

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

Table No. : CT 15

State : CHHATTISGARH

BASTAR

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	244,903	69.1									
	Urban	20,917	5.9									
	Total	265,820	75.0				L			M		
A2 - Stone Wall not packed with mortar	Rural	6,048	1.7									
	Urban	528	0.1									
	Total	6,576	1.8				L			L		
Total - Category - A		272,396	76.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	44,000	12.4									
	Urban	26,795	7.6									
	Total	70,795	20.0				VL			L		
Total - Category - B		70,795	20.0									
C1 - Concrete Wall	Rural	640	0.2									
	Urban	489	0.1									
	Total	1,129	0.3				VL			VL		
C2 - Wood wall	Rural	4,153	1.2									
	Urban	249	0.1									
	Total	4,402	1.3				VL			M		
Total - Category - C		5,531	1.6									
X - Other Materials	Rural	5,024	1.4									
	Urban	853	0.2									
	Total	5,877	1.6				VL			M		
Total - Category - X		5,877	1.7									
TOTAL HOUSES*		354,599										

ROOF												
R1 - Light Weight Sloping Roof	Rural	28,139	7.9									
	Urban	8,357	2.4									
	Total	36,496	10.3				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	262,119	73.9									
	Urban	25,846	7.3									
	Total	287,965	81.2				VL			L		
R3 - Flat Roof	Rural	14,510	4.1									
	Urban	15,628	4.4									
	Total	30,138	8.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		354,599										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **691 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