

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

Table No. : MH 24

State : MAHARASHTRA

RAIGARH

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 %					
				69.8	30.2					100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	93,082	12.1										
	Urban	13,064	1.7										
	Total	106,146	13.8					H	M				<i>M</i>
A2 - Stone Wall not packed with mortar	Rural	11,019	1.4										
	Urban	4,271	0.6										
	Total	15,290	2.0					H	M				<i>L</i>
Total - Category - A		121,436	15.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	284,391	37.1										
	Urban	190,941	24.9										
	Total	475,332	62.0					M	L				<i>L</i>
Total - Category - B		475,332	61.9										
C1 - Concrete Wall	Rural	40,080	5.2										
	Urban	68,555	8.9										
	Total	108,635	14.1					L	VL				<i>VL</i>
C2 - Wood wall	Rural	3,625	0.5										
	Urban	1,008	0.1										
	Total	4,633	0.6					L	VL				<i>M</i>
Total - Category - C		113,268	14.8										
X - Other Materials	Rural	46,132	6.0										
	Urban	11,240	1.5										
	Total	57,372	7.5					VL	VL				<i>M</i>
Total - Category - X		57,372	7.5										
TOTAL HOUSES*		767,408											

ROOF													
R1 - Light Weight Sloping Roof	Rural	113,081	14.7										
	Urban	62,566	8.2										
	Total	175,647	22.9					M	L				<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	327,417	42.7										
	Urban	57,100	7.4										
	Total	384,517	50.1					M	L				<i>L</i>
R3 - Flat Roof	Rural	37,831	4.9										
	Urban	169,413	22.1										
	Total	207,244	27.0					Damage Risk as per that for the Wall supporting it					
TOTAL HOUSES*		767,408											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 838 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