

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

Table No. : WB 14

State : WEST BENGAL

PURULIYA

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 %							
						29.8	70.2			74.7	25.3	7.0			
WALL															
A1 - Mud & Unburnt Brick Wall	Rural	431,536	60.5												
	Urban	25,698	3.6												
	Total	457,234	64.1					<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>			
A2 - Stone Wall not packed with mortar	Rural	2,867	0.4												
	Urban	1,581	0.2												
	Total	4,448	0.6					<i>M</i>	<i>L</i>		<i>M</i>	<i>L</i>			
Total - Category - A		461,682	64.7												
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	158,484	22.2												
	Urban	55,182	7.7												
	Total	213,666	29.9					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>			
Total - Category - B		213,666	30.0												
C1 - Concrete Wall	Rural	10,259	1.4												
	Urban	7,280	1.0												
	Total	17,539	2.4					<i>VL</i>	<i>VL</i>		<i>VL</i>	<i>VL</i>			
C2 - Wood wall	Rural	780	0.1												
	Urban	223	-												
	Total	1,003	0.1					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>			
Total - Category - C		18,542	2.6												
X - Other Materials	Rural	17,538	2.5												
	Urban	1,638	0.2												
	Total	19,176	2.7					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>			
Total - Category - X		19,176	2.7												
TOTAL HOUSES*		713,066													

ROOF												
R1 - Light Weight Sloping Roof	Rural	167,294	23.5									
	Urban	18,878	2.6									
	Total	186,172	26.1					<i>L</i>	<i>VL</i>		<i>VH</i>	<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	364,032	51.1									
	Urban	31,185	4.4									
	Total	395,217	55.5					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>
R3 - Flat Roof	Rural	90,138	12.6									
	Urban	41,539	5.8									
	Total	131,677	18.4					Damage Risk as per that for the Wall supporting it				
TOTAL HOUSES*		713,066										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 653 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