

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

Table No. : MH 04

State : MAHARASHTRA

BULDANA

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 %					
						8.6	91.4			100			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	180,306	26.9										
	Urban	22,492	3.4										
	Total	202,798	30.3					<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	15,850	2.4										
	Urban	2,246	0.3										
	Total	18,096	2.7					<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		220,894	33.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	222,329	33.2										
	Urban	84,590	12.6										
	Total	306,919	45.8					<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		306,919	45.8										
C1 - Concrete Wall	Rural	18,194	2.7										
	Urban	6,811	1.0										
	Total	25,005	3.7					<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	5,377	0.8										
	Urban	1,764	0.3										
	Total	7,141	1.1					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		32,146	4.8										
X - Other Materials	Rural	93,118	13.9										
	Urban	16,725	2.5										
	Total	109,843	16.4					<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		109,843	16.4										
TOTAL HOUSES*		669,802											

ROOF													
R1 - Light Weight Sloping Roof	Rural	426,120	63.6										
	Urban	68,657	10.3										
	Total	494,777	73.9					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	32,544	4.9										
	Urban	4,784	0.7										
	Total	37,328	5.6					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	76,510	11.4										
	Urban	61,187	9.1										
	Total	137,697	20.5	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		669,802											

Probable Maximum Precipitation at a Station of the district in 24 hrs is 400 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