

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

Table No. : CT 11

State : CHHATTISGARH

RAIPUR

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 %					
							100			100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	362,252	36.9										
	Urban	71,464	7.3										
	Total	433,716	44.2				L			M			
A2 - Stone Wall not packed with mortar	Rural	50,958	5.2										
	Urban	7,117	0.7										
	Total	58,075	5.9				L			L			
Total - Category - A		491,791	50.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	197,291	20.1										
	Urban	253,892	25.8										
	Total	451,183	45.9				VL			L			
Total - Category - B		451,183	45.9										
C1 - Concrete Wall	Rural	6,592	0.7										
	Urban	10,467	1.1										
	Total	17,059	1.8				VL			VL			
C2 - Wood wall	Rural	2,987	0.3										
	Urban	1,417	0.1										
	Total	4,404	0.4				VL			M			
Total - Category - C		21,463	2.2										
X - Other Materials	Rural	11,200	1.1										
	Urban	7,046	0.7										
	Total	18,246	1.8				VL			M			
Total - Category - X		18,246	1.9										
TOTAL HOUSES*		982,683											

ROOF												
R1 - Light Weight Sloping Roof	Rural	77,686	7.9									
	Urban	53,992	5.5									
	Total	131,678	13.4				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	425,108	43.3									
	Urban	88,650	9.0									
	Total	513,758	52.3				VL			L		
R3 - Flat Roof	Rural	128,486	13.1									
	Urban	208,761	21.2									
	Total	337,247	34.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		982,683										

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