

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

Table No. : MP 15

State : MADHYA PRADESH

NEEMUCH

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			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	50,252	22.4									
	Urban	7,811	3.5									
	Total	58,063	25.9				L		H			
A2 - Stone Wall not packed with mortar	Rural	17,000	7.6									
	Urban	6,417	2.9									
	Total	23,417	10.5				L		M			
Total - Category - A		81,480	36.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	93,152	41.6									
	Urban	45,220	20.2									
	Total	138,372	61.8				VL		M			
Total - Category - B		138,372	61.7									
C1 - Concrete Wall	Rural	364	0.2									
	Urban	453	0.2									
	Total	817	0.4				VL		VL			
C2 - Wood wall	Rural	613	0.3									
	Urban	339	0.2									
	Total	952	0.5				VL		H			
Total - Category - C		1,769	0.8									
X - Other Materials	Rural	2,051	0.9									
	Urban	517	0.2									
	Total	2,568	1.1				VL		H			
Total - Category - X		2,568	1.1									
TOTAL HOUSES*		224,189										

ROOF												
R1 - Light Weight Sloping Roof	Rural	29,821	13.3									
	Urban	9,321	4.2									
	Total	39,142	17.5				VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	119,653	53.4									
	Urban	36,819	16.4									
	Total	156,472	69.8				VL		M			
R3 - Flat Roof	Rural	13,958	6.2									
	Urban	14,617	6.5									
	Total	28,575	12.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		224,189										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **427 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