

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

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

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