

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

Table No. : WB 19

State : WEST BENGAL

PURBA MEDINIPUR

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		100				66.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	422,792	32.2									
	Urban	26,538	2.0									
	Total	449,330	34.2			M		VH				VH
A2 - Stone Wall not packed with mortar	Rural	3,804	0.3									
	Urban	808	0.1									
	Total	4,612	0.4			M		H				VH
Total - Category - A		453,942	34.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	443,645	33.8									
	Urban	104,556	8.0									
	Total	548,201	41.8			L		H				H/M
Total - Category - B		548,201	41.7									
C1 - Concrete Wall	Rural	29,166	2.2									
	Urban	6,774	0.5									
	Total	35,940	2.7			VL		L				L/VL
C2 - Wood wall	Rural	3,222	0.2									
	Urban	792	0.1									
	Total	4,014	0.3			VL		VH				H
Total - Category - C		39,954	3.0									
X - Other Materials	Rural	255,017	19.4									
	Urban	16,106	1.2									
	Total	271,123	20.6			VL		VH				VH
Total - Category - X		271,123	20.6									
TOTAL HOUSES*		1,313,220										

ROOF												
R1 - Light Weight Sloping Roof	Rural	382,663	29.1									
	Urban	23,530	1.8									
	Total	406,193	30.9			L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	611,890	46.6									
	Urban	61,596	4.7									
	Total	673,486	51.3			L		H				H
R3 - Flat Roof	Rural	163,093	12.4									
	Urban	70,448	5.4									
	Total	233,541	17.8	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,313,220										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **704 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