

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

Table No. : NG 03

State : NAGALAND

ZUNHEBOTO

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							100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	153	0.4										
	Urban	44	0.1										
	Total	197	0.5	VH							M		
A2 - Stone Wall not packed with mortar	Rural	76	0.2										
	Urban	36	0.1										
	Total	112	0.3	VH							L		
Total - Category - A		309	0.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,772	4.9										
	Urban	779	2.2										
	Total	2,551	7.1	H							L		
Total - Category - B		2,551	7.1										
C1 - Concrete Wall	Rural	391	1.1										
	Urban	1,479	4.1										
	Total	1,870	5.2	M							VL		
C2 - Wood wall	Rural	14,127	39.3										
	Urban	1,864	5.2										
	Total	15,991	44.5	M							M		
Total - Category - C		17,861	49.7										
X - Other Materials	Rural	13,767	38.3										
	Urban	1,440	4.0										
	Total	15,207	42.3	M							M		
Total - Category - X		15,207	42.3										
TOTAL HOUSES*		35,928											

ROOF												
R1 - Light Weight Sloping Roof	Rural	29,535	82.2									
	Urban	4,337	12.1									
	Total	33,872	94.3	M						H		
R2 - Heavy Weight Sloping Roof	Rural	449	1.2									
	Urban	120	0.3									
	Total	569	1.5	H						L		
R3 - Flat Roof	Rural	302	0.8									
	Urban	1,185	3.3									
	Total	1,487	4.1									
				<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		35,928										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 400 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