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

Table No. : MH 31 **State : MAHARASHTRA** **SATARA**

Wall / Roof		Census Houses		Level of Risk under								
				EQ Zone				Wind Velocity m/s				Flood Prone Area in %
		No. of Houses	%	V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
					53.0	47.0				73.1	26.9	
WALL												
A1 - Mud &	Rural	107,762	12.9									
Unburnt Brick Wall	Urban	14,850	1.8									
	Total	***122,612***	***14.7***		*H*	*M*				*M*	*L*	
A2 - Stone Wall	Rural	38,915	4.7									
not packed with mortar	Urban	3,243	0.4									
	Total	***42,158***	***5.1***		*H*	*M*				*L*	*VL*	
Total - Category - A		***164,770***	***19.8***									
B - Burnt Bricks Wall	Rural	390,248	46.9									
& Stone wall packed	Urban	91,534	11.0									
with mortar	***Total***	***481,782***	***57.9***		*M*	*L*				*L*	*VL*	
Total - Category - B		***481,782***	***57.9***									
C1 - Concrete Wall	Rural	60,519	7.3									
	Urban	40,691	4.9									
	Total	***101,210***	***12.2***		*L*	*VL*				*VL*	*VL*	
C2 - Wood wall	Rural	3,497	0.4									
	Urban	677	0.1									
	Total	***4,174***	***0.5***		*L*	*VL*				*M*	*L*	
Total - Category - C		***105,384***	***12.7***									
X - Other Materials	Rural	66,741	8.0									
	Urban	14,007	1.7									
	Total	***80,748***	***9.7***		*VL*	*VL*				*M*	*L*	
Total - Category - X		***80,748***	***9.7***									
TOTAL HOUSES*		**832,684**										
ROOF												
R1 - Light Weight	Rural	420,701	50.5									
Sloping Roof	Urban	76,499	9.2									
	Total	***497,200***	***59.7***		*M*	*L*				*H*	*M*	
R2 - Heavy Weight	Rural	178,805	21.5									
Sloping Roof	Urban	10,794	1.3									
	Total	***189,599***	***22.8***		*M*	*L*				*L*	*VL*	
R3 - Flat Roof	Rural	68,176	8.2									
	Urban	77,709	9.3									
	Total	***145,885***	***17.5***	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**832,684**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 551 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