures, on the other proved the unsuitability of RSJ steel girders and poorly constructed burnt brick walls for Sindh's rural areas.

The construction teams' workshops and model units in remote localities demonstrated an understanding of the value of well built mud walls. The use of lime as a valuable weather resistant material for external rendering and roof finish as well as the value of sustainable, green KaravanRoof was propagated. The KaravanRoof could be tested immediately by 15 family members as a safe haven roof for refuge during floods.

A great deal of valuable research work and the requirements for better construction methodologies using vernacular construction techniques has been carried out by Architect Yasmeen Lari in consultation with Engr. Amin Tarig.

The research findings and Disaster Risk Reduction or DRR-driven recommendations have been included in Chapter 4, from page 4.2 to 4.13, of final report prepared for DFID and IOM. In addition a short version of the report is being published for large scale dissemination.

The list of beneficiaries in 35 talukas is placed on our website for ready reference.





Tamping the soil in c a firm base.

man participating in the cor Iction of her house, mixing o e in a lime pit.



Participation of local community in the rehabilitation process.



Construction of mud toe to provide protection to the base of



E-6, Fourth Gizri Street, DHA 4, Karachi Voice: (92 21) 5863474, 5834215; Fax: (92 21) 5863474; info@heritagefoundationpak.org; www.heritagefoundationpak.org 1 of 2 UN Recognition Award 2002 for promotion of culture and peace.



Raised platform for the s drinking water.

ed by IOM visitor, reviewing completed

rkshop is being attended by a large number of

21st Jan. '12

## LIST OF BENEFICIARIES FOR HF-DFID-IOM SHELTER DEMO PROJECT

<u>S.No.</u>	<u>District</u>	<u>Tehsil</u>	Village	Household name	<u>Contact No.</u>
01	<u>Tando Allahyar</u>	Tanda Allahvar	Mouk Sharif	Lelo	
02		Tando Allahyar		Ramzan	
03 04		Jhando murree	Meing war	Rana Sarah	0344-3544505 0344-3544505
05 06		Chamber	Sheesh Mahal	Qasim Ghulam Mohammad	0301-3620063 0343-3341229
07	<u>Mirpur Khas</u>	Mirpur khas	Bhojomal	Tulsi	0315-2825339
08 09		Sindhri	Haji Pir Bukhsh Jarwua	Radha Kewal	0347-2332125 0342-3265487 0347-3757802
10 11 12 13 14 15 16 17		Goth Ghulam Mohammad	Goth Shameer Hotel	Lelo Mohammad Ali Mehboob Ali	0300-3557825 0300-3557825
12 13 14		Digri	Pak Mori	Chaksi Hershan Bewal	0332-0366204 0332-0366204
15 16		Jhudo	Goth Sher Mohammad	Mehboob Ali Pirgo	0300-3326186 0304-6271549
17 18		Hussain Baksh Murree	Goth Pir Aftab	Lachman Mother of Lachman	0345-3442681 0345-3442681
	<u>Tando Mohd. Khan</u>	Tando Ghulam Haider	Jarro Babber	Shaukat	0331-2949088
19 20 21 22		Tando Mohammad Khan	Fazlabad	Ghulam Shenshah Hari Chand	0331-2949088 0341-2674481
22				Bhemla	0345-3426599
23 24	Coursebou	Bhulri Kareem Shah	Ghafoor Maksi	Channu Ali Gul	0301-3674249 0301-3674249
25	<u>Sanghar</u>	Sanghar	Dost Mohammad Hayat Murree		0331-3328395 0306-3594997
20 27 28		Sinjhoro	Goth Syed Noor shah	Khoro Bhag chand Bhag chand's mother	0300-3053845
25 26 27 28 29 30 31 32 33		Jam Nawaz Ali	Goth Haji mubarak	Phelaaj Jani s/o Konho	0314-2268212 0343-3531620
31 32		Tando Adam	Gori Town	Qurbaan Magbool	0305-3253998 0313-8270410
33 34		Shahdadpur	Sabadiary	Fatima w/o Ghulam Rassol Amina w/o Tayab	0302-3925758 0302-3925758
34 35 36		Khipro	Walayat Colony	Hamraj s/o Arjant Rana s/o Jag Mal	0301-3220788 0345-3701586
37 38	<u>Benazirabad</u>	Duor	Tharo Mal	Faiz s/o Yousif	0303-3410357
39		Benazir Shaheed	Pir Makhdoom	Badal s/o Muhammad Paryal Karim Bux s/o Noor Bux	0307-21277767 0307-3227295
40 41 42		Sakrand	Ghulam Rasool Raho	Saidal s/o Majnoon Mansoo s/o Kumbhal Bacho Mal s/o Saboo Mal	0303-32737767 0300-3227605 0300-3227605
42 43 44		Qazi Ahmed	Rahimabad	M-Saleem s/o M-Hayat Molvi M-Akram s/o M-Sahrif	0308-3340996 0300-3229381
	<u>Badin</u>	Fazil raho	Chak 11	Jaman s/o Mooso	0346-2479159
45 46 47		Badin	Husain Mangwar	M-Hasan s/o Ghulam Deedar Ali s/o Jumbo	0347-3647193 0333-2536369
48 49 50		Tando Bago	Novaabad	Anwar Ali s/o Ayoub Haresh s/o Rao Kumar	0334-3552578
50 51		Talhar	Photo Machi	Shambol s/o Darhon M-Zaman s/o M-Yousif	0342-3414221
51 52 53		Matli	Noor Muhammad Kohar	Abdul Sattar s/o Zafar Wie s/o Toto	0342-3414221 0331-3342148
54 55	<u>Umerkot</u>	Comoro	Done Meli	Akram Ali s/o Aldalo	0331-3342148
55 56 57		Samaro Kunri	Rano Mali Shoke mal Mari Stop	Parkho s/o Nagjee Arshan Kumar s/o Bago Kanjee s/o Kirshan	0301-3491507 0308-3259722
58 59		Umerkot	Qasimabad	Alam s/o Chandar Ramjee s/o Wala	0302-3625345 0344-4921774
60 61		Pathero	Kamil Chanhio	Narian s/o Wala Rab dino s/o Ramzan	0344-4321774
62	<u>Tharpakar</u>			Sohrab s/o Rab nawaz	0331-3466423
63 64		Mithi	Kolhi Colony	Najoo s/o Walji Mochand s/o Asero	0336-3103669 0336-3103669
65 66		Diplo	Nanji Dhani	Kanjee s/o Kusab Basar s/o Ksab	3322082048 3322082048
67 68		Nagar Parkar	Hero Javinda	Pero so/ Imraj Demon w/o Gule man	3322082048 3322082048
69 70		Chachro	Chachro	Noor Mohd. s/o Gul-Mohd. Muhammad Somar s/o Gul	3321314880 3312867635

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