

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

Table No. : JD 11

State : JHARKHAND

LOHARDAGA

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			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	77,513	73.7									
	Urban	3,618	3.4									
	Total	81,131	77.1				L			M		
A2 - Stone Wall not packed with mortar	Rural	109	0.1									
	Urban	50	-									
	Total	159	0.1				L			L		
Total - Category - A		81,290	77.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	13,591	12.9									
	Urban	9,482	9.0									
	Total	23,073	21.9				VL			L		
Total - Category - B		23,073	21.9									
C1 - Concrete Wall	Rural	106	0.1									
	Urban	54	0.1									
	Total	160	0.2				VL			VL		
C2 - Wood wall	Rural	49	-									
	Urban	10	-									
	Total	59	-				VL			M		
Total - Category - C		219	0.2									
X - Other Materials	Rural	531	0.5									
	Urban	126	0.1									
	Total	657	0.6				VL			M		
Total - Category - X		657	0.6									
TOTAL HOUSES*		105,239										

ROOF												
R1 - Light Weight Sloping Roof	Rural	14,820	14.1									
	Urban	2,758	2.6									
	Total	17,578	16.7				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	70,929	67.4									
	Urban	4,424	4.2									
	Total	75,353	71.6				VL			L		
R3 - Flat Roof	Rural	6,150	5.8									
	Urban	6,158	5.9									
	Total	12,308	11.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		105,239										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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