

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

Table No. : CT 08

State : CHHATTISGARH

KABEERDHAM

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	113,033	56.0									
	Urban	7,355	3.6									
	Total	120,388	59.6				L			M		
A2 - Stone Wall not packed with mortar	Rural	3,811	1.9									
	Urban	163	0.1									
	Total	3,974	2.0				L			L		
Total - Category - A		124,362	61.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	55,218	27.4									
	Urban	12,896	6.4									
	Total	68,114	33.8				VL			L		
Total - Category - B		68,114	33.7									
C1 - Concrete Wall	Rural	892	0.4									
	Urban	197	0.1									
	Total	1,089	0.5				VL			VL		
C2 - Wood wall	Rural	2,190	1.1									
	Urban	200	0.1									
	Total	2,390	1.2				VL			M		
Total - Category - C		3,479	1.7									
X - Other Materials	Rural	5,106	2.5									
	Urban	787	0.4									
	Total	5,893	2.9				VL			M		
Total - Category - X		5,893	2.9									
TOTAL HOUSES*		201,848										

ROOF												
R1 - Light Weight Sloping Roof	Rural	18,219	9.0									
	Urban	3,083	1.5									
	Total	21,302	10.5				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	133,001	65.9									
	Urban	8,495	4.2									
	Total	141,496	70.1				VL			L		
R3 - Flat Roof	Rural	29,030	14.4									
	Urban	10,020	5.0									
	Total	39,050	19.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		201,848										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 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