

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

Table No. : BH 33

State : BIHAR

AURANGABAD

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				34.4		65.6	11.3	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	198,090	42.8									
	Urban	7,806	1.7									
	Total	205,896	44.5				<i>M</i>			<i>H</i>	<i>M</i>	<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	3,530	0.8									
	Urban	958	0.2									
	Total	4,488	1.0				<i>M</i>			<i>M</i>	<i>L</i>	<i>VH</i>
Total - Category - A		210,384	45.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	189,214	40.9									
	Urban	34,449	7.4									
	Total	223,663	48.3				<i>L</i>			<i>M</i>	<i>L</i>	<i>H/M</i>
Total - Category - B		223,663	48.3									
C1 - Concrete Wall	Rural	3,636	0.8									
	Urban	1,212	0.3									
	Total	4,848	1.1				<i>VL</i>			<i>VL</i>	<i>VL</i>	<i>L/VL</i>
C2 - Wood wall	Rural	862	0.2									
	Urban	193	-									
	Total	1,055	0.2				<i>VL</i>			<i>H</i>	<i>M</i>	<i>H</i>
Total - Category - C		5,903	1.3									
X - Other Materials	Rural	21,714	4.7									
	Urban	1,516	0.3									
	Total	23,230	5.0				<i>VL</i>			<i>H</i>	<i>M</i>	<i>VH</i>
Total - Category - X		23,230	5.0									
TOTAL HOUSES*		463,180										

ROOF												
R1 - Light Weight Sloping Roof	Rural	129,874	28.0									
	Urban	7,201	1.6									
	Total	137,075	29.6				<i>L</i>			<i>VH</i>	<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	146,391	31.6									
	Urban	9,140	2.0									
	Total	155,531	33.6				<i>L</i>			<i>M</i>	<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	140,781	30.4									
	Urban	29,793	6.4									
	Total	170,574	36.8				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		463,180										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 530 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