

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

Table No. : DL 04

State : NCT OF DELHI

EAST

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	2	-										
	Urban	4,460	1.1										
	Total	4,462	1.1		H			VH					
A2 - Stone Wall not packed with mortar	Rural	3	-										
	Urban	3,386	0.8										
	Total	3,389	0.8		H			H					
Total - Category - A		7,851	1.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	952	0.2										
	Urban	378,682	89.8										
	Total	379,634	90.0		M			H					
Total - Category - B		379,634	90.0										
C1 - Concrete Wall	Rural	1	-										
	Urban	28,522	6.8										
	Total	28,523	6.8		L			L					
C2 - Wood wall	Rural		-										
	Urban	562	0.1										
	Total	562	0.1		L			VH					
Total - Category - C		29,085	6.9										
X - Other Materials	Rural	3	-										
	Urban	5,148	1.2										
	Total	5,151	1.2		VL			VH					
Total - Category - X		5,151	1.2										
TOTAL HOUSES*		421,721											

ROOF												
R1 - Light Weight Sloping Roof	Rural	10	-									
	Urban	17,306	4.1									
	Total	17,316	4.1		M			VH				
R2 - Heavy Weight Sloping Roof	Rural	27	-									
	Urban	47,006	11.1									
	Total	47,033	11.1		M			H				
R3 - Flat Roof	Rural	924	0.2									
	Urban	356,448	84.5									
	Total	357,372	84.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		421,721										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **537 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 choked 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