

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

Table No. : AP 05

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WEST 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 %				
WALL								100	53.7	9.0	37.4	41.7
A1 - Mud & Unburnt Brick Wall	Rural	132,350	11.1									
	Urban	20,051	1.7									
	Total	152,401	12.8					M	VH	H	M	VH
A2 - Stone Wall not packed with mortar	Rural	19,947	1.7									
	Urban	5,411	0.5									
	Total	25,358	2.2					M	H	M	L	VH
Total - Category - A		177,759	14.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	647,303	54.2									
	Urban	190,593	15.9									
	Total	837,896	70.1					L	H	M	L	H/M
Total - Category - B		837,896	70.1									
C1 - Concrete Wall	Rural	14,496	1.2									
	Urban	7,489	0.6									
	Total	21,985	1.8					VL	L	VL	VL	L/VL
C2 - Wood wall	Rural	5,642	0.5									
	Urban	643	0.1									
	Total	6,285	0.6					VL	VH	H	M	H
Total - Category - C		28,270	2.4									
X - Other Materials	Rural	141,016	11.8									
	Urban	10,194	0.9									
	Total	151,210	12.7					VL	VH	H	M	VH
Total - Category - X		151,210	12.7									
TOTAL HOUSES*		1,195,135										

ROOF												
R1 - Light Weight Sloping Roof	Rural	299,072	25.0									
	Urban	48,677	4.1									
	Total	347,749	29.1					L	VH	VH	H	VH
R2 - Heavy Weight Sloping Roof	Rural	277,633	23.2									
	Urban	34,406	2.9									
	Total	312,039	26.1					L	H	M	L	H
R3 - Flat Roof	Rural	384,049	32.1									
	Urban	151,298	12.7									
	Total	535,347	44.8						Damage Risk as per that for the Wall supporting it			
TOTAL HOUSES*		1,195,135										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 801 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