

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

Table No. : MP 40

State : MADHYA PRADESH

BALAGHAT

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 %					
WALL								100			100		
A1 - Mud & Unburnt Brick Wall	Rural	334,926	74.4										
	Urban	26,846	6.0										
	Total	361,772	80.4					<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	412	0.1										
	Urban	155	-										
	Total	567	0.1					<i>L</i>			<i>L</i>		
Total - Category - A		362,339	80.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	44,102	9.8										
	Urban	34,492	7.7										
	Total	78,594	17.5					<i>VL</i>			<i>L</i>		
Total - Category - B		78,594	17.5										
C1 - Concrete Wall	Rural	763	0.2										
	Urban	868	0.2										
	Total	1,631	0.4					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	489	0.1										
	Urban	125	-										
	Total	614	0.1					<i>VL</i>			<i>M</i>		
Total - Category - C		2,245	0.5										
X - Other Materials	Rural	5,530	1.2										
	Urban	1,318	0.3										
	Total	6,848	1.5					<i>VL</i>			<i>M</i>		
Total - Category - X		6,848	1.5										
TOTAL HOUSES*		450,026											

ROOF													
R1 - Light Weight Sloping Roof	Rural	30,381	6.8										
	Urban	5,358	1.2										
	Total	35,739	8.0					<i>VL</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	331,448	73.7										
	Urban	31,888	7.1										
	Total	363,336	80.8					<i>VL</i>			<i>L</i>		
R3 - Flat Roof	Rural	24,393	5.4										
	Urban	26,558	5.9										
	Total	50,951	11.3	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		450,026											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 481 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