

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

Table No. : MH 17

State : MAHARASHTRA

PARBHANI

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	87,899	21.7									
	Urban	20,564	5.1									
	Total	108,463	26.8				L			M		
A2 - Stone Wall not packed with mortar	Rural	18,235	4.5									
	Urban	4,168	1.0									
	Total	22,403	5.5				L			L		
Total - Category - A		130,866	32.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	136,363	33.6									
	Urban	78,225	19.3									
	Total	214,588	52.9				VL			L		
Total - Category - B		214,588	52.9									
C1 - Concrete Wall	Rural	8,832	2.2									
	Urban	8,027	2.0									
	Total	16,859	4.2				VL			VL		
C2 - Wood wall	Rural	2,796	0.7									
	Urban	6,401	1.6									
	Total	9,197	2.3				VL			M		
Total - Category - C		26,056	6.4									
X - Other Materials	Rural	26,997	6.7									
	Urban	7,130	1.8									
	Total	34,127	8.5				VL			M		
Total - Category - X		34,127	8.4									
TOTAL HOUSES*		405,637										

ROOF												
R1 - Light Weight Sloping Roof	Rural	227,027	56.0									
	Urban	63,915	15.8									
	Total	290,942	71.8				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	19,794	4.9									
	Urban	6,537	1.6									
	Total	26,331	6.5				VL			L		
R3 - Flat Roof	Rural	34,301	8.5									
	Urban	54,063	13.3									
	Total	88,364	21.8	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		405,637										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **426 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