

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

Table No. : JD 20

State : JHARKHAND

KHUNTI

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				100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	94,697	74.4										
	Urban	3,936	3.1										
	Total	98,633	77.5				L			M			
A2 - Stone Wall not packed with mortar	Rural	3,570	2.8										
	Urban	586	0.5										
	Total	4,156	3.3				L			L			
Total - Category - A		102,789	80.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	15,934	12.5										
	Urban	6,163	4.8										
	Total	22,097	17.3				VL			L			
Total - Category - B		22,097	17.4										
C1 - Concrete Wall	Rural	185	0.1										
	Urban	83	0.1										
	Total	268	0.2				VL			VL			
C2 - Wood wall	Rural	333	0.3										
	Urban	79	0.1										
	Total	412	0.4				VL			M			
Total - Category - C		680	0.5										
X - Other Materials	Rural	1,533	1.2										
	Urban	174	0.1										
	Total	1,707	1.3				VL			M			
Total - Category - X		1,707	1.3										
TOTAL HOUSES*		127,273											

ROOF												
R1 - Light Weight Sloping Roof	Rural	13,498	10.6									
	Urban	1,795	1.4									
	Total	15,293	12.0				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	92,079	72.3									
	Urban	5,228	4.1									
	Total	97,307	76.4				VL			L		
R3 - Flat Roof	Rural	10,675	8.4									
	Urban	3,998	3.1									
	Total	14,673	11.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		127,273										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **636 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