

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

Table No. : AR 03

State : ARUNACHAL PRADESH

EAST KAMENG

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	278	1.5											
	Urban	493	2.7											
	Total	771	4.2	VH								<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	69	0.4											
	Urban	59	0.3											
	Total	128	0.7	VH								<i>L</i>		
Total - Category - A		899	4.9											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	330	1.8											
	Urban	520	2.9											
	Total	850	4.7	H								<i>L</i>		
Total - Category - B		850	4.7											
C1 - Concrete Wall	Rural	364	2.0											
	Urban	1,073	5.9											
	Total	1,437	7.9	M								<i>VL</i>		
C2 - Wood wall	Rural	987	5.4											
	Urban	375	2.1											
	Total	1,362	7.5	M								<i>M</i>		
Total - Category - C		2,799	15.4											
X - Other Materials	Rural	11,554	63.6											
	Urban	2,071	11.4											
	Total	13,625	75.0	M								<i>M</i>		
Total - Category - X		13,625	75.0											
TOTAL HOUSES*		18,173												
ROOF														
R1 - Light Weight Sloping Roof	Rural	13,301	73.2											
	Urban	3,874	21.3											
	Total	17,175	94.5	M								<i>M</i>		
R2 - Heavy Weight Sloping Roof	Rural	203	1.1											
	Urban	129	0.7											
	Total	332	1.8	M								<i>H</i>		
R3 - Flat Roof	Rural	78	0.4											
	Urban	588	3.2											
	Total	666	3.6					Damage Risk as per that for the Wall supporting it						
TOTAL HOUSES*		18,173												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 454 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