

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

Table No. : OR 16

State : ODISHA

NAYAGARH

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
WALL								100	21.9	78.1			
A1 - Mud & Unburnt Brick Wall	Rural	83,442	30.6					L	VH	H			
	Urban	4,136	1.5										
	Total	87,578	32.1										
A2 - Stone Wall not packed with mortar	Rural	7,670	2.8					L	H	M			
	Urban	503	0.2										
	Total	8,173	3.0										
Total - Category - A		95,751	35.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	111,621	41.0										
	Urban	17,654	6.5										
	Total	129,275	47.5					VL	H	M			
Total - Category - B		129,275	47.4										
C1 - Concrete Wall	Rural	1,525	0.6										
	Urban	262	0.1										
	Total	1,787	0.7					VL	L	VL			
C2 - Wood wall	Rural	9,131	3.4										
	Urban	611	0.2										
	Total	9,742	3.6					VL	VH	H			
Total - Category - C		11,529	4.2										
X - Other Materials	Rural	35,187	12.9										
	Urban	715	0.3										
	Total	35,902	13.2					VL	VH	H			
Total - Category - X		35,902	13.2										
TOTAL HOUSES*		272,457											

ROOF												
R1 - Light Weight Sloping Roof	Rural	149,482	54.9									
	Urban	9,443	3.5									
	Total	158,925	58.4					VL	VH	VH		
R2 - Heavy Weight Sloping Roof	Rural	32,156	11.8									
	Urban	2,234	0.8									
	Total	34,390	12.6					VL	H	M		
R3 - Flat Roof	Rural	66,938	24.6									
	Urban	12,204	4.5									
	Total	79,142	29.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		272,457										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 726 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