

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

Table No. : MP 07

State : MADHYA PRADESH

TIKAMGARH

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	108,823	30.2										
	Urban	11,915	3.3										
	Total	120,738	33.5					<i>L</i>		<i>H</i>			
A2 - Stone Wall not packed with mortar	Rural	2,061	0.6										
	Urban	653	0.2										
	Total	2,714	0.8					<i>L</i>		<i>M</i>			
Total - Category - A		123,452	34.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	187,286	52.0										
	Urban	40,185	11.2										
	Total	227,471	63.2					<i>VL</i>		<i>M</i>			
Total - Category - B		227,471	63.2										
C1 - Concrete Wall	Rural	2,127	0.6										
	Urban	595	0.2										
	Total	2,722	0.8					<i>VL</i>		<i>VL</i>			
C2 - Wood wall	Rural	203	0.1										
	Urban	43	-										
	Total	246	0.1					<i>VL</i>		<i>H</i>			
Total - Category - C		2,968	0.8										
X - Other Materials	Rural	5,170	1.4										
	Urban	922	0.3										
	Total	6,092	1.7					<i>VL</i>		<i>H</i>			
Total - Category - X		6,092	1.7										
TOTAL HOUSES*		359,983											

ROOF													
R1 - Light Weight Sloping Roof	Rural	17,664	4.9										
	Urban	3,371	0.9										
	Total	21,035	5.8					<i>VL</i>		<i>VH</i>			
R2 - Heavy Weight Sloping Roof	Rural	250,000	69.4										
	Urban	22,784	6.3										
	Total	272,784	75.7					<i>VL</i>		<i>M</i>			
R3 - Flat Roof	Rural	38,006	10.6										
	Urban	28,158	7.8										
	Total	66,164	18.4	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		359,983											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 536 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