

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

Table No. : JD 06

State : JHARKHAND

GODDA

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 %						
				67.9	32.1			100						
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	137,859	49.4											
	Urban	1,941	0.7											
	Total	139,800	50.1		<i>H</i>	<i>M</i>			<i>H</i>					
A2 - Stone Wall not packed with mortar	Rural	1,016	0.4											
	Urban	76	-											
	Total	1,092	0.4		<i>H</i>	<i>M</i>			<i>M</i>					
Total - Category - A		140,892	50.5											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	103,877	37.3											
	Urban	11,459	4.1											
	Total	115,336	41.4		<i>M</i>	<i>L</i>			<i>M</i>					
Total - Category - B		115,336	41.4											
C1 - Concrete Wall	Rural	1,550	0.6											
	Urban	99	-											
	Total	1,649	0.6		<i>L</i>	<i>VL</i>			<i>VL</i>					
C2 - Wood wall	Rural	1,638	0.6											
	Urban	16	-											
	Total	1,654	0.6		<i>L</i>	<i>VL</i>			<i>H</i>					
Total - Category - C		3,303	1.2											
X - Other Materials	Rural	19,037	6.8											
	Urban	253	0.1											
	Total	19,290	6.9		<i>VL</i>	<i>VL</i>			<i>H</i>					
Total - Category - X		19,290	6.9											
TOTAL HOUSES*		278,821												

ROOF													
R1 - Light Weight Sloping Roof	Rural	122,111	43.8										
	Urban	2,269	0.8										
	Total	124,380	44.6		<i>M</i>	<i>L</i>			<i>VH</i>				
R2 - Heavy Weight Sloping Roof	Rural	72,500	26.0										
	Urban	2,332	0.8										
	Total	74,832	26.8		<i>M</i>	<i>L</i>			<i>M</i>				
R3 - Flat Roof	Rural	70,366	25.2										
	Urban	9,243	3.3										
	Total	79,609	28.5		<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		278,821											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 665 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