

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

Table No. : MN 02

State : MANIPUR

TAMENGLONG

Wall / Roof		Census Houses		Level of Risk under								Flood Pron e Area	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
				100					81.0		19.0		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	7,474	27.0										
	Urban	1,197	4.3										
	Total	8,671	31.3	VH				VH		M			
A2 - Stone Wall not packed with mortar	Rural	31	0.1										
	Urban	17	0.1										
	Total	48	0.2	VH				H		L			
Total - Category - A		8,719	31.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	450	1.6										
	Urban	599	2.2										
	Total	1,049	3.8	H				H		L			
Total - Category - B		1,049	3.8										
C1 - Concrete Wall	Rural	32	0.1										
	Urban	46	0.2										
	Total	78	0.3	M				L		VL			
C2 - Wood wall	Rural	3,351	12.1										
	Urban	1,117	4.0										
	Total	4,468	16.1	M				VH		M			
Total - Category - C		4,546	16.4										
X - Other Materials	Rural	12,446	44.9										
	Urban	953	3.4										
	Total	13,399	48.3	M				VH		M			
Total - Category - X		13,399	48.3										
TOTAL HOUSES*		27,713											

ROOF												
R1 - Light Weight Sloping Roof	Rural	23,227	83.8									
	Urban	3,586	12.9									
	Total	26,813	96.7	M				VH		H		
R2 - Heavy Weight Sloping Roof	Rural	433	1.6									
	Urban	184	0.7									
	Total	617	2.3	H				H		L		
R3 - Flat Roof	Rural	124	0.4									
	Urban	159	0.6									
	Total	283	1.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		27,713										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 760 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