

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

Table No. : CT 13

State : CHHATTISGARH

DHAMTARI

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	91,480	46.6									
	Urban	10,592	5.4									
	Total	102,072	52.0				L			M		
A2 - Stone Wall not packed with mortar	Rural	538	0.3									
	Urban	105	0.1									
	Total	643	0.4				L			L		
Total - Category - A		102,715	52.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	63,118	32.1									
	Urban	26,148	13.3									
	Total	89,266	45.4				VL			L		
Total - Category - B		89,266	45.5									
C1 - Concrete Wall	Rural	1,196	0.6									
	Urban	623	0.3									
	Total	1,819	0.9				VL			VL		
C2 - Wood wall	Rural	297	0.2									
	Urban	344	0.2									
	Total	641	0.4				VL			M		
Total - Category - C		2,460	1.3									
X - Other Materials	Rural	1,538	0.8									
	Urban	408	0.2									
	Total	1,946	1.0				VL			M		
Total - Category - X		1,946	1.0									
TOTAL HOUSES*		196,387										

ROOF												
R1 - Light Weight Sloping Roof	Rural	11,341	5.8									
	Urban	2,544	1.3									
	Total	13,885	7.1				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	111,730	56.9									
	Urban	17,692	9.0									
	Total	129,422	65.9				VL			L		
R3 - Flat Roof	Rural	35,096	17.9									
	Urban	17,984	9.2									
	Total	53,080	27.1	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		196,387										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **523 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