

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

Table No. : TN 17

State : TAMIL NADU

NAGAPATTINAM

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	102,131	21.1									
	Urban	13,146	2.7									
	Total	115,277	23.8				L		H			
A2 - Stone Wall not packed with mortar	Rural	22,086	4.6									
	Urban	6,007	1.2									
	Total	28,093	5.8				L		M			
Total - Category - A		143,370	29.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	176,692	36.5									
	Urban	70,719	14.6									
	Total	247,411	51.1				VL		M			
Total - Category - B		247,411	51.1									
C1 - Concrete Wall	Rural	18,399	3.8									
	Urban	12,301	2.5									
	Total	30,700	6.3				VL		VL			
C2 - Wood wall	Rural	2,217	0.5									
	Urban	395	0.1									
	Total	2,612	0.6				VL		H			
Total - Category - C		33,312	6.9									
X - Other Materials	Rural	54,105	11.2									
	Urban	6,107	1.3									
	Total	60,212	12.5				VL		H			
Total - Category - X		60,212	12.4									
TOTAL HOUSES*		484,305										

ROOF												
R1 - Light Weight Sloping Roof	Rural	200,781	41.5									
	Urban	32,624	6.7									
	Total	233,405	48.2				VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	65,763	13.6									
	Urban	23,365	4.8									
	Total	89,128	18.4				VL		M			
R3 - Flat Roof	Rural	109,086	22.5									
	Urban	52,686	10.9									
	Total	161,772	33.4	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		484,305										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **616 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