

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

Table No. : AR 09

State : ARUNACHAL PRADESH

CHANGLANG

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					2.1		97.9			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	354	0.9										
	Urban	70	0.2										
	Total	424	1.1	<i>VH</i>					<i>VH</i>		<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	117	0.3										
	Urban	25	0.1										
	Total	142	0.4	<i>VH</i>					<i>H</i>		<i>L</i>		
Total - Category - A		566	1.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,680	4.5										
	Urban	1,117	3.0										
	Total	2,797	7.5	<i>H</i>					<i>H</i>		<i>L</i>		
Total - Category - B		2,797	7.5										
C1 - Concrete Wall	Rural	851	2.3										
	Urban	505	1.3										
	Total	1,356	3.6	<i>M</i>					<i>L</i>		<i>VL</i>		
C2 - Wood wall	Rural	1,519	4.1										
	Urban	900	2.4										
	Total	2,419	6.5	<i>M</i>					<i>VH</i>		<i>M</i>		
Total - Category - C		3,775	10.1										
X - Other Materials	Rural	27,202	72.6										
	Urban	3,143	8.4										
	Total	30,345	81.0	<i>M</i>					<i>VH</i>		<i>M</i>		
Total - Category - X		30,345	81.0										
TOTAL HOUSES*		37,483											
ROOF													
R1 - Light Weight Sloping Roof	Rural	31,277	83.4										
	Urban	5,481	14.6										
	Total	36,758	98.0	<i>M</i>					<i>VH</i>		<i>M</i>		
R2 - Heavy Weight Sloping Roof	Rural	258	0.7										
	Urban	40	0.1										
	Total	298	0.8	<i>M</i>					<i>VH</i>		<i>H</i>		
R3 - Flat Roof	Rural	188	0.5										
	Urban	239	0.6										
	Total	427	1.1		<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		37,483											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 593 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