

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

Table No. : CT 13

State : CHHATTISGARH

DHAMTARI

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	91,480	46.6									
	Urban	10,592	5.4									
	<b>Total</b>	<b>102,072</b>	<b>52.0</b>					<i>L</i>			<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	538	0.3									
	Urban	105	0.1									
	<b>Total</b>	<b>643</b>	<b>0.4</b>					<i>L</i>			<i>L</i>	
<b>Total - Category - A</b>		<b>102,715</b>	<b>52.3</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	63,118	32.1									
	Urban	26,148	13.3									
	<b>Total</b>	<b>89,266</b>	<b>45.4</b>					<i>VL</i>			<i>L</i>	
<b>Total - Category - B</b>		<b>89,266</b>	<b>45.5</b>									
<b>C1 - Concrete Wall</b>	Rural	1,196	0.6									
	Urban	623	0.3									
	<b>Total</b>	<b>1,819</b>	<b>0.9</b>					<i>VL</i>			<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	297	0.2									
	Urban	344	0.2									
	<b>Total</b>	<b>641</b>	<b>0.4</b>					<i>VL</i>			<i>M</i>	
<b>Total - Category - C</b>		<b>2,460</b>	<b>1.3</b>									
<b>X - Other Materials</b>	Rural	1,538	0.8									
	Urban	408	0.2									
	<b>Total</b>	<b>1,946</b>	<b>1.0</b>					<i>VL</i>			<i>M</i>	
<b>Total - Category - X</b>		<b>1,946</b>	<b>1.0</b>									
<b>TOTAL HOUSES*</b>		<b>196,387</b>										

ROOF												
<b>R1 - Light Weight Sloping Roof</b>	Rural	11,341	5.8									
	Urban	2,544	1.3									
	<b>Total</b>	<b>13,885</b>	<b>7.1</b>					<i>VL</i>			<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	111,730	56.9									
	Urban	17,692	9.0									
	<b>Total</b>	<b>129,422</b>	<b>65.9</b>					<i>VL</i>			<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	35,096	17.9									
	Urban	17,984	9.2									
	<b>Total</b>	<b>53,080</b>	<b>27.1</b>					Damage Risk as per that for the Wall supporting it				
<b>TOTAL HOUSES*</b>		<b>196,387</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 523 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