

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

Table No. : OR 03

State : ODISHA

SAMBALPUR

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 %				
						34.7	65.3		5.9	94.1		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	107,570	36.4									
	Urban	19,367	6.6									
	Total	126,937	43.0			M	L		H	M		
A2 - Stone Wall not packed with mortar	Rural	4,756	1.6									
	Urban	1,530	0.5									
	Total	6,286	2.1			M	L		M	L		
Total - Category - A		133,223	45.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	70,317	23.8									
	Urban	50,460	17.1									
	Total	120,777	40.9			L	VL		M	L		
Total - Category - B		120,777	40.9									
C1 - Concrete Wall	Rural	6,170	2.1									
	Urban	10,740	3.6									
	Total	16,910	5.7			VL	VL		VL	VL		
C2 - Wood wall	Rural	8,212	2.8									
	Urban	2,289	0.8									
	Total	10,501	3.6			VL	VL		H	M		
Total - Category - C		27,411	9.3									
X - Other Materials	Rural	11,342	3.8									
	Urban	2,609	0.9									
	Total	13,951	4.7			VL	VL		H	M		
Total - Category - X		13,951	4.7									
TOTAL HOUSES*		295,362										

ROOF												
R1 - Light Weight Sloping Roof	Rural	58,363	19.8									
	Urban	29,953	10.1									
	Total	88,316	29.9			L	VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	131,453	44.5									
	Urban	21,850	7.4									
	Total	153,303	51.9			L	VL		M	L		
R3 - Flat Roof	Rural	18,551	6.3									
	Urban	35,192	11.9									
	Total	53,743	18.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		295,362										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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