

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

Table No. : OR 27

State : ODISHA

RAYAGADA

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	.8	53.5	45.7		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	111,854	41.9									
	Urban	6,521	2.4									
	Total	118,375	44.3				L	VH	H	M		
A2 - Stone Wall not packed with mortar	Rural	1,876	0.7									
	Urban	375	0.1									
	Total	2,251	0.8				L	H	M	L		
Total - Category - A		120,626	45.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	70,906	26.6									
	Urban	30,353	11.4									
	Total	101,259	38.0				VL	H	M	L		
Total - Category - B		101,259	38.0									
C1 - Concrete Wall	Rural	951	0.4									
	Urban	2,250	0.8									
	Total	3,201	1.2				VL	L	VL	VL		
C2 - Wood wall	Rural	12,421	4.7									
	Urban	999	0.4									
	Total	13,420	5.1				VL	VH	H	M		
Total - Category - C		16,621	6.2									
X - Other Materials	Rural	25,573	9.6									
	Urban	2,716	1.0									
	Total	28,289	10.6				VL	VH	H	M		
Total - Category - X		28,289	10.6									
TOTAL HOUSES*		266,795										

ROOF												
R1 - Light Weight Sloping Roof	Rural	137,073	51.4									
	Urban	20,824	7.8									
	Total	157,897	59.2				VL	VH	VH	H		
R2 - Heavy Weight Sloping Roof	Rural	63,510	23.8									
	Urban	2,648	1.0									
	Total	66,158	24.8				VL	H	M	L		
R3 - Flat Roof	Rural	22,998	8.6									
	Urban	19,742	7.4									
	Total	42,740	16.0	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		266,795										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **648 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