

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

Table No. : WB 02

State : WEST BENGAL

JALPAIGURI

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 %					
				23.7	76.3					100			27.6
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	9,648	0.9										
	Urban	2,211	0.2										
	Total	11,859	1.1	VH	H				H			VH	
A2 - Stone Wall not packed with mortar	Rural	6,341	0.6										
	Urban	3,345	0.3										
	Total	9,686	0.9	VH	H				M			VH	
Total - Category - A		21,545	2.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	148,213	13.7										
	Urban	157,371	14.5										
	Total	305,584	28.2	H	M				M			H/M	
Total - Category - B		305,584	28.2										
C1 - Concrete Wall	Rural	22,727	2.1										
	Urban	19,915	1.8										
	Total	42,642	3.9	M	L				VL			L/VL	
C2 - Wood wall	Rural	36,830	3.4										
	Urban	12,825	1.2										
	Total	49,655	4.6	M	L				H			H	
Total - Category - C		92,297	8.5										
X - Other Materials	Rural	557,770	51.5										
	Urban	105,332	9.7										
	Total	663,102	61.2	M	VL				H			VH	
Total - Category - X		663,102	61.3										
TOTAL HOUSES*		1,082,528											

ROOF													
R1 - Light Weight Sloping Roof	Rural	750,130	69.3										
	Urban	230,433	21.3										
	Total	980,563	90.6	M	M				VH			VH	
R2 - Heavy Weight Sloping Roof	Rural	16,505	1.5										
	Urban	7,830	0.7										
	Total	24,335	2.2	H	M				M			H	
R3 - Flat Roof	Rural	14,894	1.4										
	Urban	62,736	5.8										
	Total	77,630	7.2	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		1,082,528											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **720 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