

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

Table No. : MG 02

State : MEGHALAYA

EAST 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					98.3	1.7			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	1,307	1.8										
	Urban	153	0.2										
	Total	1,460	2.0	VH				VH	H				
A2 - Stone Wall not packed with mortar	Rural	403	0.6										
	Urban	129	0.2										
	Total	532	0.8	VH				H	M				
Total - Category - A		1,992	2.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	6,518	9.1										
	Urban	2,805	3.9										
	Total	9,323	13.0	H				H	M				
Total - Category - B		9,323	12.9										
C1 - Concrete Wall	Rural	679	0.9										
	Urban	600	0.8										
	Total	1,279	1.7	M				L	VL				
C2 - Wood wall	Rural	619	0.9										
	Urban	90	0.1										
	Total	709	1.0	M				VH	H				
Total - Category - C		1,988	2.8										
X - Other Materials	Rural	52,027	72.2										
	Urban	6,684	9.3										
	Total	58,711	81.5	M				VH	H				
Total - Category - X		58,711	81.5										
TOTAL HOUSES*		72,014											

ROOF												
R1 - Light Weight Sloping Roof	Rural	60,218	83.6									
	Urban	9,878	13.7									
	Total	70,096	97.3	M				VH	VH			
R2 - Heavy Weight Sloping Roof	Rural	984	1.4									
	Urban	189	0.3									
	Total	1,173	1.7	H				H	M			
R3 - Flat Roof	Rural	351	0.5									
	Urban	394	0.5									
	Total	745	1.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		72,014										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 600 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