

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

Table No. : MP 45

State : MADHYA PRADESH

SIDHI

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 %					
						53.3	46.7			100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	203,364	77.3										
	Urban	8,433	3.2										
	Total	211,797	80.5					<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	2,086	0.8										
	Urban	175	0.1										
	Total	2,261	0.9					<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		214,058	81.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	30,530	11.6										
	Urban	13,271	5.0										
	Total	43,801	16.6					<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		43,801	16.7										
C1 - Concrete Wall	Rural	493	0.2										
	Urban	360	0.1										
	Total	853	0.3					<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	271	0.1										
	Urban	9	-										
	Total	280	0.1					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		1,133	0.4										
X - Other Materials	Rural	3,580	1.4										
	Urban	359	0.1										
	Total	3,939	1.5					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		3,939	1.5										
TOTAL HOUSES*		262,931											

ROOF													
R1 - Light Weight Sloping Roof	Rural	53,502	20.3										
	Urban	2,589	1.0										
	Total	56,091	21.3					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	168,018	63.9										
	Urban	8,836	3.4										
	Total	176,854	67.3					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	18,804	7.2										
	Urban	11,182	4.3										
	Total	29,986	11.5	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		262,931											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 523 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