

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

Table No. : MN 01

State : MANIPUR

SENAPATI

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Pron e Area
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
				100				.6		99.4		.0
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	23,813	60.2									
	Urban	696	1.8									
	Total	24,509	62.0	VH				VH		M		VH
A2 - Stone Wall not packed with mortar	Rural	1,139	2.9									
	Urban	10	-									
	Total	1,149	2.9	VH				H		L		VH
Total - Category - A		25,658	64.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,547	3.9									
	Urban	430	1.1									
	Total	1,977	5.0	H				H		L		H/M
Total - Category - B		1,977	5.0									
C1 - Concrete Wall	Rural	44	0.1									
	Urban	17	-									
	Total	61	0.1	M				L		VL		L/VL
C2 - Wood wall	Rural	2,905	7.3									
	Urban	409	1.0									
	Total	3,314	8.3	M				VH		M		H
Total - Category - C		3,375	8.5									
X - Other Materials	Rural	8,289	21.0									
	Urban	228	0.6									
	Total	8,517	21.6	M				VH		M		VH
Total - Category - X		8,517	21.5									
TOTAL HOUSES*		39,527										
ROOF												
R1 - Light Weight Sloping Roof	Rural	36,747	93.0									
	Urban	1,599	4.0									
	Total	38,346	97.0	M				VH		H		VH
R2 - Heavy Weight Sloping Roof	Rural	705	1.8									
	Urban	10	-									
	Total	715	1.8	H				H		L		H
R3 - Flat Roof	Rural	285	0.7									
	Urban	181	0.5									
	Total	466	1.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		39,527										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 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