

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

**Table No. : WB 06**

**State : WEST BENGAL**

**MALDAH**

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 %					
					92.4	7.6				100			69.1
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	296,373	31.6										
	Urban	12,524	1.3										
	Total	308,897	32.9		H	M			H				VH
A2 - Stone Wall not packed with mortar	Rural	1,862	0.2										
	Urban	620	0.1										
	Total	2,482	0.3		H	M			M				VH
Total - Category - A		311,379	33.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	301,564	32.2										
	Urban	91,096	9.7										
	Total	392,660	41.9		M	L			M				H/M
Total - Category - B		392,660	41.9										
C1 - Concrete Wall	Rural	8,751	0.9										
	Urban	4,932	0.5										
	Total	13,683	1.4		L	VL			VL				L/VL
C2 - Wood wall	Rural	3,931	0.4										
	Urban	557	0.1										
	Total	4,488	0.5		L	VL			H				H
Total - Category - C		18,171	1.9										
X - Other Materials	Rural	201,087	21.5										
	Urban	13,802	1.5										
	Total	214,889	23.0		VL	VL			H				VH
Total - Category - X		214,889	22.9										
TOTAL HOUSES*		937,099											

ROOF													
R1 - Light Weight Sloping Roof	Rural	235,864	25.2										
	Urban	17,632	1.9										
	Total	253,496	27.1		M	L			VH				VH
R2 - Heavy Weight Sloping Roof	Rural	479,323	51.1										
	Urban	54,164	5.8										
	Total	533,487	56.9		M	L			M				H
R3 - Flat Roof	Rural	98,381	10.5										
	Urban	51,735	5.5										
	Total	150,116	16.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		937,099											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **694 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