

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

**Table No. : MP 28**

**State : MADHYA PRADESH**

**SEHORE**

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 %							
								36.0	64.0			46.8	53.2		
<b>WALL</b>															
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	94,150	30.0												
	Urban	9,998	3.2												
	<b>Total</b>	<b>104,148</b>	<b>33.2</b>					<i>M</i>	<i>L</i>			<i>H</i>	<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	1,555	0.5												
	Urban	415	0.1												
	<b>Total</b>	<b>1,970</b>	<b>0.6</b>					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>		
<b>Total - Category - A</b>		<b>106,118</b>	<b>33.8</b>												
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	134,207	42.7												
	Urban	41,372	13.2												
	<b>Total</b>	<b>175,579</b>	<b>55.9</b>					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>		
<b>Total - Category - B</b>		<b>175,579</b>	<b>55.9</b>												
<b>C1 - Concrete Wall</b>	Rural	1,635	0.5												
	Urban	517	0.2												
	<b>Total</b>	<b>2,152</b>	<b>0.7</b>					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	6,079	1.9												
	Urban	263	0.1												
	<b>Total</b>	<b>6,342</b>	<b>2.0</b>					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>		
<b>Total - Category - C</b>		<b>8,494</b>	<b>2.7</b>												
<b>X - Other Materials</b>	Rural	21,935	7.0												
	Urban	1,939	0.6												
	<b>Total</b>	<b>23,874</b>	<b>7.6</b>					<i>VL</i>	<i>VL</i>			<i>H</i>	<i>M</i>		
<b>Total - Category - X</b>		<b>23,874</b>	<b>7.6</b>												
<b>TOTAL HOUSES*</b>		<b>314,065</b>													

ROOF													
<b>R1 - Light Weight Sloping Roof</b>	Rural	40,580	12.9										
	Urban	13,992	4.5										
	<b>Total</b>	<b>54,572</b>	<b>17.4</b>					<i>L</i>	<i>VL</i>			<i>VH</i>	<i>H</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	182,766	58.2										
	Urban	12,888	4.1										
	<b>Total</b>	<b>195,654</b>	<b>62.3</b>					<i>L</i>	<i>VL</i>			<i>M</i>	<i>L</i>
<b>R3 - Flat Roof</b>	Rural	36,215	11.5										
	Urban	27,624	8.8										
	<b>Total</b>	<b>63,839</b>	<b>20.3</b>	<i>Damage Risk as per that for the Wall supporting it</i>									
<b>TOTAL HOUSES*</b>		<b>314,065</b>											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 478 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