

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

Table No. : MP 34

State : MADHYA PRADESH

JABALPUR

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	156,284	26.8										
	Urban	66,952	11.5										
	Total	223,236	38.3					<i>M</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	1,561	0.3										
	Urban	3,544	0.6										
	Total	5,105	0.9					<i>M</i>			<i>L</i>		
Total - Category - A		228,341	39.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	94,340	16.2										
	Urban	233,924	40.2										
	Total	328,264	56.4					<i>L</i>			<i>L</i>		
Total - Category - B		328,264	56.3										
C1 - Concrete Wall	Rural	1,621	0.3										
	Urban	9,839	1.7										
	Total	11,460	2.0					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	635	0.1										
	Urban	687	0.1										
	Total	1,322	0.2					<i>VL</i>			<i>M</i>		
Total - Category - C		12,782	2.2										
X - Other Materials	Rural	6,461	1.1										
	Urban	6,766	1.2										
	Total	13,227	2.3					<i>VL</i>			<i>M</i>		
Total - Category - X		13,227	2.3										
TOTAL HOUSES*		582,614											

ROOF													
R1 - Light Weight Sloping Roof	Rural	45,564	7.8										
	Urban	51,598	8.9										
	Total	97,162	16.7					<i>L</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	173,312	29.7										
	Urban	84,054	14.4										
	Total	257,366	44.1					<i>L</i>			<i>L</i>		
R3 - Flat Roof	Rural	42,026	7.2										
	Urban	186,060	31.9										
	Total	228,086	39.1	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		582,614											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 507 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