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

Table No. : MH 16 State : MAHARASHTRA **HINGOLI**

Wall / Roof		Census Houses No. of Houses	%	Level of Risk under EQ Zone V	IV	III	II	Wind Velocity m/s 55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %				Area in %				
							100			100		
WALL												
A1 - Mud &	Rural	83,449	31.6									
Unburnt Brick Wall	Urban	7,255	2.7									
	Total	**90,704**	**34.3**				L			M		
A2 - Stone Wall	Rural	9,986	3.8									
not packed with mortar	Urban	1,275	0.5									
	Total	**11,261**	**4.3**				L			L		
Total - Category - A		**101,965**	**38.6**									
B - Burnt Bricks Wall	Rural	102,047	38.7									
& Stone wall packed	Urban	23,752	9.0									
with mortar	**Total**	**125,799**	**47.7**				VL			L		
Total - Category - B		**125,799**	**47.7**									
C1 - Concrete Wall	Rural	10,100	3.8									
	Urban	3,820	1.4									
	Total	**13,920**	**5.2**				VL			VL		
C2 - Wood wall	Rural	2,131	0.8									
	Urban	301	0.1									
	Total	**2,432**	**0.9**				VL			M		
Total - Category - C		**16,352**	**6.2**									
X - Other Materials	Rural	18,297	6.9									
	Urban	1,437	0.5									
	Total	**19,734**	**7.4**				VL			M		
Total - Category - X		**19,734**	**7.5**									
TOTAL HOUSES*		**263,850**										
ROOF												
R1 - Light Weight Sloping Roof	Rural	191,859	72.7									
	Urban	21,640	8.2									
	Total	**213,499**	**80.9**				VL			H		
R2 - Heavy Weight Sloping Roof	Rural	9,346	3.5									
	Urban	1,394	0.5									
	Total	**10,740**	**4.0**				VL			L		
R3 - Flat Roof	Rural	24,805	9.4									
	Urban	14,806	5.6									
	Total	**39,611**	**15.0**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**263,850**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 467 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 chocked 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