

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

**Table No. : WB 07**

**State : WEST BENGAL**

**MURSHIDABAD**

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			84.4
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	439,936	24.4									
	Urban	30,669	1.7									
	Total	470,605	26.1			M			H			VH
A2 - Stone Wall not packed with mortar	Rural	4,505	0.2									
	Urban	1,233	0.1									
	Total	5,738	0.3			M			M			VH
Total - Category - A		476,343	26.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	662,453	36.7									
	Urban	262,252	14.5									
	Total	924,705	51.2			L			M			H/M
Total - Category - B		924,705	51.3									
C1 - Concrete Wall	Rural	26,166	1.5									
	Urban	13,898	0.8									
	Total	40,064	2.3			VL			VL			L/VL
C2 - Wood wall	Rural	2,470	0.1									
	Urban	1,167	0.1									
	Total	3,637	0.2			VL			H			H
Total - Category - C		43,701	2.4									
X - Other Materials	Rural	332,156	18.4									
	Urban	26,175	1.5									
	Total	358,331	19.9			VL			H			VH
Total - Category - X		358,331	19.9									
TOTAL HOUSES*		1,803,080										
ROOF												
R1 - Light Weight Sloping Roof	Rural	525,453	29.1									
	Urban	37,076	2.1									
	Total	562,529	31.2			L			VH			VH
R2 - Heavy Weight Sloping Roof	Rural	599,675	33.3									
	Urban	141,968	7.9									
	Total	741,643	41.2			L			M			H
R3 - Flat Roof	Rural	342,558	19.0									
	Urban	156,350	8.7									
	Total	498,908	27.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,803,080										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **690 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