

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

Table No. : CT 10

State : CHHATTISGARH

DURG

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	312,628	38.4									
	Urban	74,009	9.1									
	Total	386,637	47.5				L			M		
A2 - Stone Wall not packed with mortar	Rural	9,536	1.2									
	Urban	1,767	0.2									
	Total	11,303	1.4				L			L		
Total - Category - A		397,940	48.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	162,172	19.9									
	Urban	228,089	28.0									
	Total	390,261	47.9				VL			L		
Total - Category - B		390,261	47.9									
C1 - Concrete Wall	Rural	3,595	0.4									
	Urban	6,314	0.8									
	Total	9,909	1.2				VL			VL		
C2 - Wood wall	Rural	1,428	0.2									
	Urban	1,992	0.2									
	Total	3,420	0.4				VL			M		
Total - Category - C		13,329	1.6									
X - Other Materials	Rural	7,144	0.9									
	Urban	5,743	0.7									
	Total	12,887	1.6				VL			M		
Total - Category - X		12,887	1.6									
TOTAL HOUSES*		814,417										

ROOF												
R1 - Light Weight Sloping Roof	Rural	50,264	6.2									
	Urban	66,332	8.1									
	Total	116,596	14.3				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	345,770	42.5									
	Urban	88,915	10.9									
	Total	434,685	53.4				VL			L		
R3 - Flat Roof	Rural	100,469	12.3									
	Urban	162,667	20.0									
	Total	263,136	32.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		814,417										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **425 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