

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

Table No. : TN 25

State : TAMIL NADU

RAMANATHAPURAM

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
							100		3.5	96.5			
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	68,515	18.0										
	Urban	11,576	3.0										
	Total	80,091	21.0				L		H	M			
A2 - Stone Wall not packed with mortar	Rural	7,402	1.9										
	Urban	2,826	0.7										
	Total	10,228	2.6				L		M	L			
Total - Category - A		90,319	23.7										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	142,145	37.3										
	Urban	81,474	21.4										
	Total	223,619	58.7				VL		M	L			
Total - Category - B		223,619	58.7										
C1 - Concrete Wall	Rural	14,195	3.7										
	Urban	12,642	3.3										
	Total	26,837	7.0				VL		VL	VL			
C2 - Wood wall	Rural	788	0.2										
	Urban	229	0.1										
	Total	1,017	0.3				VL		H	M			
Total - Category - C		27,854	7.3										
X - Other Materials	Rural	30,358	8.0										
	Urban	8,565	2.2										
	Total	38,923	10.2				VL		H	M			
Total - Category - X		38,923	10.2										
TOTAL HOUSES*		380,715											

ROOF													
R1 - Light Weight Sloping Roof	Rural	40,200	10.6										
	Urban	14,439	3.8										
	Total	54,639	14.4				VL		VH	H			
R2 - Heavy Weight Sloping Roof	Rural	137,760	36.2										
	Urban	33,164	8.7										
	Total	170,924	44.9				VL		M	L			
R3 - Flat Roof	Rural	85,443	22.4										
	Urban	69,709	18.3										
	Total	155,152	40.7	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		380,715											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **419 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