

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

Table No. : MH 01

State : MAHARASHTRA

NANDURBAR

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
						100					100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	78,229	21.0										
	Urban	10,906	2.9										
	Total	89,135	23.9					<i>M</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	3,888	1.0										
	Urban	1,138	0.3										
	Total	5,026	1.3					<i>M</i>			<i>L</i>		
Total - Category - A		94,161	25.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	73,012	19.6										
	Urban	39,051	10.5										
	Total	112,063	30.1					<i>L</i>			<i>L</i>		
Total - Category - B		112,063	30.1										
C1 - Concrete Wall	Rural	4,764	1.3										
	Urban	3,997	1.1										
	Total	8,761	2.4					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	2,317	0.6										
	Urban	992	0.3										
	Total	3,309	0.9					<i>VL</i>			<i>M</i>		
Total - Category - C		12,070	3.2										
X - Other Materials	Rural	147,721	39.7										
	Urban	6,536	1.8										
	Total	154,257	41.5					<i>VL</i>			<i>M</i>		
Total - Category - X		154,257	41.4										
TOTAL HOUSES*		372,551											

ROOF													
R1 - Light Weight Sloping Roof	Rural	104,027	27.9										
	Urban	26,568	7.1										
	Total	130,595	35.0					<i>L</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	185,869	49.9										
	Urban	9,694	2.6										
	Total	195,563	52.5					<i>L</i>			<i>L</i>		
R3 - Flat Roof	Rural	20,035	5.4										
	Urban	26,358	7.1										
	Total	46,393	12.5					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		372,551											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 528 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