

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

Table No. : BH 30

State : BIHAR

BUXAR

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		100		100		5.9
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	71,425	22.1									
	Urban	3,503	1.1									
	Total	74,928	23.2				<i>M</i>			<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	4,605	1.4									
	Urban	594	0.2									
	Total	5,199	1.6				<i>M</i>			<i>M</i>		<i>VH</i>
Total - Category - A		80,127	24.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	183,295	56.8									
	Urban	25,825	8.0									
	Total	209,120	64.8				<i>L</i>			<i>M</i>		<i>H/M</i>
Total - Category - B		209,120	64.8									
C1 - Concrete Wall	Rural	1,665	0.5									
	Urban	643	0.2									
	Total	2,308	0.7				<i>VL</i>			<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	1,170	0.4									
	Urban	174	0.1									
	Total	1,344	0.5				<i>VL</i>			<i>H</i>		<i>H</i>
Total - Category - C		3,652	1.1									
X - Other Materials	Rural	27,913	8.7									
	Urban	1,751	0.5									
	Total	29,664	9.2				<i>VL</i>			<i>H</i>		<i>VH</i>
Total - Category - X		29,664	9.2									
TOTAL HOUSES*		322,563										

ROOF												
R1 - Light Weight Sloping Roof	Rural	77,118	23.9									
	Urban	5,128	1.6									
	Total	82,246	25.5				<i>L</i>			<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	177,842	55.1									
	Urban	12,556	3.9									
	Total	190,398	59.0				<i>L</i>			<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	35,113	10.9									
	Urban	14,806	4.6									
	Total	49,919	15.5				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		322,563										

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