

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

Table No. : OR 19

State : ODISHA

GANJAM

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	56.8	43.2					4.7		
WALL																	
<i>A1 - Mud & Unburnt Brick Wall</i>	Rural	127,879	14.1														
	Urban	16,800	1.9														
	Total	144,679	16.0					<i>L</i>	<i>VH</i>	<i>H</i>				<i>VH</i>			
<i>A2 - Stone Wall not packed with mortar</i>	Rural	6,886	0.8														
	Urban	1,526	0.2														
	Total	8,412	1.0					<i>L</i>	<i>H</i>	<i>M</i>				<i>VH</i>			
Total - Category - A		153,091	16.9														
<i>B - Burnt Bricks Wall & Stone wall packed with mortar</i>	Rural	469,247	51.8														
	Urban	158,725	17.5														
	Total	627,972	69.3					<i>VL</i>	<i>H</i>	<i>M</i>				<i>H/M</i>			
Total - Category - B		627,972	69.3														
<i>C1 - Concrete Wall</i>	Rural	8,964	1.0														
	Urban	6,110	0.7														
	Total	15,074	1.7					<i>VL</i>	<i>L</i>	<i>VL</i>				<i>L/VL</i>			
<i>C2 - Wood wall</i>	Rural	28,356	3.1														
	Urban	2,549	0.3														
	Total	30,905	3.4					<i>VL</i>	<i>VH</i>	<i>H</i>				<i>H</i>			
Total - Category - C		45,979	5.1														
<i>X - Other Materials</i>	Rural	71,891	7.9														
	Urban	7,024	0.8														
	Total	78,915	8.7					<i>VL</i>	<i>VH</i>	<i>H</i>				<i>VH</i>			
Total - Category - X		78,915	8.7														
TOTAL HOUSES*		905,957															

ROOF														
<i>R1 - Light Weight Sloping Roof</i>	Rural	341,073	37.6											
	Urban	59,732	6.6											
	Total	400,805	44.2					<i>VL</i>	<i>VH</i>	<i>VH</i>				<i>VH</i>
<i>R2 - Heavy Weight Sloping Roof</i>	Rural	26,137	2.9											
	Urban	8,630	1.0											
	Total	34,767	3.9					<i>VL</i>	<i>H</i>	<i>M</i>				<i>H</i>
<i>R3 - Flat Roof</i>	Rural	346,013	38.2											
	Urban	124,372	13.7											
	Total	470,385	51.9	<i>Damage Risk as per that for the Wall supporting it</i>										
TOTAL HOUSES*		905,957												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 726 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