

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

Table No. : WB 17

State : WEST BENGAL

SOUTH 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 %					
					85.2	14.8			100				26.7
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	603,957	28.9										
	Urban	62,111	3.0										
	Total	666,068	31.9		H	M		VH				VH	
A2 - Stone Wall not packed with mortar	Rural	4,240	0.2										
	Urban	3,944	0.2										
	Total	8,184	0.4		H	M		H				VH	
Total - Category - A		674,252	32.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	596,148	28.6										
	Urban	405,807	19.4										
	Total	1,001,955	48.0		M	L		H				H/M	
Total - Category - B		1,001,955	48.0										
C1 - Concrete Wall	Rural	38,703	1.9										
	Urban	45,866	2.2										
	Total	84,569	4.1		L	VL		L				L/VL	
C2 - Wood wall	Rural	3,888	0.2										
	Urban	2,184	0.1										
	Total	6,072	0.3		L	VL		VH				H	
Total - Category - C		90,641	4.3										
X - Other Materials	Rural	271,741	13.0										
	Urban	48,386	2.3										
	Total	320,127	15.3		VL	VL		VH				VH	
Total - Category - X		320,127	15.3										
TOTAL HOUSES*		2,086,975											

ROOF													
R1 - Light Weight Sloping Roof	Rural	707,711	33.9										
	Urban	132,544	6.4										
	Total	840,255	40.3		M	L		VH				VH	
R2 - Heavy Weight Sloping Roof	Rural	617,852	29.6										
	Urban	222,129	10.6										
	Total	839,981	40.2		M	L		H				H	
R3 - Flat Roof	Rural	193,114	9.3										
	Urban	213,625	10.2										
	Total	406,739	19.5	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		2,086,975											

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