

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

Table No. : TN 07

State : TAMIL NADU

SALEM

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area
				V	IV	III	II	55 & 50	47	44 & 39	33	in %
				Area in %				Area in %				in %
WALL						40.7	59.3		100.0	.0		
A1 - Mud & Unburnt Brick Wall	Rural	134,281	12.5									
	Urban	80,336	7.5									
	Total	214,617	20.0			M	L		H	M		
A2 - Stone Wall not packed with mortar	Rural	28,414	2.6									
	Urban	15,051	1.4									
	Total	43,465	4.0			M	L		M	L		
Total - Category - A		258,082	24.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	303,596	28.2									
	Urban	390,742	36.3									
	Total	694,338	64.5			L	VL		M	L		
Total - Category - B		694,338	64.5									
C1 - Concrete Wall	Rural	26,244	2.4									
	Urban	47,205	4.4									
	Total	73,449	6.8			VL	VL		VL	VL		
C2 - Wood wall	Rural	1,894	0.2									
	Urban	1,265	0.1									
	Total	3,159	0.3			VL	VL		H	M		
Total - Category - C		76,608	7.1									
X - Other Materials	Rural	30,833	2.9									
	Urban	16,634	1.5									
	Total	47,467	4.4			VL	VL		H	M		
Total - Category - X		47,467	4.4									
TOTAL HOUSES*		1,076,495										

ROOF												
R1 - Light Weight Sloping Roof	Rural	190,739	17.7									
	Urban	81,663	7.6									
	Total	272,402	25.3			L	VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	198,116	18.4									
	Urban	214,303	19.9									
	Total	412,419	38.3			L	VL		M	L		
R3 - Flat Roof	Rural	136,407	12.7									
	Urban	255,267	23.7									
	Total	391,674	36.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,076,495										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 471 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