

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

Table No. : MP 46

State : MADHYA PRADESH

SINGRAULI

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 %						
								97.0	3.0			100		
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	191,015	72.8											
	Urban	12,504	4.8											
	Total	203,519	77.6					<i>M</i>	<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	1,387	0.5											
	Urban	603	0.2											
	Total	1,990	0.7					<i>M</i>	<i>L</i>			<i>L</i>		
Total - Category - A		205,509	78.3											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	17,407	6.6											
	Urban	35,067	13.4											
	Total	52,474	20.0					<i>L</i>	<i>VL</i>			<i>L</i>		
Total - Category - B		52,474	20.0											
C1 - Concrete Wall	Rural	130	-											
	Urban	593	0.2											
	Total	723	0.2					<i>VL</i>	<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	145	0.1											
	Urban	71	-											
	Total	216	0.1					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - C		939	0.4											
X - Other Materials	Rural	2,192	0.8											
	Urban	1,422	0.5											
	Total	3,614	1.3					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - X		3,614	1.4											
TOTAL HOUSES*		262,536												

ROOF													
R1 - Light Weight Sloping Roof	Rural	51,321	19.5										
	Urban	14,885	5.7										
	Total	66,206	25.2					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	149,678	57.0										
	Urban	9,635	3.7										
	Total	159,313	60.7					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	11,277	4.3										
	Urban	25,740	9.8										
	Total	37,017	14.1	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		262,536											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 438 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