

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

Table No. : WB 12

State : WEST BENGAL

HUGLI

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		95.4	4.6			94.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	356,100	23.0									
	Urban	31,463	2.0									
	Total	387,563	25.0			M		VH	H			VH
A2 - Stone Wall not packed with mortar	Rural	4,552	0.3									
	Urban	5,265	0.3									
	Total	9,817	0.6			M		H	M			VH
Total - Category - A		397,380	25.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	467,094	30.2									
	Urban	493,008	31.8									
	Total	960,102	62.0			L		H	M			H/M
Total - Category - B		960,102	62.0									
C1 - Concrete Wall	Rural	36,253	2.3									
	Urban	33,284	2.2									
	Total	69,537	4.5			VL		L	VL			L/VL
C2 - Wood wall	Rural	1,528	0.1									
	Urban	2,038	0.1									
	Total	3,566	0.2			VL		VH	H			H
Total - Category - C		73,103	4.7									
X - Other Materials	Rural	84,010	5.4									
	Urban	33,458	2.2									
	Total	117,468	7.6			VL		VH	H			VH
Total - Category - X		117,468	7.6									
TOTAL HOUSES*		1,548,053										

ROOF												
R1 - Light Weight Sloping Roof	Rural	339,837	22.0									
	Urban	56,037	3.6									
	Total	395,874	25.6			L		VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	304,610	19.7									
	Urban	211,585	13.7									
	Total	516,195	33.4			L		H	M			H
R3 - Flat Roof	Rural	305,090	19.7									
	Urban	330,894	21.4									
	Total	635,984	41.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,548,053										

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