

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

Table No. : MH 29

State : MAHARASHTRA

OSMANABAD

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
						85.9	14.1					100	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	65,086	16.0										
	Urban	7,986	2.0										
	Total	73,072	18.0			M	L				M		
A2 - Stone Wall not packed with mortar	Rural	21,110	5.2										
	Urban	3,816	0.9										
	Total	24,926	6.1			M	L				L		
Total - Category - A		97,998	24.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	190,420	46.8										
	Urban	43,295	10.6										
	Total	233,715	57.4			L	VL				L		
Total - Category - B		233,715	57.4										
C1 - Concrete Wall	Rural	15,659	3.8										
	Urban	4,299	1.1										
	Total	19,958	4.9			VL	VL				VL		
C2 - Wood wall	Rural	3,298	0.8										
	Urban	914	0.2										
	Total	4,212	1.0			VL	VL				M		
Total - Category - C		24,170	5.9										
X - Other Materials	Rural	42,429	10.4										
	Urban	8,957	2.2										
	Total	51,386	12.6			VL	VL				M		
Total - Category - X		51,386	12.6										
TOTAL HOUSES*		407,269											

ROOF												
R1 - Light Weight Sloping Roof	Rural	266,913	65.5									
	Urban	37,546	9.2									
	Total	304,459	74.7			L	VL				H	
R2 - Heavy Weight Sloping Roof	Rural	22,326	5.5									
	Urban	3,987	1.0									
	Total	26,313	6.5			L	VL				L	
R3 - Flat Roof	Rural	48,763	12.0									
	Urban	27,734	6.8									
	Total	76,497	18.8									
TOTAL HOUSES*		407,269										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **487 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