

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

Table No. : MP 49

State : MADHYA PRADESH

EAST NIMAR

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	116,331	37.9										
	Urban	14,361	4.7										
	Total	130,692	42.6					<i>M</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	1,893	0.6										
	Urban	718	0.2										
	Total	2,611	0.8					<i>M</i>			<i>L</i>		
Total - Category - A		133,303	43.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	83,153	27.1										
	Urban	36,136	11.8										
	Total	119,289	38.9					<i>L</i>			<i>L</i>		
Total - Category - B		119,289	38.8										
C1 - Concrete Wall	Rural	2,708	0.9										
	Urban	2,644	0.9										
	Total	5,352	1.8					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	1,538	0.5										
	Urban	520	0.2										
	Total	2,058	0.7					<i>VL</i>			<i>M</i>		
Total - Category - C		7,410	2.4										
X - Other Materials	Rural	43,711	14.2										
	Urban	3,485	1.1										
	Total	47,196	15.3					<i>VL</i>			<i>M</i>		
Total - Category - X		47,196	15.4										
TOTAL HOUSES*		307,198											

ROOF													
R1 - Light Weight Sloping Roof	Rural	130,526	42.5										
	Urban	23,912	7.8										
	Total	154,438	50.3					<i>L</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	95,867	31.2										
	Urban	9,258	3.0										
	Total	105,125	34.2					<i>L</i>			<i>L</i>		
R3 - Flat Roof	Rural	22,941	7.5										
	Urban	24,694	8.0										
	Total	47,635	15.5					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		307,198											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 431 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