

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

Table No. : JD 04

State : JHARKHAND

GIRIDIH

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 %					
				.6	99.4					100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	243,960	51.0										
	Urban	7,864	1.6										
	Total	251,824	52.6		<i>H</i>	<i>M</i>					<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	2,124	0.4										
	Urban	319	0.1										
	Total	2,443	0.5		<i>H</i>	<i>M</i>					<i>L</i>		
Total - Category - A		254,267	53.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	181,102	37.9										
	Urban	34,752	7.3										
	Total	215,854	45.2		<i>M</i>	<i>L</i>					<i>L</i>		
Total - Category - B		215,854	45.1										
C1 - Concrete Wall	Rural	3,022	0.6										
	Urban	280	0.1										
	Total	3,302	0.7		<i>L</i>	<i>VL</i>					<i>VL</i>		
C2 - Wood wall	Rural	266	0.1										
	Urban	40	-										
	Total	306	0.1		<i>L</i>	<i>VL</i>					<i>M</i>		
Total - Category - C		3,608	0.8										
X - Other Materials	Rural	3,938	0.8										
	Urban	558	0.1										
	Total	4,496	0.9		<i>VL</i>	<i>VL</i>					<i>M</i>		
Total - Category - X		4,496	0.9										
TOTAL HOUSES*		478,225											

ROOF													
R1 - Light Weight Sloping Roof	Rural	35,537	7.4										
	Urban	4,052	0.8										
	Total	39,589	8.2		<i>M</i>	<i>L</i>					<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	251,338	52.6										
	Urban	10,581	2.2										
	Total	261,919	54.8		<i>M</i>	<i>L</i>					<i>L</i>		
R3 - Flat Roof	Rural	147,537	30.9										
	Urban	29,180	6.1										
	Total	176,717	37.0		Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		478,225											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 691 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