

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

Table No. : JD 24

State : JHARKHAND

SARAIKELA-KHARSAWAN

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 %					
							100		62.6	37.4			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	151,044	56.5										
	Urban	14,685	5.5										
	Total	165,729	62.0				L		H	M			
A2 - Stone Wall not packed with mortar	Rural	7,568	2.8										
	Urban	497	0.2										
	Total	8,065	3.0				L		M	L			
Total - Category - A		173,794	65.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	40,546	15.2										
	Urban	43,237	16.2										
	Total	83,783	31.4				VL		M	L			
Total - Category - B		83,783	31.3										
C1 - Concrete Wall	Rural	1,608	0.6										
	Urban	1,543	0.6										
	Total	3,151	1.2				VL		VL	VL			
C2 - Wood wall	Rural	480	0.2										
	Urban	233	0.1										
	Total	713	0.3				VL		H	M			
Total - Category - C		3,864	1.4										
X - Other Materials	Rural	4,318	1.6										
	Urban	1,690	0.6										
	Total	6,008	2.2				VL		H	M			
Total - Category - X		6,008	2.2										
TOTAL HOUSES*		267,449											

ROOF												
R1 - Light Weight Sloping Roof	Rural	44,493	16.6									
	Urban	17,756	6.6									
	Total	62,249	23.2				VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	137,998	51.6									
	Urban	16,500	6.2									
	Total	154,498	57.8				VL		M	L		
R3 - Flat Roof	Rural	23,073	8.6									
	Urban	27,629	10.3									
	Total	50,702	18.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		267,449										

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