

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

**Table No. : OR 11**

**State : ODISHA**

**JAGATSINGHAPUR**

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				57.4
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	105,196	31.5									
	Urban	6,708	2.0									
	Total	111,904	33.5			M		VH				VH
A2 - Stone Wall not packed with mortar	Rural	1,486	0.4									
	Urban	320	0.1									
	Total	1,806	0.5			M		H				VH
Total - Category - A		113,710	34.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	164,204	49.2									
	Urban	23,211	6.9									
	Total	187,415	56.1			L		H				H/M
Total - Category - B		187,415	56.1									
C1 - Concrete Wall	Rural	3,296	1.0									
	Urban	960	0.3									
	Total	4,256	1.3			VL		L				L/VL
C2 - Wood wall	Rural	3,180	1.0									
	Urban	813	0.2									
	Total	3,993	1.2			VL		VH				H
Total - Category - C		8,249	2.5									
X - Other Materials	Rural	19,953	6.0									
	Urban	4,649	1.4									
	Total	24,602	7.4			VL		VH				VH
Total - Category - X		24,602	7.4									
TOTAL HOUSES*		333,976										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	160,772	48.1									
	Urban	22,148	6.6									
	<b>Total</b>	<b>182,920</b>	<b>54.7</b>			L		VH				VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	6,011	1.8									
	Urban	853	0.3									
	<b>Total</b>	<b>6,864</b>	<b>2.1</b>			L		H				H
<b>R3 - Flat Roof</b>	Rural	130,532	39.1									
	Urban	13,660	4.1									
	<b>Total</b>	<b>144,192</b>	<b>43.2</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>333,976</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **801 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