

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

Table No. : MH 07

State : MAHARASHTRA

AMRAVATI

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 %					
						59.3	40.7			100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	250,295	34.3										
	Urban	57,131	7.8										
	Total	307,426	42.1					<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	11,560	1.6										
	Urban	6,010	0.8										
	Total	17,570	2.4					<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		324,996	44.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	136,248	18.7										
	Urban	146,922	20.2										
	Total	283,170	38.9					<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		283,170	38.8										
C1 - Concrete Wall	Rural	12,178	1.7										
	Urban	23,018	3.2										
	Total	35,196	4.9					<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	1,869	0.3										
	Urban	1,708	0.2										
	Total	3,577	0.5					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		38,773	5.3										
X - Other Materials	Rural	68,237	9.4										
	Urban	13,773	1.9										
	Total	82,010	11.3					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		82,010	11.3										
TOTAL HOUSES*		728,949											

ROOF													
R1 - Light Weight Sloping Roof	Rural	170,576	23.4										
	Urban	65,181	8.9										
	Total	235,757	32.3					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	241,707	33.2										
	Urban	54,391	7.5										
	Total	296,098	40.7					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	68,104	9.3										
	Urban	128,990	17.7										
	Total	197,094	27.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		728,949											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 515 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