

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

Table No. : MH 05

State : MAHARASHTRA

AKOLA

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 %						
						18.3	81.7			100				
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	134,193	28.8											
	Urban	44,697	9.6											
	Total	178,890	38.4					<i>M</i>	<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	6,591	1.4											
	Urban	3,462	0.7											
	Total	10,053	2.1					<i>M</i>	<i>L</i>			<i>L</i>		
Total - Category - A		188,943	40.6											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	101,951	21.9											
	Urban	99,353	21.3											
	Total	201,304	43.2					<i>L</i>	<i>VL</i>			<i>L</i>		
Total - Category - B		201,304	43.2											
C1 - Concrete Wall	Rural	9,784	2.1											
	Urban	12,526	2.7											
	Total	22,310	4.8					<i>VL</i>	<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	982	0.2											
	Urban	1,119	0.2											
	Total	2,101	0.4					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - C		24,411	5.2											
X - Other Materials	Rural	37,293	8.0											
	Urban	13,904	3.0											
	Total	51,197	11.0					<i>VL</i>	<i>VL</i>			<i>M</i>		
Total - Category - X		51,197	11.0											
TOTAL HOUSES*		465,855												

ROOF													
R1 - Light Weight Sloping Roof	Rural	136,104	29.2										
	Urban	53,551	11.5										
	Total	189,655	40.7					<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	104,770	22.5										
	Urban	29,716	6.4										
	Total	134,486	28.9					<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	49,920	10.7										
	Urban	91,794	19.7										
	Total	141,714	30.4	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		465,855											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 595 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