

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

**Table No. : JD 11**

**State : JHARKHAND**

**LOHARDAGA**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
<b>WALL</b>								100			100	
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	77,513	73.7									
	Urban	3,618	3.4									
	<b>Total</b>	<b>81,131</b>	<b>77.1</b>					<i>L</i>			<i>M</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	109	0.1									
	Urban	50	-									
	<b>Total</b>	<b>159</b>	<b>0.1</b>					<i>L</i>			<i>L</i>	
<b>Total - Category - A</b>		<b>81,290</b>	<b>77.2</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	13,591	12.9									
	Urban	9,482	9.0									
	<b>Total</b>	<b>23,073</b>	<b>21.9</b>					<i>VL</i>			<i>L</i>	
<b>Total - Category - B</b>		<b>23,073</b>	<b>21.9</b>									
<b>C1 - Concrete Wall</b>	Rural	106	0.1									
	Urban	54	0.1									
	<b>Total</b>	<b>160</b>	<b>0.2</b>					<i>VL</i>			<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	49	-									
	Urban	10	-									
	<b>Total</b>	<b>59</b>	<b>-</b>					<i>VL</i>			<i>M</i>	
<b>Total - Category - C</b>		<b>219</b>	<b>0.2</b>									
<b>X - Other Materials</b>	Rural	531	0.5									
	Urban	126	0.1									
	<b>Total</b>	<b>657</b>	<b>0.6</b>					<i>VL</i>			<i>M</i>	
<b>Total - Category - X</b>		<b>657</b>	<b>0.6</b>									
<b>TOTAL HOUSES*</b>		<b>105,239</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	14,820	14.1									
	Urban	2,758	2.6									
	<b>Total</b>	<b>17,578</b>	<b>16.7</b>					<i>VL</i>			<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	70,929	67.4									
	Urban	4,424	4.2									
	<b>Total</b>	<b>75,353</b>	<b>71.6</b>					<i>VL</i>			<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	6,150	5.8									
	Urban	6,158	5.9									
	<b>Total</b>	<b>12,308</b>	<b>11.7</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>105,239</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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

