

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

Table No. : BH 32

State : BIHAR

ROHTAS

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				72.6	27.4		2.1	
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	174,980	30.0											
	Urban	13,661	2.3											
	Total	188,641	32.3				<i>M</i>			<i>H</i>	<i>M</i>	<i>VH</i>		
A2 - Stone Wall not packed with mortar	Rural	8,130	1.4											
	Urban	1,641	0.3											
	Total	9,771	1.7				<i>M</i>			<i>M</i>	<i>L</i>	<i>VH</i>		
Total - Category - A		198,412	34.0											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	287,509	49.2											
	Urban	68,592	11.7											
	Total	356,101	60.9				<i>L</i>			<i>M</i>	<i>L</i>	<i>H/M</i>		
Total - Category - B		356,101	61.0											
C1 - Concrete Wall	Rural	3,767	0.6											
	Urban	1,560	0.3											
	Total	5,327	0.9				<i>VL</i>			<i>VL</i>	<i>VL</i>	<i>L/VL</i>		
C2 - Wood wall	Rural	1,243	0.2											
	Urban	190	-											
	Total	1,433	0.2				<i>VL</i>			<i>H</i>	<i>M</i>	<i>H</i>		
Total - Category - C		6,760	1.2											
X - Other Materials	Rural	20,708	3.5											
	Urban	2,236	0.4											
	Total	22,944	3.9				<i>VL</i>			<i>H</i>	<i>M</i>	<i>VH</i>		
Total - Category - X		22,944	3.9											
TOTAL HOUSES*		584,217												

ROOF												
R1 - Light Weight Sloping Roof	Rural	110,232	18.9									
	Urban	14,538	2.5									
	Total	124,770	21.4				<i>L</i>			<i>VH</i>	<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	269,320	46.1									
	Urban	24,712	4.2									
	Total	294,032	50.3				<i>L</i>			<i>M</i>	<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	116,785	20.0									
	Urban	48,630	8.3									
	Total	165,415	28.3				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		584,217										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 523 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