

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

Table No. : MP 41

State : MADHYA PRADESH

GUNA

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	138,226	50.6									
	Urban	19,684	7.2									
	Total	157,910	57.8					<i>L</i>		<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	6,786	2.5									
	Urban	715	0.3									
	Total	7,501	2.8					<i>L</i>		<i>M</i>		
Total - Category - A		165,411	60.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	52,813	19.3									
	Urban	43,612	16.0									
	Total	96,425	35.3					<i>VL</i>		<i>M</i>		
Total - Category - B		96,425	35.3									
C1 - Concrete Wall	Rural	432	0.2									
	Urban	1,187	0.4									
	Total	1,619	0.6					<i>VL</i>		<i>VL</i>		
C2 - Wood wall	Rural	1,290	0.5									
	Urban	81	-									
	Total	1,371	0.5					<i>VL</i>		<i>H</i>		
Total - Category - C		2,990	1.1									
X - Other Materials	Rural	6,937	2.5									
	Urban	1,614	0.6									
	Total	8,551	3.1					<i>VL</i>		<i>H</i>		
Total - Category - X		8,551	3.1									
TOTAL HOUSES*		273,377										

ROOF												
R1 - Light Weight Sloping Roof	Rural	37,118	13.6									
	Urban	12,837	4.7									
	Total	49,955	18.3					<i>VL</i>		<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	149,808	54.8									
	Urban	25,143	9.2									
	Total	174,951	64.0					<i>VL</i>		<i>M</i>		
R3 - Flat Roof	Rural	19,558	7.2									
	Urban	28,913	10.6									
	Total	48,471	17.8	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		273,377										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 513 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