

## 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								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %		Area in %						26.7
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	603,957	28.9									
	Urban	62,111	3.0									
	<b>Total</b>	<b>666,068</b>	<b>31.9</b>		<i>H</i>	<i>M</i>		<i>VH</i>				<i>VH</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	4,240	0.2									
	Urban	3,944	0.2									
	<b>Total</b>	<b>8,184</b>	<b>0.4</b>		<i>H</i>	<i>M</i>		<i>H</i>				<i>VH</i>
<b>Total - Category - A</b>		<b>674,252</b>	<b>32.3</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	596,148	28.6									
	Urban	405,807	19.4									
	<b>Total</b>	<b>1,001,955</b>	<b>48.0</b>		<i>M</i>	<i>L</i>		<i>H</i>				<i>H/M</i>
<b>Total - Category - B</b>		<b>1,001,955</b>	<b>48.0</b>									
<b>C1 - Concrete Wall</b>	Rural	38,703	1.9									
	Urban	45,866	2.2									
	<b>Total</b>	<b>84,569</b>	<b>4.1</b>		<i>L</i>	<i>VL</i>		<i>L</i>				<i>L/ VL</i>
<b>C2 - Wood wall</b>	Rural	3,888	0.2									
	Urban	2,184	0.1									
	<b>Total</b>	<b>6,072</b>	<b>0.3</b>		<i>L</i>	<i>VL</i>		<i>VH</i>				<i>H</i>
<b>Total - Category - C</b>		<b>90,641</b>	<b>4.3</b>									
<b>X - Other Materials</b>	Rural	271,741	13.0									
	Urban	48,386	2.3									
	<b>Total</b>	<b>320,127</b>	<b>15.3</b>		<i>VL</i>	<i>VL</i>		<i>VH</i>				<i>VH</i>
<b>Total - Category - X</b>		<b>320,127</b>	<b>15.3</b>									
<b>TOTAL HOUSES*</b>		<b>2,086,975</b>										

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

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 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