

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

Table No. : MP 39

State : MADHYA PRADESH

SEONI

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 %					
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	241,790	66.3										
	Urban	11,822	3.2										
	Total	253,612	69.5					<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	954	0.3										
	Urban	209	0.1										
	Total	1,163	0.4					<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		254,775	69.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	66,892	18.3										
	Urban	28,554	7.8										
	Total	95,446	26.1					<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		95,446	26.2										
C1 - Concrete Wall	Rural	1,525	0.4										
	Urban	1,285	0.4										
	Total	2,810	0.8					<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	4,826	1.3										
	Urban	197	0.1										
	Total	5,023	1.4					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		7,833	2.1										
X - Other Materials	Rural	5,840	1.6										
	Urban	1,071	0.3										
	Total	6,911	1.9					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		6,911	1.9										
TOTAL HOUSES*		364,965											

ROOF													
R1 - Light Weight Sloping Roof	Rural	26,015	7.1										
	Urban	4,236	1.2										
	Total	30,251	8.3					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	269,396	73.8										
	Urban	15,326	4.2										
	Total	284,722	78.0					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	26,416	7.2										
	Urban	23,576	6.5										
	Total	49,992	13.7	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		364,965											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 482 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