

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

Table No. : MP 50

State : MADHYA PRADESH

BURHANPUR

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	43,612	26.0										
	Urban	19,960	11.9										
	Total	63,572	37.9					<i>M</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	381	0.2										
	Urban	455	0.3										
	Total	836	0.5					<i>M</i>			<i>L</i>		
Total - Category - A		64,408	38.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	33,708	20.1										
	Urban	32,463	19.4										
	Total	66,171	39.5					<i>L</i>			<i>L</i>		
Total - Category - B		66,171	39.5										
C1 - Concrete Wall	Rural	2,046	1.2										
	Urban	2,274	1.4										
	Total	4,320	2.6					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	2,469	1.5										
	Urban	384	0.2										
	Total	2,853	1.7					<i>VL</i>			<i>M</i>		
Total - Category - C		7,173	4.3										
X - Other Materials	Rural	27,403	16.3										
	Urban	2,462	1.5										
	Total	29,865	17.8					<i>VL</i>			<i>M</i>		
Total - Category - X		29,865	17.8										
TOTAL HOUSES*		167,617											

ROOF													
R1 - Light Weight Sloping Roof	Rural	73,069	43.6										
	Urban	34,888	20.8										
	Total	107,957	64.4					<i>L</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	22,739	13.6										
	Urban	2,646	1.6										
	Total	25,385	15.2					<i>L</i>			<i>L</i>		
R3 - Flat Roof	Rural	13,811	8.2										
	Urban	20,464	12.2										
	Total	34,275	20.4	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		167,617											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 452 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