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

Table No. : NG 08 **State : NAGALAND** **LONGLENG**

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				5.7		94.3		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	50	0.4									
	Urban	10	0.1									
	Total	**60**	**0.5**	VH				VH		M		
A2 - Stone Wall not packed with mortar	Rural	24	0.2									
	Urban	3	-									
	Total	**27**	**0.2**	VH				H		L		
Total - Category - A		**87**	**0.7**									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	320	2.4									
	Urban	451	3.4									
	Total	**771**	**5.8**	H				H		L		
Total - Category - B		**771**	**5.8**									
C1 - Concrete Wall	Rural	121	0.9									
	Urban	44	0.3									
	Total	**165**	**1.2**	M				L		VL		
C2 - Wood wall	Rural	1,760	13.2									
	Urban	658	4.9									
	Total	**2,418**	**18.1**	M				VH		M		
Total - Category - C		**2,583**	**19.4**									
X - Other Materials	Rural	8,993	67.4									
	Urban	904	6.8									
	Total	**9,897**	**74.2**	M				VH		M		
Total - Category - X		**9,897**	**74.2**									
TOTAL HOUSES*		**13,338**										
ROOF												
R1 - Light Weight Sloping Roof	Rural	11,089	83.1									
	Urban	1,786	13.4									
	Total	**12,875**	**96.5**	M				VH		H		
R2 - Heavy Weight Sloping Roof	Rural	66	0.5									
	Urban	61	0.5									
	Total	**127**	**1.0**	H				H		L		
R3 - Flat Roof	Rural	113	0.8									
	Urban	223	1.7									
	Total	**336**	**2.5**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**13,338**										

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 chocked 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