

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

Table No. : MG 01

State : MEGHALAYA

WEST GARO HILLS

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					89.1	10.9				
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	14,900	9.7											
	Urban	454	0.3											
	Total	15,354	10.0	VH					VH	H				
A2 - Stone Wall not packed with mortar	Rural	875	0.6											
	Urban	331	0.2											
	Total	1,206	0.8	VH					H	M				
Total - Category - A		16,560	10.7											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	19,315	12.5											
	Urban	6,638	4.3											
	Total	25,953	16.8	H					H	M				
Total - Category - B		25,953	16.8											
C1 - Concrete Wall	Rural	1,951	1.3											
	Urban	2,127	1.4											
	Total	4,078	2.7	M					L	VL				
C2 - Wood wall	Rural	1,600	1.0											
	Urban	239	0.2											
	Total	1,839	1.2	M					VH	H				
Total - Category - C		5,917	3.8											
X - Other Materials	Rural	98,110	63.6											
	Urban	7,756	5.0											
	Total	105,866	68.6	M					VH	H				
Total - Category - X		105,866	68.6											
TOTAL HOUSES*		154,296												

ROOF												
R1 - Light Weight Sloping Roof	Rural	132,185	85.7									
	Urban	13,096	8.5									
	Total	145,281	94.2	M				VH	VH			
R2 - Heavy Weight Sloping Roof	Rural	3,066	2.0									
	Urban	659	0.4									
	Total	3,725	2.4	H				H	M			
R3 - Flat Roof	Rural	1,500	1.0									
	Urban	3,790	2.5									
	Total	5,290	3.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		154,296										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 680 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