

## 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									
		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					
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	71	0.6										
	Urban	6	0.1										
	<b>Total</b>	<b>77</b>	<b>0.7</b>	VH								<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	3,842	34.5										
	Urban	10	0.1										
	<b>Total</b>	<b>3,852</b>	<b>34.6</b>	VH								<i>L</i>	
<b>Total - Category - A</b>		<b>3,929</b>	<b>35.2</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	1,327	11.9										
	Urban	530	4.8										
	<b>Total</b>	<b>1,857</b>	<b>16.7</b>	H								<i>L</i>	
<b>Total - Category - B</b>		<b>1,857</b>	<b>16.7</b>										
<b>C1 - Concrete Wall</b>	Rural	671	6.0										
	Urban	476	4.3										
	<b>Total</b>	<b>1,147</b>	<b>10.3</b>	M								<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	789	7.1										
	Urban	134	1.2										
	<b>Total</b>	<b>923</b>	<b>8.3</b>	M								<i>M</i>	
<b>Total - Category - C</b>		<b>2,070</b>	<b>18.6</b>										
<b>X - Other Materials</b>	Rural	2,352	21.1										
	Urban	943	8.5										
	<b>Total</b>	<b>3,295</b>	<b>29.6</b>	M								<i>M</i>	
<b>Total - Category - X</b>		<b>3,295</b>	<b>29.5</b>										
<b>TOTAL HOUSES*</b>		<b>11,151</b>											

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

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