

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

**Table No. : CT 16**

**State : CHHATTISGARH**

**NARAYANPUR**

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	20,456	65.6									
	Urban	3,376	10.8									
	Total	23,832	76.4				L			M		
A2 - Stone Wall not packed with mortar	Rural	40	0.1									
	Urban	12	-									
	Total	52	0.1				L			L		
Total - Category - A		23,884	76.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	1,686	5.4									
	Urban	2,070	6.6									
	Total	3,756	12.0				VL			L		
Total - Category - B		3,756	12.0									
C1 - Concrete Wall	Rural	10	-									
	Urban	14	-									
	Total	24	-				VL			VL		
C2 - Wood wall	Rural	370	1.2									
	Urban	8	-									
	Total	378	1.2				VL			M		
Total - Category - C		402	1.3									
X - Other Materials	Rural	3,060	9.8									
	Urban	74	0.2									
	Total	3,134	10.0				VL			M		
Total - Category - X		3,134	10.1									
TOTAL HOUSES*		31,176										

ROOF												
R1 - Light Weight Sloping Roof	Rural	5,817	18.7									
	Urban	791	2.5									
	Total	6,608	21.2				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	19,024	61.0									
	Urban	3,685	11.8									
	Total	22,709	72.8				VL			L		
R3 - Flat Roof	Rural	781	2.5									
	Urban	1,078	3.5									
	Total	1,859	6.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		31,176										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **695 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