

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

Table No. : OR 07

State : ODISHA

MAYURBHANJ

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	99.5	75.6	24.4			.0
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	478,576	66.4									
	Urban	13,065	1.8									
	Total	491,641	68.2			M	L	VH	H			VH
A2 - Stone Wall not packed with mortar	Rural	4,861	0.7									
	Urban	409	0.1									
	Total	5,270	0.8			M	L	H	M			VH
Total - Category - A		496,911	68.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	112,068	15.5									
	Urban	37,375	5.2									
	Total	149,443	20.7			L	VL	H	M			H/M
Total - Category - B		149,443	20.7									
C1 - Concrete Wall	Rural	3,638	0.5									
	Urban	2,427	0.3									
	Total	6,065	0.8			VL	VL	L	VL			L/VL
C2 - Wood wall	Rural	10,678	1.5									
	Urban	1,042	0.1									
	Total	11,720	1.6			VL	VL	VH	H			H
Total - Category - C		17,785	2.5									
X - Other Materials	Rural	52,573	7.3									
	Urban	4,370	0.6									
	Total	56,943	7.9			VL	VL	VH	H			VH
Total - Category - X		56,943	7.9									
TOTAL HOUSES*		721,082										

ROOF												
R1 - Light Weight Sloping Roof	Rural	376,627	52.2									
	Urban	20,806	2.9									
	Total	397,433	55.1			L	VL	VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	246,115	34.1									
	Urban	14,039	1.9									
	Total	260,154	36.0			L	VL	H	M			H
R3 - Flat Roof	Rural	39,652	5.5									
	Urban	23,843	3.3									
	Total	63,495	8.8	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		721,082										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **707 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