

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

**Table No. : CT 06**

**State : CHHATTISGARH**

**JANJGIR - CHAMPA**

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	218,516	53.1									
	Urban	17,782	4.3									
	Total	236,298	57.4				L			M		
A2 - Stone Wall not packed with mortar	Rural	11,587	2.8									
	Urban	1,891	0.5									
	Total	13,478	3.3				L			L		
Total - Category - A		249,776	60.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	116,747	28.4									
	Urban	32,906	8.0									
	Total	149,653	36.4				VL			L		
Total - Category - B		149,653	36.3									
C1 - Concrete Wall	Rural	3,390	0.8									
	Urban	1,291	0.3									
	Total	4,681	1.1				VL			VL		
C2 - Wood wall	Rural	721	0.2									
	Urban	463	0.1									
	Total	1,184	0.3				VL			M		
Total - Category - C		5,865	1.4									
X - Other Materials	Rural	5,149	1.3									
	Urban	1,300	0.3									
	Total	6,449	1.6				VL			M		
Total - Category - X		6,449	1.6									
TOTAL HOUSES*		411,743										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	49,102	11.9									
	Urban	11,648	2.8									
	<b>Total</b>	<b>60,750</b>	<b>14.7</b>				VL			H		
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	247,186	60.0									
	Urban	23,209	5.6									
	<b>Total</b>	<b>270,395</b>	<b>65.6</b>				VL			L		
<b>R3 - Flat Roof</b>	Rural	59,822	14.5									
	Urban	20,776	5.0									
	<b>Total</b>	<b>80,598</b>	<b>19.5</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>411,743</b>										

**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