

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

Table No. : WB 08

State : WEST BENGAL

BIRBHUM

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			100			52.4
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	536,452	57.9									
	Urban	35,084	3.8									
	Total	571,536	61.7			M			H			VH
A2 - Stone Wall not packed with mortar	Rural	1,966	0.2									
	Urban	817	0.1									
	Total	2,783	0.3			M			M			VH
Total - Category - A		574,319	62.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	188,029	20.3									
	Urban	78,598	8.5									
	Total	266,627	28.8			L			M			H/M
Total - Category - B		266,627	28.8									
C1 - Concrete Wall	Rural	11,477	1.2									
	Urban	3,279	0.4									
	Total	14,756	1.6			VL			VL			L/VL
C2 - Wood wall	Rural	736	0.1									
	Urban	448	-									
	Total	1,184	0.1			VL			H			H
Total - Category - C		15,940	1.7									
X - Other Materials	Rural	62,587	6.8									
	Urban	6,854	0.7									
	Total	69,441	7.5			VL			H			VH
Total - Category - X		69,441	7.5									
TOTAL HOUSES*		926,327										

ROOF												
R1 - Light Weight Sloping Roof	Rural	638,848	69.0									
	Urban	45,939	5.0									
	Total	684,787	74.0			L			VH			VH
R2 - Heavy Weight Sloping Roof	Rural	40,615	4.4									
	Urban	10,889	1.2									
	Total	51,504	5.6			L			M			H
R3 - Flat Roof	Rural	121,784	13.1									
	Urban	68,252	7.4									
	Total	190,036	20.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		926,327										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **684 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