

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

Table No. : TN 03

State : TAMIL NADU

KANCHEEPURAM

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 %				
						61.3	38.7	87.0		13.0		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	93,412	8.2									
	Urban	36,617	3.2									
	Total	130,029	11.4			M	L	VH		M		
A2 - Stone Wall not packed with mortar	Rural	15,500	1.4									
	Urban	19,697	1.7									
	Total	35,197	3.1			M	L	H		L		
Total - Category - A		165,226	14.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	223,011	19.7									
	Urban	504,493	44.5									
	Total	727,504	64.2			L	VL	H		L		
Total - Category - B		727,504	64.1									
C1 - Concrete Wall	Rural	42,187	3.7									
	Urban	145,312	12.8									
	Total	187,499	16.5			VL	VL	L		VL		
C2 - Wood wall	Rural	1,086	0.1									
	Urban	913	0.1									
	Total	1,999	0.2			VL	VL	VH		M		
Total - Category - C		189,498	16.7									
X - Other Materials	Rural	30,065	2.7									
	Urban	21,834	1.9									
	Total	51,899	4.6			VL	VL	VH		M		
Total - Category - X		51,899	4.6									
TOTAL HOUSES*		1,134,127										

ROOF												
R1 - Light Weight Sloping Roof	Rural	167,233	14.7									
	Urban	140,233	12.4									
	Total	307,466	27.1			L	VL	VH		H		
R2 - Heavy Weight Sloping Roof	Rural	63,516	5.6									
	Urban	75,471	6.7									
	Total	138,987	12.3			L	VL	H		L		
R3 - Flat Roof	Rural	174,512	15.4									
	Urban	513,162	45.2									
	Total	687,674	60.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		1,134,127										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **667 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