

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

Table No. : AR 08

State : ARUNACHAL PRADESH

UPPER SIANG

Wall / Roof		Census Houses		Level of Risk under										
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %		
				V	IV	III	II	55 & 50	47	44 & 39	33			
				Area in %				Area in %						
		100						100						
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	150	1.5											
	Urban	68	0.7											
	Total	218	2.2	VH								<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	25	0.3											
	Urban	82	0.8											
	Total	107	1.1	VH								<i>L</i>		
Total - Category - A		325	3.3											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	271	2.8											
	Urban	183	1.9											
	Total	454	4.7	H								<i>L</i>		
Total - Category - B		454	4.7											
C1 - Concrete Wall	Rural	523	5.4											
	Urban	529	5.5											
	Total	1,052	10.9	M								<i>VL</i>		
C2 - Wood wall	Rural	3,852	39.7											
	Urban	139	1.4											
	Total	3,991	41.1	M								<i>M</i>		
Total - Category - C		5,043	52.0											
X - Other Materials	Rural	2,828	29.1											
	Urban	1,053	10.9											
	Total	3,881	40.0	M								<i>M</i>		
Total - Category - X		3,881	40.0											
TOTAL HOUSES*		9,703												
ROOF														
R1 - Light Weight Sloping Roof	Rural	7,551	77.8											
	Urban	1,875	19.3											
	Total	9,426	97.1	M								<i>M</i>		
R2 - Heavy Weight Sloping Roof	Rural	11	0.1											
	Urban	29	0.3											
	Total	40	0.4	M								<i>H</i>		
R3 - Flat Roof	Rural	87	0.9											
	Urban	150	1.5											
	Total	237	2.4	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		9,703												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 541 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