

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

**Table No. : AP 12**

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### ANANTAPUR

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	.2
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	60,324	5.5									
	Urban	16,896	1.5									
	<b>Total</b>	<b>77,220</b>	<b>7.0</b>					<i>L</i>		<i>M</i>	<i>L</i>	<i>VH</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	94,522	8.6									
	Urban	23,351	2.1									
	<b>Total</b>	<b>117,873</b>	<b>10.7</b>					<i>L</i>		<i>L</i>	<i>VL</i>	<i>VH</i>
<b>Total - Category - A</b>		<b>195,093</b>	<b>17.8</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	592,951	54.1									
	Urban	248,286	22.6									
	<b>Total</b>	<b>841,237</b>	<b>76.7</b>					<i>VL</i>		<i>L</i>	<i>VL</i>	<i>H/M</i>
<b>Total - Category - B</b>		<b>841,237</b>	<b>76.7</b>									
<b>C1 - Concrete Wall</b>	Rural	7,634	0.7									
	Urban	7,587	0.7									
	<b>Total</b>	<b>15,221</b>	<b>1.4</b>					<i>VL</i>		<i>VL</i>	<i>VL</i>	<i>L/VL</i>
<b>C2 - Wood wall</b>	Rural	4,717	0.4									
	Urban	1,163	0.1									
	<b>Total</b>	<b>5,880</b>	<b>0.5</b>					<i>VL</i>		<i>M</i>	<i>L</i>	<i>H</i>
<b>Total - Category - C</b>		<b>21,101</b>	<b>1.9</b>									
<b>X - Other Materials</b>	Rural	29,705	2.7									
	Urban	9,126	0.8									
	<b>Total</b>	<b>38,831</b>	<b>3.5</b>					<i>VL</i>		<i>M</i>	<i>L</i>	<i>VH</i>
<b>Total - Category - X</b>		<b>38,831</b>	<b>3.5</b>									
<b>TOTAL HOUSES*</b>		<b>1,096,262</b>										

ROOF												
<b>R1 - Light Weight Sloping Roof</b>	Rural	239,729	21.9									
	Urban	71,789	6.5									
	<b>Total</b>	<b>311,518</b>	<b>28.4</b>					<i>VL</i>		<i>H</i>	<i>M</i>	<i>VH</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	353,670	32.3									
	Urban	74,814	6.8									
	<b>Total</b>	<b>428,484</b>	<b>39.1</b>					<i>VL</i>		<i>L</i>	<i>VL</i>	<i>H</i>
<b>R3 - Flat Roof</b>	Rural	196,454	17.9									
	Urban	159,806	14.6									
	<b>Total</b>	<b>356,260</b>	<b>32.5</b>					<i>Damage Risk as per that for the Wall supporting it</i>				
<b>TOTAL HOUSES*</b>		<b>1,096,262</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **548 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 chocked 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