

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

Table No. : AP 07

ANDHRA PRADESH

GUNTUR

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 %				
						56.7	43.3	30.2		69.8		13.5
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	94,976	6.4									
	Urban	18,863	1.3									
	Total	113,839	7.7			M	L	VH			M	VH
A2 - Stone Wall not packed with mortar	Rural	43,029	2.9									
	Urban	13,144	0.9									
	Total	56,173	3.8			M	L	H			L	VH
Total - Category - A		170,012	11.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	682,618	46.0									
	Urban	400,067	27.0									
	Total	1,082,685	73.0			L	VL	H			L	H/M
Total - Category - B		1,082,685	73.0									
C1 - Concrete Wall	Rural	16,999	1.1									
	Urban	18,069	1.2									
	Total	35,068	2.3				VL	VL	L		VL	L/VL
C2 - Wood wall	Rural	8,707	0.6									
	Urban	1,321	0.1									
	Total	10,028	0.7				VL	VL	VH		M	H
Total - Category - C		45,096	3.0									
X - Other Materials	Rural	159,983	10.8									
	Urban	25,240	1.7									
	Total	185,223	12.5				VL	VL	VH		M	VH
Total - Category - X		185,223	12.5									
TOTAL HOUSES*		1,483,016										
ROOF												
R1 - Light Weight Sloping Roof	Rural	424,913	28.7									
	Urban	143,442	9.7									
	Total	568,355	38.4				L	VL	VH		H	VH
R2 - Heavy Weight Sloping Roof	Rural	104,523	7.0									
	Urban	37,938	2.6									
	Total	142,461	9.6				L	VL	H		L	H
R3 - Flat Roof	Rural	476,876	32.2									
	Urban	295,324	19.9									
	Total	772,200	52.1	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		1,483,016										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **576 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