

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

Table No. : JD 08

State : JHARKHAND

PAKUR

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %					Area in %			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	142,088	67.3									
	Urban	5,297	2.5									
	Total	147,385	69.8				<i>M</i>			<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	463	0.2									
	Urban	102	-									
	Total	565	0.2				<i>M</i>			<i>M</i>		
Total - Category - A		147,950	70.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	41,484	19.7									
	Urban	9,643	4.6									
	Total	51,127	24.3				<i>L</i>			<i>M</i>		
Total - Category - B		51,127	24.2									
C1 - Concrete Wall	Rural	244	0.1									
	Urban	209	0.1									
	Total	453	0.2				<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	790	0.4									
	Urban	51	-									
	Total	841	0.4				<i>VL</i>			<i>H</i>		
Total - Category - C		1,294	0.6									
X - Other Materials	Rural	10,266	4.9									
	Urban	398	0.2									
	Total	10,664	5.1				<i>VL</i>			<i>H</i>		
Total - Category - X		10,664	5.1									
TOTAL HOUSES*		211,035										

ROOF												
R1 - Light Weight Sloping Roof	Rural	43,812	20.8									
	Urban	837	0.4									
	Total	44,649	21.2				<i>L</i>			<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	134,383	63.7									
	Urban	7,646	3.6									
	Total	142,029	67.3				<i>L</i>			<i>M</i>		
R3 - Flat Roof	Rural	17,140	8.1									
	Urban	7,217	3.4									
	Total	24,357	11.5				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		211,035										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 694 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