

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

Table No. : OR 01

State : ODISHA

BARGARH

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 %				
						5.9	94.1			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	225,176	51.7									
	Urban	11,238	2.6									
	Total	236,414	54.3			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	3,147	0.7									
	Urban	407	0.1									
	Total	3,554	0.8			M	L			L		
Total - Category - A		239,968	55.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	129,699	29.8									
	Urban	24,551	5.6									
	Total	154,250	35.4			L	VL			L		
Total - Category - B		154,250	35.4									
C1 - Concrete Wall	Rural	17,200	3.9									
	Urban	5,901	1.4									
	Total	23,101	5.3			VL	VL			VL		
C2 - Wood wall	Rural	2,635	0.6									
	Urban	362	0.1									
	Total	2,997	0.7			VL	VL			M		
Total - Category - C		26,098	6.0									
X - Other Materials	Rural	14,813	3.4									
	Urban	611	0.1									
	Total	15,424	3.5			VL	VL			M		
Total - Category - X		15,424	3.5									
TOTAL HOUSES*		435,740										

ROOF												
R1 - Light Weight Sloping Roof	Rural	83,552	19.2									
	Urban	6,309	1.4									
	Total	89,861	20.6			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	232,481	53.4									
	Urban	15,603	3.6									
	Total	248,084	57.0			L	VL			L		
R3 - Flat Roof	Rural	76,637	17.6									
	Urban	21,158	4.9									
	Total	97,795	22.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		435,740										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **640 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