

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

Table No. : WB 09

State : WEST BENGAL

BARDDHAMAN

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		10.5	45.4			62.8
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	668,913	31.8									
	Urban	132,412	6.3									
	Total	801,325	38.1			M		VH	H			VH
A2 - Stone Wall not packed with mortar	Rural	5,874	0.3									
	Urban	6,899	0.3									
	Total	12,773	0.6			M		H	M			VH
Total - Category - A		814,098	38.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	421,311	20.0									
	Urban	543,571	25.8									
	Total	964,882	45.8			L		H	M			H/M
Total - Category - B		964,882	45.8									
C1 - Concrete Wall	Rural	42,695	2.0									
	Urban	71,759	3.4									
	Total	114,454	5.4			VL		L	VL			L/VL
C2 - Wood wall	Rural	2,115	0.1									
	Urban	2,404	0.1									
	Total	4,519	0.2			VL		VH	H			H
Total - Category - C		118,973	5.6									
X - Other Materials	Rural	167,450	7.9									
	Urban	41,109	2.0									
	Total	208,559	9.9			VL		VH	H			VH
Total - Category - X		208,559	9.9									
TOTAL HOUSES*		2,106,512										

ROOF												
R1 - Light Weight Sloping Roof	Rural	843,091	40.0									
	Urban	167,790	8.0									
	Total	1,010,881	48.0			L		VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	182,403	8.7									
	Urban	196,838	9.3									
	Total	379,241	18.0			L		H	M			H
R3 - Flat Roof	Rural	282,864	13.4									
	Urban	433,526	20.6									
	Total	716,390	34.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		2,106,512										

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 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