

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

Table No. : AR 12

State : ARUNACHAL PRADESH

KURUNG KUMEY

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	40	0.2											
	Urban	52	0.3											
	Total	92	0.5	VH								<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	37	0.2											
	Urban	19	0.1											
	Total	56	0.3	VH								<i>L</i>		
Total - Category - A		148	0.8											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	323	1.7											
	Urban	85	0.5											
	Total	408	2.2	H								<i>L</i>		
Total - Category - B		408	2.2											
C1 - Concrete Wall	Rural	166	0.9											
	Urban	43	0.2											
	Total	209	1.1	M								<i>VL</i>		
C2 - Wood wall	Rural	708	3.8											
	Urban	143	0.8											
	Total	851	4.6	M								<i>M</i>		
Total - Category - C		1,060	5.7											
X - Other Materials	Rural	16,431	89.0											
	Urban	420	2.3											
	Total	16,851	91.3	M								<i>M</i>		
Total - Category - X		16,851	91.2											
TOTAL HOUSES*		18,467												
ROOF														
R1 - Light Weight Sloping Roof	Rural	17,075	92.5											
	Urban	692	3.7											
	Total	17,767	96.2	M								<i>M</i>		
R2 - Heavy Weight Sloping Roof	Rural	560	3.0											
	Urban	49	0.3											
	Total	609	3.3	M								<i>H</i>		
R3 - Flat Roof	Rural	70	0.4											
	Urban	21	0.1											
	Total	91	0.5	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		18,467												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 512 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