

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

Table No. : AR 06

State : ARUNACHAL PRADESH

WEST 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						3.8		96.2				
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	293	1.1											
	Urban	35	0.1											
	Total	328	1.2	VH					VH		M			
A2 - Stone Wall not packed with mortar	Rural	50	0.2											
	Urban	305	1.1											
	Total	355	1.3	VH					H		L			
Total - Category - A		683	2.5											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	691	2.5											
	Urban	1,015	3.7											
	Total	1,706	6.2	H					H		L			
Total - Category - B		1,706	6.2											
C1 - Concrete Wall	Rural	1,073	3.9											
	Urban	1,656	6.0											
	Total	2,729	9.9	M					L		VL			
C2 - Wood wall	Rural	4,248	15.5											
	Urban	500	1.8											
	Total	4,748	17.3	M					VH		M			
Total - Category - C		7,477	27.2											
X - Other Materials	Rural	13,932	50.8											
	Urban	3,652	13.3											
	Total	17,584	64.1	M					VH		M			
Total - Category - X		17,584	64.1											
TOTAL HOUSES*		27,450												
ROOF														
R1 - Light Weight Sloping Roof	Rural	19,862	72.4											
	Urban	5,578	20.3											
	Total	25,440	92.7	M					VH		M			
R2 - Heavy Weight Sloping Roof	Rural	133	0.5											
	Urban	197	0.7											
	Total	330	1.2	M					VH		H			
R3 - Flat Roof	Rural	292	1.1											
	Urban	1,388	5.1											
	Total	1,680	6.2	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		27,450												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 517 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