

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

**Table No. : AR 01**

**State : ARUNACHAL PRADESH**

**TAWANG**

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	71	0.6									
	Urban	6	0.1									
	Total	77	0.7	VH						M		
A2 - Stone Wall not packed with mortar	Rural	3,842	34.5									
	Urban	10	0.1									
	Total	3,852	34.6	VH						L		
Total - Category - A		3,929	35.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,327	11.9									
	Urban	530	4.8									
	Total	1,857	16.7	H						L		
Total - Category - B		1,857	16.7									
C1 - Concrete Wall	Rural	671	6.0									
	Urban	476	4.3									
	Total	1,147	10.3	M						VL		
C2 - Wood wall	Rural	789	7.1									
	Urban	134	1.2									
	Total	923	8.3	M						M		
Total - Category - C		2,070	18.6									
X - Other Materials	Rural	2,352	21.1									
	Urban	943	8.5									
	Total	3,295	29.6	M						M		
Total - Category - X		3,295	29.5									
TOTAL HOUSES*		11,151										

ROOF												
R1 - Light Weight Sloping Roof	Rural	8,652	77.6									
	Urban	1,503	13.5									
	Total	10,155	91.1	M						M		
R2 - Heavy Weight Sloping Roof	Rural	97	0.9									
	Urban	18	0.2									
	Total	115	1.1	M						H		
R3 - Flat Roof	Rural	303	2.7									
	Urban	578	5.2									
	Total	881	7.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		11,151										

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