

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

Table No. : OR 15

State : ODISHA

ANUGUL

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	114,279	29.7										
	Urban	8,566	2.2										
	Total	122,845	31.9					<i>M</i>	<i>L</i>			<i>H</i>	<i>M</i>
A2 - Stone Wall not packed with mortar	Rural	5,634	1.5										
	Urban	402	0.1										
	Total	6,036	1.6					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>
Total - Category - A		128,881	33.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	140,753	36.5										
	Urban	48,069	12.5										
	Total	188,822	49.0					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - B		188,822	49.0										
C1 - Concrete Wall	Rural	2,571	0.7										
	Urban	1,363	0.4										
	Total	3,934	1.1					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>
C2 - Wood wall	Rural	21,647	5.6										
	Urban	821	0.2										
	Total	22,468	5.8					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>
Total - Category - C		26,402	6.9										
X - Other Materials	Rural	38,222	9.9										
	Urban	3,094	0.8										
	Total	41,316	10.7					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>
Total - Category - X		41,316	10.7										
TOTAL HOUSES*		385,421											

ROOF													
R1 - Light Weight Sloping Roof	Rural	194,689	50.5										
	Urban	26,081	6.8										
	Total	220,770	57.3					<i>L</i>	<i>VL</i>			<i>VH</i>	<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	73,457	19.1										
	Urban	5,615	1.5										
	Total	79,072	20.6					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>
R3 - Flat Roof	Rural	54,960	14.3										
	Urban	30,619	7.9										
	Total	85,579	22.2	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		385,421											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 694 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