

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

Table No. : OR 06

State : ODISHA

KENDUJHAR

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	48.2	51.8			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	314,254	57.9									
	Urban	20,728	3.8									
	Total	334,982	61.7				L	VH	H			
A2 - Stone Wall not packed with mortar	Rural	3,588	0.7									
	Urban	636	0.1									
	Total	4,224	0.8				L	H	M			
Total - Category - A		339,206	62.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	114,730	21.1									
	Urban	46,143	8.5									
	Total	160,873	29.6				VL	H	M			
Total - Category - B		160,873	29.6									
C1 - Concrete Wall	Rural	2,807	0.5									
	Urban	1,922	0.4									
	Total	4,729	0.9				VL	L	VL			
C2 - Wood wall	Rural	10,297	1.9									
	Urban	1,071	0.2									
	Total	11,368	2.1				VL	VH	H			
Total - Category - C		16,097	3.0									
X - Other Materials	Rural	23,441	4.3									
	Urban	3,524	0.6									
	Total	26,965	4.9				VL	VH	H			
Total - Category - X		26,965	5.0									
TOTAL HOUSES*		543,141										

ROOF												
R1 - Light Weight Sloping Roof	Rural	182,031	33.5									
	Urban	32,484	6.0									
	Total	214,515	39.5				VL	VH	VH			
R2 - Heavy Weight Sloping Roof	Rural	251,288	46.3									
	Urban	20,638	3.8									
	Total	271,926	50.1				VL	H	M			
R3 - Flat Roof	Rural	35,798	6.6									
	Urban	20,902	3.8									
	Total	56,700	10.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		543,141										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **625 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