

## 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									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
						100				100			
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	218,516	53.1										
	Urban	17,782	4.3										
	<b>Total</b>	<b>236,298</b>	<b>57.4</b>					<i>L</i>			<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	11,587	2.8										
	Urban	1,891	0.5										
	<b>Total</b>	<b>13,478</b>	<b>3.3</b>					<i>L</i>			<i>L</i>		
<b>Total - Category - A</b>		<b>249,776</b>	<b>60.7</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	116,747	28.4										
	Urban	32,906	8.0										
	<b>Total</b>	<b>149,653</b>	<b>36.4</b>					<i>VL</i>			<i>L</i>		
<b>Total - Category - B</b>		<b>149,653</b>	<b>36.3</b>										
<b>C1 - Concrete Wall</b>	Rural	3,390	0.8										
	Urban	1,291	0.3										
	<b>Total</b>	<b>4,681</b>	<b>1.1</b>					<i>VL</i>			<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	721	0.2										
	Urban	463	0.1										
	<b>Total</b>	<b>1,184</b>	<b>0.3</b>					<i>VL</i>			<i>M</i>		
<b>Total - Category - C</b>		<b>5,865</b>	<b>1.4</b>										
<b>X - Other Materials</b>	Rural	5,149	1.3										
	Urban	1,300	0.3										
	<b>Total</b>	<b>6,449</b>	<b>1.6</b>					<i>VL</i>			<i>M</i>		
<b>Total - Category - X</b>		<b>6,449</b>	<b>1.6</b>										
<b>TOTAL HOUSES*</b>		<b>411,743</b>											

<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>					<i>VL</i>			<i>H</i>	
<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>					<i>VL</i>			<i>L</i>	
<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