

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

Table No. : TN 18

State : TAMIL NADU

THIRUVARUR

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 %				
							100		100			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	105,992	27.5									
	Urban	14,353	3.7									
	Total	120,345	31.2				L		H			
A2 - Stone Wall not packed with mortar	Rural	14,420	3.7									
	Urban	3,059	0.8									
	Total	17,479	4.5				L		M			
Total - Category - A		137,824	35.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	127,309	33.0									
	Urban	49,603	12.9									
	Total	176,912	45.9				VL		M			
Total - Category - B		176,912	45.9									
C1 - Concrete Wall	Rural	17,922	4.6									
	Urban	9,998	2.6									
	Total	27,920	7.2				VL		VL			
C2 - Wood wall	Rural	1,020	0.3									
	Urban	260	0.1									
	Total	1,280	0.4				VL		H			
Total - Category - C		29,200	7.6									
X - Other Materials	Rural	37,358	9.7									
	Urban	4,145	1.1									
	Total	41,503	10.8				VL		H			
Total - Category - X		41,503	10.8									
TOTAL HOUSES*		385,439										

ROOF												
R1 - Light Weight Sloping Roof	Rural	154,177	40.0									
	Urban	24,393	6.3									
	Total	178,570	46.3				VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	68,875	17.9									
	Urban	16,572	4.3									
	Total	85,447	22.2				VL		M			
R3 - Flat Roof	Rural	80,969	21.0									
	Urban	40,453	10.5									
	Total	121,422	31.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		385,439										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **578 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