

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

Table No. : BH 34

State : BIHAR

GAYA

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				11.2	88.8		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	362,908	46.3										
	Urban	13,238	1.7										
	Total	376,146	48.0				<i>M</i>			<i>H</i>	<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	4,399	0.6										
	Urban	2,015	0.3										
	Total	6,414	0.9				<i>M</i>			<i>M</i>	<i>L</i>		
Total - Category - A		382,560	48.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	278,260	35.5										
	Urban	83,330	10.6										
	Total	361,590	46.1				<i>L</i>			<i>M</i>	<i>L</i>		
Total - Category - B		361,590	46.2										
C1 - Concrete Wall	Rural	5,629	0.7										
	Urban	3,119	0.4										
	Total	8,748	1.1				<i>VL</i>			<i>VL</i>	<i>VL</i>		
C2 - Wood wall	Rural	785	0.1										
	Urban	252	-										
	Total	1,037	0.1				<i>VL</i>			<i>H</i>	<i>M</i>		
Total - Category - C		9,785	1.2										
X - Other Materials	Rural	26,641	3.4										
	Urban	2,552	0.3										
	Total	29,193	3.7				<i>VL</i>			<i>H</i>	<i>M</i>		
Total - Category - X		29,193	3.7										
TOTAL HOUSES*		783,128											

ROOF												
R1 - Light Weight Sloping Roof	Rural	227,723	29.1									
	Urban	13,172	1.7									
	Total	240,895	30.8				<i>L</i>			<i>VH</i>	<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	252,231	32.2									
	Urban	21,275	2.7									
	Total	273,506	34.9				<i>L</i>			<i>M</i>	<i>L</i>	
R3 - Flat Roof	Rural	198,668	25.4									
	Urban	70,059	8.9									
	Total	268,727	34.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		783,128										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 578 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