

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

Table No. : JD 07

State : JHARKHAND

SAHIBGANJ

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 %					
					71.7	28.3				100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	117,096	46.3										
	Urban	7,682	3.0										
	Total	124,778	49.3		H	M			H				
A2 - Stone Wall not packed with mortar	Rural	731	0.3										
	Urban	305	0.1										
	Total	1,036	0.4		H	M			M				
Total - Category - A		125,814	49.7										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	58,061	23.0										
	Urban	23,573	9.3										
	Total	81,634	32.3		M	L			M				
Total - Category - B		81,634	32.3										
C1 - Concrete Wall	Rural	433	0.2										
	Urban	245	0.1										
	Total	678	0.3		L	VL			VL				
C2 - Wood wall	Rural	1,804	0.7										
	Urban	251	0.1										
	Total	2,055	0.8		L	VL			H				
Total - Category - C		2,733	1.1										
X - Other Materials	Rural	39,498	15.6										
	Urban	3,284	1.3										
	Total	42,782	16.9		VL	VL			H				
Total - Category - X		42,782	16.9										
TOTAL HOUSES*		252,963											

ROOF												
R1 - Light Weight Sloping Roof	Rural	63,798	25.2									
	Urban	3,929	1.6									
	Total	67,727	26.8		M	L			VH			
R2 - Heavy Weight Sloping Roof	Rural	126,499	50.0									
	Urban	13,946	5.5									
	Total	140,445	55.5		M	L			M			
R3 - Flat Roof	Rural	27,326	10.8									
	Urban	17,465	6.9									
	Total	44,791	17.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		252,963										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **679 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