

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

Table No. : OR 22

State : ODISHA

BAUDH

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		31.1	68.9		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	76,529	57.1									
	Urban	1,539	1.1									
	Total	78,068	58.2				L		H	M		
A2 - Stone Wall not packed with mortar	Rural	1,104	0.8									
	Urban	18	-									
	Total	1,122	0.8				L		M	L		
Total - Category - A		79,190	59.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	26,288	19.6									
	Urban	3,614	2.7									
	Total	29,902	22.3				VL		M	L		
Total - Category - B		29,902	22.3									
C1 - Concrete Wall	Rural	816	0.6									
	Urban	209	0.2									
	Total	1,025	0.8				VL		VL	VL		
C2 - Wood wall	Rural	7,216	5.4									
	Urban	269	0.2									
	Total	7,485	5.6				VL		H	M		
Total - Category - C		8,510	6.3									
X - Other Materials	Rural	16,135	12.0									
	Urban	404	0.3									
	Total	16,539	12.3				VL		H	M		
Total - Category - X		16,539	12.3									
TOTAL HOUSES*		134,141										

ROOF												
R1 - Light Weight Sloping Roof	Rural	97,310	72.5									
	Urban	3,219	2.4									
	Total	100,529	74.9				VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	14,147	10.5									
	Urban	466	0.3									
	Total	14,613	10.8				VL		M	L		
R3 - Flat Roof	Rural	16,631	12.4									
	Urban	2,368	1.8									
	Total	18,999	14.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		134,141										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **669 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