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

Table No. : NG 09   **State : NAGALAND**   **KIPHIRE**

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 &	Rural	63	0.3									
Unburnt Brick Wall	Urban	61	0.3									
	Total	**124**	**0.6**	VH						M		
A2 - Stone Wall	Rural	10	0.1									
not packed with mortar	Urban	16	0.1									
	Total	**26**	**0.2**	VH						L		
Total - Category - A		**150**	**0.8**									
B - Burnt Bricks Wall	Rural	137	0.7									
& Stone wall packed	Urban	231	1.2									
with mortar	*Total*	**368**	**1.9**	H						L		
Total - Category - B		**368**	**1.9**									
C1 - Concrete Wall	Rural	69	0.4									
	Urban	196	1.0									
	Total	**265**	**1.4**	M						VL		
C2 - Wood wall	Rural	10,104	53.3									
	Urban	2,008	10.6									
	Total	**12,112**	**63.9**	M						M		
Total - Category - C		**12,377**	**65.3**									
X - Other Materials	Rural	5,027	26.5									
	Urban	1,025	5.4									
	Total	**6,052**	**31.9**	M						M		
Total - Category - X		**6,052**	**31.9**									
TOTAL HOUSES*		**18,947**										
ROOF												
R1 - Light Weight	Rural	15,179	80.1									
Sloping Roof	Urban	3,330	17.6									
	Total	**18,509**	**97.7**	M						H		
R2 - Heavy Weight	Rural	167	0.9									
Sloping Roof	Urban	30	0.2									
	Total	**197**	**1.1**	H						L		
R3 - Flat Roof	Rural	64	0.3									
	Urban	177	0.9									
	Total	**241**	**1.2**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**18,947**										

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