

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

Table No. : AP 13

ANDHRA PRADESH

CHITTOOR

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 %					
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	138,927	12.0										
	Urban	19,018	1.6										
	Total	157,945	13.6			M	L	VH		M	L		
A2 - Stone Wall not packed with mortar	Rural	15,440	1.3										
	Urban	4,668	0.4										
	Total	20,108	1.7			M	L	H		L	VL		
Total - Category - A		178,053	15.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	620,386	53.7										
	Urban	311,151	26.9										
	Total	931,537	80.6			L	VL	H		L	VL		
Total - Category - B		931,537	80.6										
C1 - Concrete Wall	Rural	8,030	0.7										
	Urban	9,519	0.8										
	Total	17,549	1.5			VL	VL	L		VL	VL		
C2 - Wood wall	Rural	1,337	0.1										
	Urban	363	-										
	Total	1,700	0.1			VL	VL	VH		M	L		
Total - Category - C		19,249	1.7										
X - Other Materials	Rural	22,070	1.9										
	Urban	4,462	0.4										
	Total	26,532	2.3			VL	VL	VH		M	L		
Total - Category - X		26,532	2.3										
TOTAL HOUSES*		1,155,371											
ROOF													
R1 - Light Weight Sloping Roof	Rural	173,607	15.0										
	Urban	67,346	5.8										
	Total	240,953	20.8			L	VL	VH		H	M		
R2 - Heavy Weight Sloping Roof	Rural	164,082	14.2										
	Urban	28,397	2.5										
	Total	192,479	16.7			L	VL	H		L	VL		
R3 - Flat Roof	Rural	468,501	40.5										
	Urban	253,438	21.9										
	Total	721,939	62.4	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		1,155,371											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **554 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