

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

Table No. : WB 13

State : WEST BENGAL

BANKURA

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 %				
						80.1	19.9	1.7	98.3			7.3
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	532,864	56.5									
	Urban	18,574	2.0									
	Total	551,438	58.5			M	L	VH	H			VH
A2 - Stone Wall not packed with mortar	Rural	2,888	0.3									
	Urban	563	0.1									
	Total	3,451	0.4			M	L	H	M			VH
Total - Category - A		554,889	58.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	247,143	26.2									
	Urban	57,831	6.1									
	Total	304,974	32.3			L	VL	H	M			H/M
Total - Category - B		304,974	32.3									
C1 - Concrete Wall	Rural	16,237	1.7									
	Urban	4,520	0.5									
	Total	20,757	2.2			VL	VL	L	VL			L/VL
C2 - Wood wall	Rural	1,053	0.1									
	Urban	543	0.1									
	Total	1,596	0.2			VL	VL	VH	H			H
Total - Category - C		22,353	2.4									
X - Other Materials	Rural	58,283	6.2									
	Urban	2,618	0.3									
	Total	60,901	6.5			VL	VL	VH	H			VH
Total - Category - X		60,901	6.5									
TOTAL HOUSES*		943,117										

ROOF												
R1 - Light Weight Sloping Roof	Rural	568,468	60.3									
	Urban	21,926	2.3									
	Total	590,394	62.6			L	VL	VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	120,832	12.8									
	Urban	12,343	1.3									
	Total	133,175	14.1			L	VL	H	M			H
R3 - Flat Roof	Rural	169,168	17.9									
	Urban	50,380	5.3									
	Total	219,548	23.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		943,117										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **664 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