

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

Table No. : CT 14

State : CHHATTISGARH UTTAR BASTAR KANKER

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	130,183	71.5									
	Urban	8,079	4.4									
	Total	138,262	75.9				L			M		
A2 - Stone Wall not packed with mortar	Rural	215	0.1									
	Urban	75	-									
	Total	290	0.1				L			L		
Total - Category - A		138,552	76.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	22,680	12.5									
	Urban	12,788	7.0									
	Total	35,468	19.5				VL			L		
Total - Category - B		35,468	19.5									
C1 - Concrete Wall	Rural	209	0.1									
	Urban	93	0.1									
	Total	302	0.2				VL			VL		
C2 - Wood wall	Rural	1,032	0.6									
	Urban	63	-									
	Total	1,095	0.6				VL			M		
Total - Category - C		1,397	0.8									
X - Other Materials	Rural	6,254	3.4									
	Urban	466	0.3									
	Total	6,720	3.7				VL			M		
Total - Category - X		6,720	3.7									
TOTAL HOUSES*		182,137										

ROOF												
R1 - Light Weight Sloping Roof	Rural	16,409	9.0									
	Urban	2,869	1.6									
	Total	19,278	10.6				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	132,756	72.9									
	Urban	10,687	5.9									
	Total	143,443	78.8				VL			L		
R3 - Flat Roof	Rural	11,408	6.3									
	Urban	8,008	4.4									
	Total	19,416	10.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		182,137										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **584 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