

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

Table No. : OR 13

State : ODISHA

JAJAPUR

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 %				
						43.3	56.7	100				38.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	184,003	35.6									
	Urban	7,688	1.5									
	Total	191,691	37.1			M	L	VH				VH
A2 - Stone Wall not packed with mortar	Rural	7,277	1.4									
	Urban	546	0.1									
	Total	7,823	1.5			M	L	H				VH
Total - Category - A		199,514	38.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	208,286	40.3									
	Urban	28,326	5.5									
	Total	236,612	45.8			L	VL	H				H/M
Total - Category - B		236,612	45.8									
C1 - Concrete Wall	Rural	2,680	0.5									
	Urban	252	-									
	Total	2,932	0.5			VL	VL	L				L/VL
C2 - Wood wall	Rural	5,995	1.2									
	Urban	717	0.1									
	Total	6,712	1.3			VL	VL	VH				H
Total - Category - C		9,644	1.9									
X - Other Materials	Rural	68,454	13.2									
	Urban	2,930	0.6									
	Total	71,384	13.8			VL	VL	VH				VH
Total - Category - X		71,384	13.8									
TOTAL HOUSES*		517,154										

ROOF												
R1 - Light Weight Sloping Roof	Rural	309,627	59.9									
	Urban	18,232	3.5									
	Total	327,859	63.4			L	VL	VH				VH
R2 - Heavy Weight Sloping Roof	Rural	13,249	2.6									
	Urban	1,709	0.3									
	Total	14,958	2.9			L	VL	H				H
R3 - Flat Roof	Rural	153,819	29.7									
	Urban	20,518	4.0									
	Total	174,337	33.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		517,154										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **719 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