

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

Table No. : OR 25

State : ODISHA

NUAPADA

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		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	105,574	53.4									
	Urban	3,507	1.8									
	Total	109,081	55.2				L			M		
A2 - Stone Wall not packed with mortar	Rural	1,081	0.5									
	Urban	173	0.1									
	Total	1,254	0.6				L			L		
Total - Category - A		110,335	55.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	67,175	34.0									
	Urban	6,424	3.2									
	Total	73,599	37.2				VL			L		
Total - Category - B		73,599	37.2									
C1 - Concrete Wall	Rural	2,816	1.4									
	Urban	53	-									
	Total	2,869	1.4				VL			VL		
C2 - Wood wall	Rural	4,191	2.1									
	Urban	147	0.1									
	Total	4,338	2.2				VL			M		
Total - Category - C		7,207	3.6									
X - Other Materials	Rural	6,504	3.3									
	Urban	185	0.1									
	Total	6,689	3.4				VL			M		
Total - Category - X		6,689	3.4									
TOTAL HOUSES*		197,830										

ROOF												
R1 - Light Weight Sloping Roof	Rural	9,426	4.8									
	Urban	933	0.5									
	Total	10,359	5.3				<i>VL</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	165,083	83.4									
	Urban	5,797	2.9									
	Total	170,880	86.3				<i>VL</i>			<i>L</i>		
R3 - Flat Roof	Rural	12,832	6.5									
	Urban	3,759	1.9									
	Total	16,591	8.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		197,830										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **590 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