

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

Table No. : OR 08

State : ODISHA

BALESHWAR

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 %				
						28.1	71.9	100				28.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	331,390	50.4									
	Urban	20,543	3.1									
	Total	351,933	53.5			M	L	VH				VH
A2 - Stone Wall not packed with mortar	Rural	2,646	0.4									
	Urban	710	0.1									
	Total	3,356	0.5			M	L	H				VH
Total - Category - A		355,289	54.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	137,243	20.9									
	Urban	45,915	7.0									
	Total	183,158	27.9			L	VL	H				H/M
Total - Category - B		183,158	27.8									
C1 - Concrete Wall	Rural	5,809	0.9									
	Urban	1,791	0.3									
	Total	7,600	1.2			VL	VL	L				L/VL
C2 - Wood wall	Rural	3,333	0.5									
	Urban	1,168	0.2									
	Total	4,501	0.7			VL	VL	VH				H
Total - Category - C		12,101	1.8									
X - Other Materials	Rural	101,995	15.5									
	Urban	5,438	0.8									
	Total	107,433	16.3			VL	VL	VH				VH
Total - Category - X		107,433	16.3									
TOTAL HOUSES*		657,981										

ROOF												
R1 - Light Weight Sloping Roof	Rural	415,212	63.1									
	Urban	32,560	4.9									
	Total	447,772	68.0			L	VL	VH				VH
R2 - Heavy Weight Sloping Roof	Rural	68,925	10.5									
	Urban	5,059	0.8									
	Total	73,984	11.3			L	VL	H				H
R3 - Flat Roof	Rural	98,279	14.9									
	Urban	37,946	5.8									
	Total	136,225	20.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		657,981										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **729 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, 2001

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