

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

**Table No. : MP 25**

**State : MADHYA PRADESH**

**RAJGARH**

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	182,254	47.3									
	Urban	17,397	4.5									
	Total	199,651	51.8				L		H			
A2 - Stone Wall not packed with mortar	Rural	4,534	1.2									
	Urban	520	0.1									
	Total	5,054	1.3				L		M			
Total - Category - A		204,705	53.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	123,961	32.2									
	Urban	44,103	11.5									
	Total	168,064	43.7				VL		M			
Total - Category - B		168,064	43.6									
C1 - Concrete Wall	Rural	1,739	0.5									
	Urban	600	0.2									
	Total	2,339	0.7				VL		VL			
C2 - Wood wall	Rural	775	0.2									
	Urban	141	-									
	Total	916	0.2				VL		H			
Total - Category - C		3,255	0.8									
X - Other Materials	Rural	7,896	2.1									
	Urban	1,213	0.3									
	Total	9,109	2.4				VL		H			
Total - Category - X		9,109	2.4									
TOTAL HOUSES*		385,133										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	44,788	11.6									
	Urban	14,614	3.8									
	<b>Total</b>	<b>59,402</b>	<b>15.4</b>				VL		VH			
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	238,800	62.0									
	Urban	25,173	6.5									
	<b>Total</b>	<b>263,973</b>	<b>68.5</b>				VL		M			
<b>R3 - Flat Roof</b>	Rural	37,571	9.8									
	Urban	24,187	6.3									
	<b>Total</b>	<b>61,758</b>	<b>16.1</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>385,133</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **446 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