

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

Table No. : TN 04

State : TAMIL NADU

VELLORE

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		.0		54.8	45.1	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	159,443	14.9									
	Urban	56,770	5.3									
	Total	216,213	20.2			M		VH		M	L	
A2 - Stone Wall not packed with mortar	Rural	18,710	1.7									
	Urban	15,666	1.5									
	Total	34,376	3.2			M		H		L	VL	
Total - Category - A		250,589	23.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	365,737	34.2									
	Urban	325,885	30.4									
	Total	691,622	64.6			L		H		L	VL	
Total - Category - B		691,622	64.6									
C1 - Concrete Wall	Rural	33,424	3.1									
	Urban	48,519	4.5									
	Total	81,943	7.6			VL		L		VL	VL	
C2 - Wood wall	Rural	1,143	0.1									
	Urban	482	-									
	Total	1,625	0.1			VL		VH		M	L	
Total - Category - C		83,568	7.8									
X - Other Materials	Rural	31,086	2.9									
	Urban	13,851	1.3									
	Total	44,937	4.2			VL		VH		M	L	
Total - Category - X		44,937	4.2									
TOTAL HOUSES*		1,070,716										

ROOF												
R1 - Light Weight Sloping Roof	Rural	207,329	19.4									
	Urban	83,374	7.8									
	Total	290,703	27.2			L		VH		H	M	
R2 - Heavy Weight Sloping Roof	Rural	115,422	10.8									
	Urban	78,939	7.4									
	Total	194,361	18.2			L		H		L	VL	
R3 - Flat Roof	Rural	286,792	26.8									
	Urban	298,860	27.9									
	Total	585,652	54.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		1,070,716										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **554 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