

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

Table No. : BH 06

State : BIHAR

SUPAUL

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			58.3
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	18,935	3.2									
	Urban	997	0.2									
	Total	19,932	3.4	VH					H			VH
A2 - Stone Wall not packed with mortar	Rural	1,377	0.2									
	Urban	80	-									
	Total	1,457	0.2	VH					M			VH
Total - Category - A		21,389	3.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	113,976	19.3									
	Urban	12,503	2.1									
	Total	126,479	21.4	H					M			H/M
Total - Category - B		126,479	21.4									
C1 - Concrete Wall	Rural	1,312	0.2									
	Urban	401	0.1									
	Total	1,713	0.3	M					VL			L/VL
C2 - Wood wall	Rural	1,688	0.3									
	Urban	191	-									
	Total	1,879	0.3	M					H			H
Total - Category - C		3,592	0.6									
X - Other Materials	Rural	428,395	72.4									
	Urban	11,970	2.0									
	Total	440,365	74.4	M					H			VH
Total - Category - X		440,365	74.4									
TOTAL HOUSES*		591,825										

ROOF												
R1 - Light Weight Sloping Roof	Rural	487,029	82.3									
	Urban	16,145	2.7									
	Total	503,174	85.0	M					VH			VH
R2 - Heavy Weight Sloping Roof	Rural	37,196	6.3									
	Urban	1,243	0.2									
	Total	38,439	6.5	H					M			H
R3 - Flat Roof	Rural	41,458	7.0									
	Urban	8,754	1.5									
	Total	50,212	8.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		591,825										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **729 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