

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

Table No. : CT 12

State : CHHATTISGARH

MAHASAMUND

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 %				
							100			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	172,629	58.0									
	Urban	11,737	3.9									
	Total	184,366	61.9				L			M		
A2 - Stone Wall not packed with mortar	Rural	4,800	1.6									
	Urban	87	-									
	Total	4,887	1.6				L			L		
Total - Category - A		189,253	63.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	82,160	27.6									
	Urban	18,870	6.3									
	Total	101,030	33.9				VL			L		
Total - Category - B		101,030	34.0									
C1 - Concrete Wall	Rural	2,247	0.8									
	Urban	1,043	0.4									
	Total	3,290	1.2				VL			VL		
C2 - Wood wall	Rural	461	0.2									
	Urban	158	0.1									
	Total	619	0.3				VL			M		
Total - Category - C		3,909	1.3									
X - Other Materials	Rural	2,699	0.9									
	Urban	683	0.2									
	Total	3,382	1.1				VL			M		
Total - Category - X		3,382	1.1									
TOTAL HOUSES*		297,574										

ROOF												
R1 - Light Weight Sloping Roof	Rural	17,726	6.0									
	Urban	3,433	1.2									
	Total	21,159	7.2				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	219,435	73.7									
	Urban	15,685	5.3									
	Total	235,120	79.0				VL			L		
R3 - Flat Roof	Rural	27,835	9.4									
	Urban	13,460	4.5									
	Total	41,295	13.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		297,574										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **622 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