

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

Table No. : WB 16

State : WEST BENGAL

KOLKATA

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				72.3
WALL												
A1 - Mud & Unburnt Brick Wall	Rural		-									
	Urban	21,070	1.7									
	Total	21,070	1.7			M		VH				VH
A2 - Stone Wall not packed with mortar	Rural		-									
	Urban	15,488	1.3									
	Total	15,488	1.3			M		H				VH
Total - Category - A		36,558	3.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural		-									
	Urban	1,008,844	82.9									
	Total	1,008,844	82.9			L		H				H/M
Total - Category - B		1,008,844	82.9									
C1 - Concrete Wall	Rural		-									
	Urban	123,241	10.1									
	Total	123,241	10.1			VL		L				L/VL
C2 - Wood wall	Rural		-									
	Urban	3,847	0.3									
	Total	3,847	0.3			VL		VH				H
Total - Category - C		127,088	10.4									
X - Other Materials	Rural		-									
	Urban	44,488	3.7									
	Total	44,488	3.7			VL		VH				VH
Total - Category - X		44,488	3.7									
TOTAL HOUSES*		1,216,978										

ROOF												
R1 - Light Weight Sloping Roof	Rural		-									
	Urban	157,490	12.9									
	Total	157,490	12.9			L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural		-									
	Urban	307,347	25.3									
	Total	307,347	25.3			L		H				H
R3 - Flat Roof	Rural		-									
	Urban	752,141	61.8									
	Total	752,141	61.8	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,216,978										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **524 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