

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

Table No. : OR 24

State : ODISHA

BALANGIR

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	222,639	43.3									
	Urban	12,795	2.5									
	Total	235,434	45.8				L			M		
A2 - Stone Wall not packed with mortar	Rural	4,591	0.9									
	Urban	936	0.2									
	Total	5,527	1.1				L			L		
Total - Category - A		240,961	46.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	177,825	34.6									
	Urban	31,942	6.2									
	Total	209,767	40.8				VL			L		
Total - Category - B		209,767	40.8									
C1 - Concrete Wall	Rural	16,978	3.3									
	Urban	9,168	1.8									
	Total	26,146	5.1				VL			VL		
C2 - Wood wall	Rural	5,900	1.1									
	Urban	336	0.1									
	Total	6,236	1.2				VL			M		
Total - Category - C		32,382	6.3									
X - Other Materials	Rural	29,075	5.7									
	Urban	1,643	0.3									
	Total	30,718	6.0				VL			M		
Total - Category - X		30,718	6.0									
TOTAL HOUSES*		513,828										

ROOF												
R1 - Light Weight Sloping Roof	Rural	61,992	12.1									
	Urban	8,297	1.6									
	Total	70,289	13.7				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	339,723	66.1									
	Urban	24,485	4.8									
	Total	364,208	70.9				VL			L		
R3 - Flat Roof	Rural	55,293	10.8									
	Urban	24,038	4.7									
	Total	79,331	15.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		513,828										

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