

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

Table No. : JD 05

State : JHARKHAND

DEOGHAR

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						100			48.5	51.5		
A1 - Mud & Unburnt Brick Wall	Rural	159,084	51.9									
	Urban	9,998	3.3									
	Total	169,082	55.2				<i>M</i>			<i>H</i>	<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	1,071	0.3									
	Urban	508	0.2									
	Total	1,579	0.5				<i>M</i>			<i>M</i>	<i>L</i>	
Total - Category - A		170,661	55.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	82,327	26.9									
	Urban	45,294	14.8									
	Total	127,621	41.7				<i>L</i>			<i>M</i>	<i>L</i>	
Total - Category - B		127,621	41.7									
C1 - Concrete Wall	Rural	1,413	0.5									
	Urban	851	0.3									
	Total	2,264	0.8				<i>VL</i>			<i>VL</i>	<i>VL</i>	
C2 - Wood wall	Rural	230	0.1									
	Urban	56	-									
	Total	286	0.1				<i>VL</i>			<i>H</i>	<i>M</i>	
Total - Category - C		2,550	0.8									
X - Other Materials	Rural	4,529	1.5									
	Urban	880	0.3									
	Total	5,409	1.8				<i>VL</i>			<i>H</i>	<i>M</i>	
Total - Category - X		5,409	1.8									
TOTAL HOUSES*		306,241										

ROOF												
R1 - Light Weight Sloping Roof	Rural	37,809	12.3									
	Urban	7,895	2.6									
	Total	45,704	14.9				<i>L</i>			<i>VH</i>	<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	162,534	53.1									
	Urban	12,546	4.1									
	Total	175,080	57.2				<i>L</i>			<i>M</i>	<i>L</i>	
R3 - Flat Roof	Rural	48,311	15.8									
	Urban	37,146	12.1									
	Total	85,457	27.9				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		306,241										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 658 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