

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

Table No. : BH 25

State : BIHAR

LAKHISARAI

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 %					
					100					93.2	6.8		44.1
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	56,059	28.2										
	Urban	5,759	2.9										
	Total	61,818	31.1		H				H	M		VH	
A2 - Stone Wall not packed with mortar	Rural	1,572	0.8										
	Urban	531	0.3										
	Total	2,103	1.1		H				M	L		VH	
Total - Category - A		63,921	32.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	91,947	46.2										
	Urban	21,367	10.7										
	Total	113,314	56.9		M				M	L		H/M	
Total - Category - B		113,314	57.0										
C1 - Concrete Wall	Rural	1,942	1.0										
	Urban	199	0.1										
	Total	2,141	1.1		L				VL	VL		L/VL	
C2 - Wood wall	Rural	534	0.3										
	Urban	160	0.1										
	Total	694	0.4		L				H	M		H	
Total - Category - C		2,835	1.4										
X - Other Materials	Rural	17,141	8.6										
	Urban	1,656	0.8										
	Total	18,797	9.4		VL				H	M		VH	
Total - Category - X		18,797	9.5										
TOTAL HOUSES*		198,867											

ROOF												
R1 - Light Weight Sloping Roof	Rural	46,899	23.6									
	Urban	4,731	2.4									
	Total	51,630	26.0		M				VH	H		VH
R2 - Heavy Weight Sloping Roof	Rural	43,141	21.7									
	Urban	7,271	3.7									
	Total	50,412	25.4		M				M	L		H
R3 - Flat Roof	Rural	79,155	39.8									
	Urban	17,670	8.9									
	Total	96,825	48.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		198,867										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **597 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