

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

**Table No. : CT 05**

**State : CHHATTISGARH**

**KORBA**

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 %				
<b>WALL</b>				51.2	48.8				100			
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	148,930	48.6									
	Urban	32,309	10.5									
	<b>Total</b>	<b>181,239</b>	<b>59.1</b>				<i>M</i>	<i>L</i>			<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	777	0.3									
	Urban	331	0.1									
	<b>Total</b>	<b>1,108</b>	<b>0.4</b>				<i>M</i>	<i>L</i>			<i>L</i>	
<b>Total - Category - A</b>		<b>182,347</b>	<b>59.5</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	42,933	14.0									
	Urban	74,833	24.4									
	<b>Total</b>	<b>117,766</b>	<b>38.4</b>				<i>L</i>	<i>VL</i>			<i>L</i>	
<b>Total - Category - B</b>		<b>117,766</b>	<b>38.4</b>									
<b>C1 - Concrete Wall</b>	Rural	822	0.3									
	Urban	1,131	0.4									
	<b>Total</b>	<b>1,953</b>	<b>0.7</b>				<i>VL</i>	<i>VL</i>			<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	713	0.2									
	Urban	89	-									
	<b>Total</b>	<b>802</b>	<b>0.2</b>				<i>VL</i>	<i>VL</i>			<i>M</i>	
<b>Total - Category - C</b>		<b>2,755</b>	<b>0.9</b>									
<b>X - Other Materials</b>	Rural	2,010	0.7									
	Urban	1,441	0.5									
	<b>Total</b>	<b>3,451</b>	<b>1.2</b>				<i>VL</i>	<i>VL</i>			<i>M</i>	
<b>Total - Category - X</b>		<b>3,451</b>	<b>1.1</b>									
<b>TOTAL HOUSES*</b>		<b>306,319</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	22,417	7.3									
	Urban	32,345	10.6									
	<b>Total</b>	<b>54,762</b>	<b>17.9</b>				<i>L</i>	<i>VL</i>			<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	158,137	51.6									
	Urban	34,383	11.2									
	<b>Total</b>	<b>192,520</b>	<b>62.8</b>				<i>L</i>	<i>VL</i>			<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	15,631	5.1									
	Urban	43,406	14.2									
	<b>Total</b>	<b>59,037</b>	<b>19.3</b>				<i>Damage Risk as per that for the Wall supporting it</i>					
<b>TOTAL HOUSES*</b>		<b>306,319</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 440 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