

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

Table No. : MG 06

State : MEGHALAYA

EAST KHASI HILLS

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
				100				100				
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	3,919	2.0									
	Urban	3,684	1.9									
	Total	7,603	3.9	VH				VH				
A2 - Stone Wall not packed with mortar	Rural	3,520	1.8									
	Urban	2,274	1.2									
	Total	5,794	3.0	VH				H				
Total - Category - A		13,397	6.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	17,559	8.9									
	Urban	18,196	9.2									
	Total	35,755	18.1	H				H				
Total - Category - B		35,755	18.1									
C1 - Concrete Wall	Rural	14,582	7.4									
	Urban	48,091	24.3									
	Total	62,673	31.7	M				L				
C2 - Wood wall	Rural	36,790	18.6									
	Urban	16,713	8.5									
	Total	53,503	27.1	M				VH				
Total - Category - C		116,176	58.8									
X - Other Materials	Rural	23,877	12.1									
	Urban	8,373	4.2									
	Total	32,250	16.3	M				VH				
Total - Category - X		32,250	16.3									
TOTAL HOUSES*		197,578										

ROOF												
R1 - Light Weight Sloping Roof	Rural	87,208	44.1									
	Urban	49,990	25.3									
	Total	137,198	69.4	M				VH				
R2 - Heavy Weight Sloping Roof	Rural	2,157	1.1									
	Urban	2,740	1.4									
	Total	4,897	2.5	H				H				
R3 - Flat Roof	Rural	10,882	5.5									
	Urban	44,601	22.6									
	Total	55,483	28.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		197,578										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 1560 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