

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

Table No. : AR 02

State : ARUNACHAL PRADESH

WEST KAMENG

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	672	3.3									
	Urban	252	1.2									
	Total	924	4.5	VH						M		
A2 - Stone Wall not packed with mortar	Rural	1,679	8.2									
	Urban	165	0.8									
	Total	1,844	9.0	VH						L		
Total - Category - A		2,768	13.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,712	8.3									
	Urban	894	4.4									
	Total	2,606	12.7	H						L		
Total - Category - B		2,606	12.7									
C1 - Concrete Wall	Rural	1,626	7.9									
	Urban	1,654	8.1									
	Total	3,280	16.0	M						VL		
C2 - Wood wall	Rural	3,574	17.4									
	Urban	430	2.1									
	Total	4,004	19.5	M						M		
Total - Category - C		7,284	35.5									
X - Other Materials	Rural	5,866	28.6									
	Urban	2,018	9.8									
	Total	7,884	38.4	M						M		
Total - Category - X		7,884	38.4									
TOTAL HOUSES*		20,542										

ROOF												
R1 - Light Weight Sloping Roof	Rural	14,705	71.6									
	Urban	4,300	20.9									
	Total	19,005	92.5	M						M		
R2 - Heavy Weight Sloping Roof	Rural	80	0.4									
	Urban	13	0.1									
	Total	93	0.5	M						H		
R3 - Flat Roof	Rural	344	1.7									
	Urban	1,100	5.4									
	Total	1,444	7.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		20,542										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **502 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