

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

Table No. : MP 33

State : MADHYA PRADESH

KATNI

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 %				
						46.0	54.0			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	185,734	56.6									
	Urban	12,186	3.7									
	Total	197,920	60.3			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	2,743	0.8									
	Urban	704	0.2									
	Total	3,447	1.0			M	L			L		
Total - Category - A		201,367	61.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	69,301	21.1									
	Urban	51,942	15.8									
	Total	121,243	36.9			L	VL			L		
Total - Category - B		121,243	37.0									
C1 - Concrete Wall	Rural	611	0.2									
	Urban	379	0.1									
	Total	990	0.3			VL	VL			VL		
C2 - Wood wall	Rural	235	0.1									
	Urban	60	-									
	Total	295	0.1			VL	VL			M		
Total - Category - C		1,285	0.4									
X - Other Materials	Rural	3,330	1.0									
	Urban	792	0.2									
	Total	4,122	1.2			VL	VL			M		
Total - Category - X		4,122	1.3									
TOTAL HOUSES*		328,017										
ROOF												
R1 - Light Weight Sloping Roof	Rural	37,609	11.5									
	Urban	9,368	2.9									
	Total	46,977	14.4			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	192,025	58.5									
	Urban	30,216	9.2									
	Total	222,241	67.7			L	VL			L		
R3 - Flat Roof	Rural	32,320	9.9									
	Urban	26,479	8.1									
	Total	58,799	18.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		328,017										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **478 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