

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

Table No. : BH 09

State : BIHAR

PURNIA

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 %				
				4.7	95.3				100			24.1
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	26,901	3.4									
	Urban	2,355	0.3									
	Total	29,256	3.7	VH	H				H			VH
A2 - Stone Wall not packed with mortar	Rural	1,776	0.2									
	Urban	661	0.1									
	Total	2,437	0.3	VH	H				M			VH
Total - Category - A		31,693	4.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	128,099	16.3									
	Urban	42,652	5.4									
	Total	170,751	21.7	H	M				M			H/M
Total - Category - B		170,751	21.7									
C1 - Concrete Wall	Rural	2,005	0.3									
	Urban	498	0.1									
	Total	2,503	0.4	M	L				VL			L/VL
C2 - Wood wall	Rural	1,482	0.2									
	Urban	560	0.1									
	Total	2,042	0.3	M	L				H			H
Total - Category - C		4,545	0.6									
X - Other Materials	Rural	544,816	69.3									
	Urban	34,142	4.3									
	Total	578,958	73.6	M	VL				H			VH
Total - Category - X		578,958	73.7									
TOTAL HOUSES*		785,947										

ROOF												
R1 - Light Weight Sloping Roof	Rural	613,347	78.0									
	Urban	45,119	5.7									
	Total	658,466	83.7	M	M				VH			VH
R2 - Heavy Weight Sloping Roof	Rural	31,322	4.0									
	Urban	4,715	0.6									
	Total	36,037	4.6	H	M				M			H
R3 - Flat Roof	Rural	60,410	7.7									
	Urban	31,034	3.9									
	Total	91,444	11.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		785,947										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **736 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