

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

Table No. : JD 14

State : JHARKHAND

LATEHAR

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 %					
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	116,884	77.9										
	Urban	4,411	2.9										
	Total	121,295	80.8					<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	212	0.1										
	Urban	137	0.1										
	Total	349	0.2					<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		121,644	81.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	18,630	12.4										
	Urban	7,598	5.1										
	Total	26,228	17.5					<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		26,228	17.5										
C1 - Concrete Wall	Rural	186	0.1										
	Urban	160	0.1										
	Total	346	0.2					<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	136	0.1										
	Urban	103	0.1										
	Total	239	0.2					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		585	0.4										
X - Other Materials	Rural	1,540	1.0										
	Urban	135	0.1										
	Total	1,675	1.1					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		1,675	1.1										
TOTAL HOUSES*		150,132											

ROOF													
R1 - Light Weight Sloping Roof	Rural	25,437	16.9										
	Urban	2,238	1.5										
	Total	27,675	18.4					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	102,340	68.2										
	Urban	4,856	3.2										
	Total	107,196	71.4					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	9,811	6.5										
	Urban	5,450	3.6										
	Total	15,261	10.1					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		150,132											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 633 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