

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

Table No. : MP 23

State : MADHYA PRADESH

WEST NIMAR

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 %				
						100				100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	158,708	36.7									
	Urban	15,382	3.6									
	Total	174,090	40.3			M				M		
A2 - Stone Wall not packed with mortar	Rural	1,456	0.3									
	Urban	436	0.1									
	Total	1,892	0.4			M				L		
Total - Category - A		175,982	40.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	124,596	28.8									
	Urban	49,550	11.5									
	Total	174,146	40.3			L				L		
Total - Category - B		174,146	40.3									
C1 - Concrete Wall	Rural	2,893	0.7									
	Urban	1,125	0.3									
	Total	4,018	1.0			VL				VL		
C2 - Wood wall	Rural	4,977	1.2									
	Urban	118	-									
	Total	5,095	1.2			VL				M		
Total - Category - C		9,113	2.1									
X - Other Materials	Rural	70,955	16.4									
	Urban	2,232	0.5									
	Total	73,187	16.9			VL				M		
Total - Category - X		73,187	16.9									
TOTAL HOUSES*		432,428										

ROOF												
R1 - Light Weight Sloping Roof	Rural	198,595	45.9									
	Urban	28,872	6.7									
	Total	227,467	52.6			L				H		
R2 - Heavy Weight Sloping Roof	Rural	127,613	29.5									
	Urban	6,854	1.6									
	Total	134,467	31.1			L				L		
R3 - Flat Roof	Rural	37,377	8.6									
	Urban	33,117	7.7									
	Total	70,494	16.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		432,428										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **530 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