

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

Table No. : MP 29

State : MADHYA PRADESH

RAISEN

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 %					
						34.1	65.9			19.6	80.4		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	137,129	43.9										
	Urban	16,215	5.2										
	Total	153,344	49.1					<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	10,883	3.5										
	Urban	1,501	0.5										
	Total	12,384	4.0					<i>M</i>	<i>L</i>		<i>M</i>	<i>L</i>	
Total - Category - A		165,728	53.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	70,067	22.4										
	Urban	47,404	15.2										
	Total	117,471	37.6					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>	
Total - Category - B		117,471	37.6										
C1 - Concrete Wall	Rural	955	0.3										
	Urban	876	0.3										
	Total	1,831	0.6					<i>VL</i>	<i>VL</i>		<i>VL</i>	<i>VL</i>	
C2 - Wood wall	Rural	9,843	3.2										
	Urban	464	0.1										
	Total	10,307	3.3					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>	
Total - Category - C		12,138	3.9										
X - Other Materials	Rural	14,083	4.5										
	Urban	2,867	0.9										
	Total	16,950	5.4					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>	
Total - Category - X		16,950	5.4										
TOTAL HOUSES*				312,287									

ROOF													
R1 - Light Weight Sloping Roof	Rural	28,663	9.2										
	Urban	14,338	4.6										
	Total	43,001	13.8					<i>L</i>	<i>VL</i>		<i>VH</i>	<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	188,900	60.5										
	Urban	22,970	7.4										
	Total	211,870	67.9					<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>	
R3 - Flat Roof	Rural	25,397	8.1										
	Urban	32,019	10.3										
	Total	57,416	18.4					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*				312,287									

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 601 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