

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

Table No. : MP 48

State : MADHYA PRADESH

ALIRAJPUR

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 %				
						98.3	1.7			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	72,617	49.7									
	Urban	2,997	2.1									
	Total	75,614	51.8			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	648	0.4									
	Urban	53	-									
	Total	701	0.4			M	L			L		
Total - Category - A		76,315	52.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	43,465	29.8									
	Urban	9,434	6.5									
	Total	52,899	36.3			L	VL			L		
Total - Category - B		52,899	36.2									
C1 - Concrete Wall	Rural	369	0.3									
	Urban	63	-									
	Total	432	0.3			VL	VL			VL		
C2 - Wood wall	Rural	4,828	3.3									
	Urban	45	-									
	Total	4,873	3.3			VL	VL			M		
Total - Category - C		5,305	3.6									
X - Other Materials	Rural	11,158	7.6									
	Urban	305	0.2									
	Total	11,463	7.8			VL	VL			M		
Total - Category - X		11,463	7.9									
TOTAL HOUSES*		145,982										

ROOF												
R1 - Light Weight Sloping Roof	Rural	23,565	16.1									
	Urban	2,849	2.0									
	Total	26,414	18.1			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	100,493	68.8									
	Urban	3,067	2.1									
	Total	103,560	70.9			L	VL			L		
R3 - Flat Roof	Rural	9,027	6.2									
	Urban	6,981	4.8									
	Total	16,008	11.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		145,982										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **492 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