

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

Table No. : BH 20

State : BIHAR

BEGUSARAI

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
				100				100				23.4
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	131,960	18.6									
	Urban	22,521	3.2									
	Total	154,481	21.8		<i>H</i>				<i>H</i>			<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	4,703	0.7									
	Urban	1,935	0.3									
	Total	6,638	1.0		<i>H</i>				<i>M</i>			<i>VH</i>
Total - Category - A		161,119	22.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	279,764	39.5									
	Urban	88,425	12.5									
	Total	368,189	52.0		<i>M</i>				<i>M</i>			<i>H/M</i>
Total - Category - B		368,189	51.9									
C1 - Concrete Wall	Rural	5,411	0.8									
	Urban	2,165	0.3									
	Total	7,576	1.1		<i>L</i>				<i>VL</i>			<i>L/VL</i>
C2 - Wood wall	Rural	4,404	0.6									
	Urban	1,023	0.1									
	Total	5,427	0.7		<i>L</i>				<i>H</i>			<i>H</i>
Total - Category - C		13,003	1.8									
X - Other Materials	Rural	152,779	21.5									
	Urban	13,989	2.0									
	Total	166,768	23.5		<i>VL</i>				<i>H</i>			<i>VH</i>
Total - Category - X		166,768	23.5									
TOTAL HOUSES*		709,079										

ROOF												
R1 - Light Weight Sloping Roof	Rural	198,656	28.0									
	Urban	26,626	3.8									
	Total	225,282	31.8		<i>M</i>				<i>VH</i>			<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	199,290	28.1									
	Urban	31,477	4.4									
	Total	230,767	32.5		<i>M</i>				<i>M</i>			<i>H</i>
R3 - Flat Roof	Rural	181,075	25.5									
	Urban	71,955	10.1									
	Total	253,030	35.6		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		709,079										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 613 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