

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

Table No. : BH 26

State : BIHAR

SHEIKHPURA

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					85.8	14.2		57.3
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	34,742	27.5									
	Urban	4,383	3.5									
	Total	39,125	31.0		<i>H</i>				<i>H</i>	<i>M</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	1,738	1.4									
	Urban	358	0.3									
	Total	2,096	1.7		<i>H</i>					<i>M</i>	<i>L</i>	<i>VH</i>
Total - Category - A		41,221	32.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	58,251	46.2									
	Urban	16,228	12.9									
	Total	74,479	59.1		<i>M</i>					<i>M</i>	<i>L</i>	<i>H/M</i>
Total - Category - B		74,479	59.0									
C1 - Concrete Wall	Rural	687	0.5									
	Urban	456	0.4									
	Total	1,143	0.9		<i>L</i>					<i>VL</i>	<i>VL</i>	<i>L/VL</i>
C2 - Wood wall	Rural	194	0.2									
	Urban	98	0.1									
	Total	292	0.3		<i>L</i>					<i>H</i>	<i>M</i>	<i>H</i>
Total - Category - C		1,435	1.1									
X - Other Materials	Rural	8,133	6.4									
	Urban	874	0.7									
	Total	9,007	7.1		<i>VL</i>					<i>H</i>	<i>M</i>	<i>VH</i>
Total - Category - X		9,007	7.1									
TOTAL HOUSES*		126,142										

ROOF												
R1 - Light Weight Sloping Roof	Rural	31,336	24.8									
	Urban	3,757	3.0									
	Total	35,093	27.8		<i>M</i>					<i>VH</i>	<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	22,275	17.7									
	Urban	4,615	3.7									
	Total	26,890	21.4		<i>M</i>					<i>M</i>	<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	50,134	39.7									
	Urban	14,025	11.1									
	Total	64,159	50.8		Damage Risk as per that for the Wall supporting it							
TOTAL HOUSES*		126,142										

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