

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

Table No. : MH 23

State : MAHARASHTRA

MUMBAI

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
						100					100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural		-										
	Urban	19,408	2.0										
	Total	19,408	2.0				<i>M</i>				<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural		-										
	Urban	20,379	2.1										
	Total	20,379	2.1				<i>M</i>				<i>L</i>		
Total - Category - A		39,787	4.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural		-										
	Urban	676,598	69.2										
	Total	676,598	69.2				<i>L</i>				<i>L</i>		
Total - Category - B		676,598	69.2										
C1 - Concrete Wall	Rural		-										
	Urban	216,717	22.2										
	Total	216,717	22.2				<i>VL</i>				<i>VL</i>		
C2 - Wood wall	Rural		-										
	Urban	9,695	1.0										
	Total	9,695	1.0				<i>VL</i>				<i>M</i>		
Total - Category - C		226,412	23.2										
X - Other Materials	Rural		-										
	Urban	34,643	3.5										
	Total	34,643	3.5				<i>VL</i>				<i>M</i>		
Total - Category - X		34,643	3.5										
TOTAL HOUSES*		977,440											

ROOF														
R1 - Light Weight Sloping Roof	Rural		-											
	Urban	253,708	26.0											
	Total	253,708	26.0				<i>L</i>				<i>H</i>			
R2 - Heavy Weight Sloping Roof	Rural		-											
	Urban	117,030	12.0											
	Total	117,030	12.0				<i>L</i>				<i>L</i>			
R3 - Flat Roof	Rural		-											
	Urban	606,702	62.1											
	Total	606,702	62.1				<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		977,440												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 1010 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