

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

Table No. : OR 04

State : ODISHA

DEBAGARH

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 %					
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	28,524	30.1										
	Urban	1,490	1.6										
	Total	30,014	31.7					<i>M</i>	<i>L</i>			<i>H</i>	<i>M</i>
A2 - Stone Wall not packed with mortar	Rural	4,184	4.4										
	Urban	45	-										
	Total	4,229	4.4					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>
Total - Category - A		34,243	36.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	34,247	36.1										
	Urban	4,328	4.6										
	Total	38,575	40.7					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - B		38,575	40.6										
C1 - Concrete Wall	Rural	628	0.7										
	Urban	214	0.2										
	Total	842	0.9					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>
C2 - Wood wall	Rural	9,258	9.8										
	Urban	188	0.2										
	Total	9,446	10.0					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>
Total - Category - C		10,288	10.8										
X - Other Materials	Rural	11,287	11.9										
	Urban	503	0.5										
	Total	11,790	12.4					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>
Total - Category - X		11,790	12.4										
TOTAL HOUSES*		94,896											

ROOF													
R1 - Light Weight Sloping Roof	Rural	25,584	27.0										
	Urban	1,586	1.7										
	Total	27,170	28.7					<i>L</i>	<i>VL</i>			<i>VH</i>	<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	58,602	61.8										
	Urban	3,380	3.6										
	Total	61,982	65.4					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>
R3 - Flat Roof	Rural	3,942	4.2										
	Urban	1,802	1.9										
	Total	5,744	6.1	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		94,896											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 633 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