

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

Table No. : JD 16

State : JHARKHAND

RAMGARH

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 %				
						34.0	66.0			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	55,570	24.3									
	Urban	18,094	7.9									
	Total	73,664	32.2			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	989	0.4									
	Urban	1,071	0.5									
	Total	2,060	0.9			M	L			L		
Total - Category - A		75,724	33.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	65,703	28.7									
	Urban	81,146	35.5									
	Total	146,849	64.2			L	VL			L		
Total - Category - B		146,849	64.2									
C1 - Concrete Wall	Rural	1,063	0.5									
	Urban	1,585	0.7									
	Total	2,648	1.2			VL	VL			VL		
C2 - Wood wall	Rural	137	0.1									
	Urban	366	0.2									
	Total	503	0.3			VL	VL			M		
Total - Category - C		3,151	1.4									
X - Other Materials	Rural	1,539	0.7									
	Urban	1,405	0.6									
	Total	2,944	1.3			VL	VL			M		
Total - Category - X		2,944	1.3									
TOTAL HOUSES*		228,668										

ROOF												
R1 - Light Weight Sloping Roof	Rural	20,173	8.8									
	Urban	35,611	15.6									
	Total	55,784	24.4			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	61,361	26.8									
	Urban	16,678	7.3									
	Total	78,039	34.1			L	VL			L		
R3 - Flat Roof	Rural	43,467	19.0									
	Urban	51,378	22.5									
	Total	94,845	41.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		228,668										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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