

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

Table No. : MH 20

State : MAHARASHTRA

NASHIK

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area
				Area in %				Area in %				
						100				100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	279,196	19.3									
	Urban	87,164	6.0									
	Total	366,360	25.3				<i>M</i>				<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	28,158	1.9									
	Urban	11,668	0.8									
	Total	39,826	2.7				<i>M</i>				<i>L</i>	
Total - Category - A		406,186	28.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	339,698	23.4									
	Urban	385,712	26.6									
	Total	725,410	50.0				<i>L</i>				<i>L</i>	
Total - Category - B		725,410	50.0									
C1 - Concrete Wall	Rural	48,304	3.3									
	Urban	86,179	5.9									
	Total	134,483	9.2				<i>VL</i>				<i>VL</i>	
C2 - Wood wall	Rural	7,291	0.5									
	Urban	33,292	2.3									
	Total	40,583	2.8				<i>VL</i>				<i>M</i>	
Total - Category - C		175,066	12.1									
X - Other Materials	Rural	100,583	6.9									
	Urban	43,087	3.0									
	Total	143,670	9.9				<i>VL</i>				<i>M</i>	
Total - Category - X		143,670	9.9									
TOTAL HOUSES*		1,450,332										

ROOF												
R1 - Light Weight Sloping Roof	Rural	448,544	30.9									
	Urban	248,563	17.1									
	Total	697,107	48.0				<i>L</i>				<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	272,380	18.8									
	Urban	65,130	4.5									
	Total	337,510	23.3				<i>L</i>				<i>L</i>	
R3 - Flat Roof	Rural	82,306	5.7									
	Urban	333,409	23.0									
	Total	415,715	28.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,450,332										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 928 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