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

Table No. : MH 34   **State : MAHARASHTRA**   **KOLHAPUR**

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 %	3.3	96.7				Area in % 64.5	35.5	
WALL												
A1 - Mud &	Rural	211,236	20.0									
Unburnt Brick Wall	Urban	43,125	4.1									
	Total	*254,361*	*24.1*		H	M				M	L	
A2 - Stone Wall	Rural	36,492	3.5									
not packed with mortar	Urban	12,912	1.2									
	Total	*49,404*	*4.7*		H	M				L	VL	
Total - Category - A		*303,765*	*28.7*									
B - Burnt Bricks Wall	Rural	397,643	37.6									
& Stone wall packed	Urban	213,845	20.2									
with mortar	*Total*	*611,488*	*57.8*		M	L				L	VL	
Total - Category - B		*611,488*	*57.9*									
C1 - Concrete Wall	Rural	32,988	3.1									
	Urban	54,601	5.2									
	Total	*87,589*	*8.3*		L	VL				VL	VL	
C2 - Wood wall	Rural	5,456	0.5									
	Urban	2,452	0.2									
	Total	*7,908*	*0.7*		L	VL				M	L	
Total - Category - C		*95,497*	*9.0*									
X - Other Materials	Rural	33,620	3.2									
	Urban	12,498	1.2									
	Total	*46,118*	*4.4*		VL	VL				M	L	
Total - Category - X		*46,118*	*4.4*									
TOTAL HOUSES*		**1,056,868**										
ROOF												
R1 - Light Weight	Rural	107,704	10.2									
Sloping Roof	Urban	67,369	6.4									
	Total	*175,073*	*16.6*		M	L				H	M	
R2 - Heavy Weight	Rural	527,623	49.9									
Sloping Roof	Urban	121,734	11.5									
	Total	*649,357*	*61.4*		M	L				L	VL	
R3 - Flat Roof	Rural	82,108	7.8									
	Urban	150,330	14.2									
	Total	*232,438*	*22.0*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**1,056,868**										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 520 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