

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

Table No. : MP 44

State : MADHYA PRADESH

ANUPPUR

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 %						
						44.5	55.5			100				
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	111,819	57.9											
	Urban	15,145	7.8											
	Total	126,964	65.7					<i>M</i>	<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	282	0.1											
	Urban	353	0.2											
	Total	635	0.3					<i>M</i>	<i>L</i>			<i>L</i>		
Total - Category - A		127,599	66.1											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	25,507	13.2											
	Urban	34,493	17.9											
	Total	60,000	31.1					<i>L</i>	<i>VL</i>			<i>L</i>		
Total - Category - B		60,000	31.1											
C1 - Concrete Wall	Rural	459	0.2											
	Urban	591	0.3											
	Total	1,050	0.5					<i>VL</i>	<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	662	0.3											
	Urban	145	0.1											
	Total	807	0.4					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - C		1,857	1.0											
X - Other Materials	Rural	2,555	1.3											
	Urban	1,037	0.5											
	Total	3,592	1.8					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - X		3,592	1.9											
TOTAL HOUSES*		193,048												

ROOF													
R1 - Light Weight Sloping Roof	Rural	29,202	15.1										
	Urban	13,965	7.2										
	Total	43,167	22.3					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	100,651	52.1										
	Urban	15,411	8.0										
	Total	116,062	60.1					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	11,431	5.9										
	Urban	22,388	11.6										
	Total	33,819	17.5	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		193,048											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 401 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