

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

Table No. : MH 11

State : MAHARASHTRA

GONDIYA

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	232,172	64.9										
	Urban	17,795	5.0										
	Total	249,967	69.9					<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	2,834	0.8										
	Urban	2,179	0.6										
	Total	5,013	1.4					<i>L</i>			<i>L</i>		
Total - Category - A		254,980	71.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	56,131	15.7										
	Urban	35,881	10.0										
	Total	92,012	25.7					<i>VL</i>			<i>L</i>		
Total - Category - B		92,012	25.7										
C1 - Concrete Wall	Rural	2,396	0.7										
	Urban	2,191	0.6										
	Total	4,587	1.3					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	649	0.2										
	Urban	133	-										
	Total	782	0.2					<i>VL</i>			<i>M</i>		
Total - Category - C		5,369	1.5										
X - Other Materials	Rural	4,769	1.3										
	Urban	676	0.2										
	Total	5,445	1.5					<i>VL</i>			<i>M</i>		
Total - Category - X		5,445	1.5										
TOTAL HOUSES*		357,806											

ROOF													
R1 - Light Weight Sloping Roof	Rural	10,723	3.0										
	Urban	4,559	1.3										
	Total	15,282	4.3					<i>VL</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	250,530	70.0										
	Urban	21,419	6.0										
	Total	271,949	76.0					<i>VL</i>			<i>L</i>		
R3 - Flat Roof	Rural	37,698	10.5										
	Urban	32,877	9.2										
	Total	70,575	19.7	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		357,806											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 481 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 chocked 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