

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

**Table No. : WB 02**

**State : WEST BENGAL**

**JALPAIGURI**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s			Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39		
				Area in %		Area in %			100		27.6	
<b>WALL</b>				23.7	76.3							
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	9,648	0.9									
	Urban	2,211	0.2									
	<b>Total</b>	<b>11,859</b>	<b>1.1</b>	VH	H					H		VH
<b>A2 - Stone Wall not packed with mortar</b>	Rural	6,341	0.6									
	Urban	3,345	0.3									
	<b>Total</b>	<b>9,686</b>	<b>0.9</b>	VH	H					M		VH
<b>Total - Category - A</b>		<b>21,545</b>	<b>2.0</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	148,213	13.7									
	Urban	157,371	14.5									
	<b>Total</b>	<b>305,584</b>	<b>28.2</b>	H	M					M		H/M
<b>Total - Category - B</b>		<b>305,584</b>	<b>28.2</b>									
<b>C1 - Concrete Wall</b>	Rural	22,727	2.1									
	Urban	19,915	1.8									
	<b>Total</b>	<b>42,642</b>	<b>3.9</b>	M	L					VL		L/ VL
<b>C2 - Wood wall</b>	Rural	36,830	3.4									
	Urban	12,825	1.2									
	<b>Total</b>	<b>49,655</b>	<b>4.6</b>	M	L					H		H
<b>Total - Category - C</b>		<b>92,297</b>	<b>8.5</b>									
<b>X - Other Materials</b>	Rural	557,770	51.5									
	Urban	105,332	9.7									
	<b>Total</b>	<b>663,102</b>	<b>61.2</b>	M	VL					H		VH
<b>Total - Category - X</b>		<b>663,102</b>	<b>61.3</b>									
<b>TOTAL HOUSES*</b>		<b>1,082,528</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	750,130	69.3									
	Urban	230,433	21.3									
	<b>Total</b>	<b>980,563</b>	<b>90.6</b>	M	M					VH		VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	16,505	1.5									
	Urban	7,830	0.7									
	<b>Total</b>	<b>24,335</b>	<b>2.2</b>	H	M					M		H
<b>R3 - Flat Roof</b>	Rural	14,894	1.4									
	Urban	62,736	5.8									
	<b>Total</b>	<b>77,630</b>	<b>7.2</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>1,082,528</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 720 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 chocked 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