

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

Table No. : WB 15

State : WEST BENGAL

HAORA

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				100
WALL						100		100				100
A1 - Mud & Unburnt Brick Wall	Rural	93,935	7.4									
	Urban	57,290	4.5									
	Total	151,225	11.9			M		VH				VH
A2 - Stone Wall not packed with mortar	Rural	2,046	0.2									
	Urban	6,625	0.5									
	Total	8,671	0.7			M		H				VH
Total - Category - A		159,896	12.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	299,264	23.6									
	Urban	629,800	49.6									
	Total	929,064	73.2			L		H				H/M
Total - Category - B		929,064	73.1									
C1 - Concrete Wall	Rural	21,228	1.7									
	Urban	75,164	5.9									
	Total	96,392	7.6			VL		L				L/ VL
C2 - Wood wall	Rural	579	-									
	Urban	2,578	0.2									
	Total	3,157	0.2			VL		VH				H
Total - Category - C		99,549	7.8									
X - Other Materials	Rural	45,355	3.6									
	Urban	36,689	2.9									
	Total	82,044	6.5			VL		VH				VH
Total - Category - X		82,044	6.5									
TOTAL HOUSES*		1,270,553										

ROOF												
R1 - Light Weight Sloping Roof	Rural	64,782	5.1									
	Urban	57,655	4.5									
	Total	122,437	9.6			L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	257,395	20.3									
	Urban	339,453	26.7									
	Total	596,848	47.0			L		H				H
R3 - Flat Roof	Rural	140,230	11.0									
	Urban	411,038	32.4									
	Total	551,268	43.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,270,553										

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 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