

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

Table No. : BH 19

State : BIHAR

SAMASTIPUR

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					100					100			25.0
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	156,156	15.2										
	Urban	4,177	0.4										
	Total	160,333	15.6		H				H				VH
A2 - Stone Wall not packed with mortar	Rural	5,455	0.5										
	Urban	223	-										
	Total	5,678	0.5		H				M				VH
Total - Category - A		166,011	16.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	485,749	47.2										
	Urban	29,743	2.9										
	Total	515,492	50.1		M				M				H/M
Total - Category - B		515,492	50.1										
C1 - Concrete Wall	Rural	6,110	0.6										
	Urban	691	0.1										
	Total	6,801	0.7		L				VL				L/VL
C2 - Wood wall	Rural	8,258	0.8										
	Urban	632	0.1										
	Total	8,890	0.9		L				H				H
Total - Category - C		15,691	1.5										
X - Other Materials	Rural	327,493	31.8										
	Urban	4,210	0.4										
	Total	331,703	32.2		VL				H				VH
Total - Category - X		331,703	32.2										
TOTAL HOUSES*		1,028,897											

ROOF												
R1 - Light Weight Sloping Roof	Rural	426,729	41.5									
	Urban	9,452	0.9									
	Total	436,181	42.4		M				VH			VH
R2 - Heavy Weight Sloping Roof	Rural	332,265	32.3									
	Urban	5,888	0.6									
	Total	338,153	32.9		M				M			H
R3 - Flat Roof	Rural	230,227	22.4									
	Urban	24,336	2.4									
	Total	254,563	24.8	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		1,028,897										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **629 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