

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

Table No. : MH 27

State : MAHARASHTRA

BID

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 %				
						50.7	49.3			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	109,134	17.0									
	Urban	14,272	2.2									
	Total	123,406	19.2			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	36,441	5.7									
	Urban	3,397	0.5									
	Total	39,838	6.2			M	L			L		
Total - Category - A		163,244	25.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	286,680	44.6									
	Urban	87,348	13.6									
	Total	374,028	58.2			L	VL			L		
Total - Category - B		374,028	58.2									
C1 - Concrete Wall	Rural	16,291	2.5									
	Urban	6,702	1.0									
	Total	22,993	3.5			VL	VL			VL		
C2 - Wood wall	Rural	4,298	0.7									
	Urban	946	0.1									
	Total	5,244	0.8			VL	VL			M		
Total - Category - C		28,237	4.4									
X - Other Materials	Rural	66,604	10.4									
	Urban	10,499	1.6									
	Total	77,103	12.0			VL	VL			M		
Total - Category - X		77,103	12.0									
TOTAL HOUSES*		642,612										

ROOF												
R1 - Light Weight Sloping Roof	Rural	433,568	67.5									
	Urban	61,545	9.6									
	Total	495,113	77.1			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	23,732	3.7									
	Urban	5,702	0.9									
	Total	29,434	4.6			L	VL			L		
R3 - Flat Roof	Rural	62,148	9.7									
	Urban	55,917	8.7									
	Total	118,065	18.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		642,612										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **410 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