

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

Table No. : MP 19

State : MADHYA PRADESH

SHAJAPUR

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	169,326	46.2									
	Urban	17,312	4.7									
	Total	186,638	50.9				L		H			
A2 - Stone Wall not packed with mortar	Rural	1,924	0.5									
	Urban	379	0.1									
	Total	2,303	0.6				L		M			
Total - Category - A		188,941	51.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	117,526	32.1									
	Urban	48,602	13.3									
	Total	166,128	45.4				VL		M			
Total - Category - B		166,128	45.3									
C1 - Concrete Wall	Rural	1,432	0.4									
	Urban	517	0.1									
	Total	1,949	0.5				VL		VL			
C2 - Wood wall	Rural	676	0.2									
	Urban	151	-									
	Total	827	0.2				VL		H			
Total - Category - C		2,776	0.8									
X - Other Materials	Rural	7,841	2.1									
	Urban	986	0.3									
	Total	8,827	2.4				VL		H			
Total - Category - X		8,827	2.4									
TOTAL HOUSES*		366,672										

ROOF												
R1 - Light Weight Sloping Roof	Rural	52,109	14.2									
	Urban	16,004	4.4									
	Total	68,113	18.6				VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	205,059	55.9									
	Urban	25,925	7.1									
	Total	230,984	63.0				VL		M			
R3 - Flat Roof	Rural	41,557	11.3									
	Urban	26,018	7.1									
	Total	67,575	18.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		366,672										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **486 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