

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

Table No. : MH 08

State : MAHARASHTRA

WARDHA

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 %				
						.5	99.5			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	109,973	30.6									
	Urban	19,624	5.5									
	Total	129,597	36.1			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	6,054	1.7									
	Urban	1,733	0.5									
	Total	7,787	2.2			M	L			L		
Total - Category - A		137,384	38.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	92,849	25.8									
	Urban	75,713	21.1									
	Total	168,562	46.9			L	VL			L		
Total - Category - B		168,562	46.9									
C1 - Concrete Wall	Rural	7,369	2.1									
	Urban	6,076	1.7									
	Total	13,445	3.8			VL	VL			VL		
C2 - Wood wall	Rural	1,251	0.3									
	Urban	428	0.1									
	Total	1,679	0.4			VL	VL			M		
Total - Category - C		15,124	4.2									
X - Other Materials	Rural	33,025	9.2									
	Urban	5,338	1.5									
	Total	38,363	10.7			VL	VL			M		
Total - Category - X		38,363	10.7									
TOTAL HOUSES*		359,433										

ROOF												
R1 - Light Weight Sloping Roof	Rural	88,288	24.6									
	Urban	23,640	6.6									
	Total	111,928	31.2			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	109,079	30.3									
	Urban	19,264	5.4									
	Total	128,343	35.7			L	VL			L		
R3 - Flat Roof	Rural	53,154	14.8									
	Urban	66,008	18.4									
	Total	119,162	33.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		359,433										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **537 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