

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

Table No. : WB 11

State : WEST BENGAL

NORTH TWENTY FOUR PARGANAS

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 %					
					32.4	67.6			99.9	.1			74.7
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	233,479	8.6										
	Urban	40,987	1.5										
	Total	274,466	10.1		H	M		VH	H			VH	
A2 - Stone Wall not packed with mortar	Rural	5,494	0.2										
	Urban	15,000	0.6										
	Total	20,494	0.8		H	M		H	M			VH	
Total - Category - A		294,960	10.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	568,778	21.0										
	Urban	1,203,306	44.5										
	Total	1,772,084	65.5		M	L		H	M			H/M	
Total - Category - B		1,772,084	65.5										
C1 - Concrete Wall	Rural	31,161	1.2										
	Urban	107,813	4.0										
	Total	138,974	5.2		L	VL		L	VL			L/VL	
C2 - Wood wall	Rural	5,564	0.2										
	Urban	5,812	0.2										
	Total	11,376	0.4		L	VL		VH	H			H	
Total - Category - C		150,350	5.6										
X - Other Materials	Rural	325,766	12.0										
	Urban	162,623	6.0										
	Total	488,389	18.0		VL	VL		VH	H			VH	
Total - Category - X		488,389	18.0										
TOTAL HOUSES*		2,705,783											

ROOF													
R1 - Light Weight Sloping Roof	Rural	335,667	12.4										
	Urban	190,221	7.0										
	Total	525,888	19.4		M	L		VH	VH			VH	
R2 - Heavy Weight Sloping Roof	Rural	586,677	21.7										
	Urban	510,536	18.9										
	Total	1,097,213	40.6		M	L		H	M			H	
R3 - Flat Roof	Rural	247,898	9.2										
	Urban	834,784	30.9										
	Total	1,082,682	40.1	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		2,705,783											

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