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

Table No. : DL 02 **State : NCT OF DELHI** **NORTH**

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 %				
					100			100				
WALL												
A1 - Mud & *Unburnt Brick Wall*	Rural	61	-									
	Urban	3,417	1.3									
	Total	*3,478*	*1.3*		H			VH				
A2 - Stone Wall *not packed with mortar*	Rural	7	-									
	Urban	3,813	1.4									
	Total	*3,820*	*1.4*		H			H				
Total - Category - A		*7,298*	*2.7*									
B - Burnt Bricks Wall *& Stone wall packed* *with mortar*	Rural	3,312	1.2									
	Urban	242,528	90.7									
	Total	*245,840*	*91.9*		M			H				
Total - Category - B		*245,840*	*92.0*									
C1 - Concrete Wall	Rural	216	0.1									
	Urban	10,348	3.9									
	Total	*10,564*	*4.0*		L			L				
C2 - Wood wall	Rural		-									
	Urban	784	0.3									
	Total	*784*	*0.3*		L			VH				
Total - Category - C		*11,348*	*4.2*									
X - Other Materials	Rural	65	-									
	Urban	2,764	1.0									
	Total	*2,829*	*1.0*		VL			VH				
Total - Category - X		*2,829*	*1.1*									
TOTAL HOUSES*		**267,315**										
ROOF												
R1 - Light Weight **Sloping Roof**	Rural	229	0.1									
	Urban	16,074	6.0									
	Total	*16,303*	*6.1*		M			VH				
R2 - Heavy Weight **Sloping Roof**	Rural	1,997	0.7									
	Urban	110,540	41.4									
	Total	*112,537*	*42.1*		M			H				
R3 - Flat Roof	Rural	1,435	0.5									
	Urban	137,040	51.3									
	Total	*138,475*	*51.8*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**267,315**										

Probable Maximum Precipitation at a Station of the district in 24 hrs is   N.A. 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

bmtpc **Building Materials & Technology Promotion Council** **Peer Group, MoHUA, GOI**