

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

ARUNACHAL PRADESH

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 %						
STATE - ARUNACHAL PRADESH				100					5.6		94.4			
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	3,921	1.2											
	Urban	2,466	0.7											
	Total	6,387	1.9	VH					VH		M			
A2 - Stone Wall not packed with mortar	Rural	6,662	2.0											
	Urban	2,347	0.7											
	Total	9,009	2.7	VH					H		L			
Total - Category - A		15,396	4.5											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	14,627	4.3											
	Urban	16,496	4.9											
	Total	31,123	9.2	H					H		L			
Total - Category - B		31,123	9.2											
C1 - Concrete Wall	Rural	12,899	3.8											
	Urban	19,975	5.9											
	Total	32,874	9.7	M					L		VL			
C2 - Wood wall	Rural	27,567	8.1											
	Urban	6,991	2.1											
	Total	34,558	10.2	M					VH		M			
Total - Category - C		67,432	19.8											
X - Other Materials	Rural	184,184	54.2											
	Urban	41,688	12.3											
	Total	225,872	66.5	M					VH		M			
Total - Category - X		225,872	66.5											
TOTAL HOUSES*		339,823												
ROOF														
R1 - Light Weight Sloping Roof	Rural	242,761	71.4											
	Urban	73,193	21.5											
	Total	315,954	92.9	M					VH		M			
R2 - Heavy Weight Sloping Roof	Rural	2,928	0.9											
	Urban	2,203	0.6											
	Total	5,131	1.5	M					VH		H			
R3 - Flat Roof	Rural	4,171	1.2											
	Urban	14,567	4.3											
	Total	18,738	5.5	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		339,823												

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