

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

**Table No. : AP 04**

**ANDHRA PRADESH**

**EAST GODAVARI**

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 %				
						52.2	47.8	51.4	39.1	9.5		31.5
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	168,968	11.1									
	Urban	31,214	2.0									
	<b>Total</b>	<b>200,182</b>	<b>13.1</b>			M	L	VH	H	M		VH
<b>A2 - Stone Wall not packed with mortar</b>	Rural	15,026	1.0									
	Urban	9,479	0.6									
	<b>Total</b>	<b>24,505</b>	<b>1.6</b>			M	L	H	M	L		VH
<b>Total - Category - A</b>		<b>224,687</b>	<b>14.7</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	794,741	52.1									
	Urban	310,328	20.3									
	<b>Total</b>	<b>1,105,069</b>	<b>72.4</b>			L	VL	H	M	L		H/M
<b>Total - Category - B</b>		<b>1,105,069</b>	<b>72.4</b>									
<b>C1 - Concrete Wall</b>	Rural	18,744	1.2									
	Urban	16,662	1.1									
	<b>Total</b>	<b>35,406</b>	<b>2.3</b>			VL	VL	L	VL	VL		L/VL
<b>C2 - Wood wall</b>	Rural	16,896	1.1									
	Urban	936	0.1									
	<b>Total</b>	<b>17,832</b>	<b>1.2</b>			VL	VL	VH	H	M		H
<b>Total - Category - C</b>		<b>53,238</b>	<b>3.5</b>									
<b>X - Other Materials</b>	Rural	129,420	8.5									
	Urban	13,644	0.9									
	<b>Total</b>	<b>143,064</b>	<b>9.4</b>			VL	VL	VH	H	M		VH
<b>Total - Category - X</b>		<b>143,064</b>	<b>9.4</b>									
<b>TOTAL HOUSES*</b>		<b>1,526,058</b>										

  

ROOF												
<b>R1 - Light Weight Sloping Roof</b>	Rural	283,934	18.6									
	Urban	50,549	3.3									
	<b>Total</b>	<b>334,483</b>	<b>21.9</b>			L	VL	VH	VH	H		VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	462,611	30.3									
	Urban	68,457	4.5									
	<b>Total</b>	<b>531,068</b>	<b>34.8</b>			L	VL	H	M	L		H
<b>R3 - Flat Roof</b>	Rural	397,250	26.0									
	Urban	263,257	17.3									
	<b>Total</b>	<b>660,507</b>	<b>43.3</b>									
<b>TOTAL HOUSES*</b>		<b>1,526,058</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **830 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