

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

**Table No. : MP 36**

**State : MADHYA PRADESH**

**DINDORI**

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 %						
								25.2	74.8			100		
<b>WALL</b>														
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	158,503	71.4											
	Urban	2,798	1.3											
	<b>Total</b>	<b>161,301</b>	<b>72.7</b>					<i>M</i>	<i>L</i>			<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	438	0.2											
	Urban	99	-											
	<b>Total</b>	<b>537</b>	<b>0.2</b>					<i>M</i>	<i>L</i>			<i>L</i>		
<b>Total - Category - A</b>		<b>161,838</b>	<b>72.9</b>											
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	39,267	17.7											
	Urban	5,356	2.4											
	<b>Total</b>	<b>44,623</b>	<b>20.1</b>					<i>L</i>	<i>VL</i>			<i>L</i>		
<b>Total - Category - B</b>		<b>44,623</b>	<b>20.1</b>											
<b>C1 - Concrete Wall</b>	Rural	701	0.3											
	Urban	120	0.1											
	<b>Total</b>	<b>821</b>	<b>0.4</b>					<i>VL</i>	<i>VL</i>			<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	7,308	3.3											
	Urban	16	-											
	<b>Total</b>	<b>7,324</b>	<b>3.3</b>					<i>VL</i>	<i>VL</i>			<i>M</i>		
<b>Total - Category - C</b>		<b>8,145</b>	<b>3.7</b>											
<b>X - Other Materials</b>	Rural	7,008	3.2											
	Urban	516	0.2											
	<b>Total</b>	<b>7,524</b>	<b>3.4</b>					<i>VL</i>	<i>VL</i>			<i>M</i>		
<b>Total - Category - X</b>		<b>7,524</b>	<b>3.4</b>											
<b>TOTAL HOUSES*</b>		<b>222,130</b>												

ROOF													
<b>R1 - Light Weight Sloping Roof</b>	Rural	39,446	17.8										
	Urban	1,865	0.8										
	<b>Total</b>	<b>41,311</b>	<b>18.6</b>					<i>L</i>	<i>VL</i>			<i>H</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	163,329	73.5										
	Urban	3,358	1.5										
	<b>Total</b>	<b>166,687</b>	<b>75.0</b>					<i>L</i>	<i>VL</i>			<i>L</i>	
<b>R3 - Flat Roof</b>	Rural	10,450	4.7										
	Urban	3,682	1.7										
	<b>Total</b>	<b>14,132</b>	<b>6.4</b>	Damage Risk as per that for the Wall supporting it									
<b>TOTAL HOUSES*</b>		<b>222,130</b>											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 448 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