Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk

| Table No. : PN 16 | | State : PUNJAB | | | | | | TARN TARAN | | | | |

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				in %
					74.1	25.9		100				77.5
WALL												
A1 - Mud &	Rural	18,636	7.4									
Unburnt Brick Wall	Urban	1,558	0.6									
	Total	*20,194*	*8.0*		H	M		VH				VH
A2 - Stone Wall	Rural	2,483	1.0									
not packed with mortar	Urban	369	0.1									
	Total	*2,852*	*1.1*		H	M		H				VH
Total - Category - A		*23,046*	*9.2*									
B - Burnt Bricks Wall	Rural	178,405	70.9									
& Stone wall packed	Urban	33,952	13.5									
with mortar	*Total*	*212,357*	*84.4*		M	L		H				H/M
Total - Category - B		*212,357*	*84.4*									
C1 - Concrete Wall	Rural	9,176	3.6									
	Urban	2,621	1.0									
	Total	*11,797*	*4.6*		L	VL		L				L/VL
C2 - Wood wall	Rural	294	0.1									
	Urban	50	-									
	Total	*344*	*0.1*		L	VL		VH				H
Total - Category - C		*12,141*	*4.8*									
X - Other Materials	Rural	3,728	1.5									
	Urban	365	0.1									
	Total	*4,093*	*1.6*		VL	VL		VH				VH
Total - Category - X		*4,093*	*1.6*									
TOTAL HOUSES*		**251,637**										

Wall / Roof		Census Houses										Flood Prone Area in %
		No. of Houses	%	V	IV	III	II	55 & 50	47	44 & 39	33	
ROOF												
R1 - Light Weight	Rural	24,502	9.7									
Sloping Roof	Urban	4,948	2.0									
	Total	*29,450*	*11.7*		M	L		VH				VH
R2 - Heavy Weight	Rural	97,017	38.6									
Sloping Roof	Urban	7,181	2.9									
	Total	*104,198*	*41.5*		M	L		H				H
R3 - Flat Roof	Rural	91,203	36.2									
	Urban	26,786	10.6									
	Total	*117,989*	*46.8*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**251,637**										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 mm

Housing Category : Wall Types

Category - A : Buildings in field-stone, rural structures, unburnt brick houses, clay houses

Category - B : Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone

Category - C : Reinforced building, well built wooden structures

Category - X : Other materials not covered in A,B,C. These are generally light.

Notes : 1. *Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and chocked drainage.*

   2. *Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building*

   3. *Source of Housing Data : Census of Housing, GOI, 2011*

Housing Category : Roof Type

Category - R1 - Light Weight (Grass, Thatch, Bamboo, Wood, Mud, Plastic, Polythene, GI Metal, Asbestos Sheets, Other Materials)

Category - R2 - Heavy Weight (Tiles, Stone/Slate)

Category - R3 - Flat Roof (Brick, Concrete)

EQ Zone V : Very High Damage Risk Zone (MSK > IX)

EQ Zone IV : High Damage Risk Zone (MSK VIII)

EQ Zone III : Moderate Damage Risk Zone (MSK VII)

EQ Zone II : Low Damage Risk Zone (MSK < VI)

Level of Risk : VH = Very High; H = High;
        M = Moderate; L = Low; VL = Very Low

* Total No.of Houses excluding Vacant/Locked Houses