

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

**Table No. : TN 20**

**State : TAMIL NADU**

**PUDUKKOTTAI**

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	94,361	20.4									
	Urban	14,599	3.2									
	Total	108,960	23.6				L		H			
A2 - Stone Wall not packed with mortar	Rural	7,559	1.6									
	Urban	1,729	0.4									
	Total	9,288	2.0				L		M			
Total - Category - A		118,248	25.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	203,163	43.9									
	Urban	64,786	14.0									
	Total	267,949	57.9				VL		M			
Total - Category - B		267,949	57.9									
C1 - Concrete Wall	Rural	13,716	3.0									
	Urban	9,134	2.0									
	Total	22,850	5.0				VL		VL			
C2 - Wood wall	Rural	1,045	0.2									
	Urban	298	0.1									
	Total	1,343	0.3				VL		H			
Total - Category - C		24,193	5.2									
X - Other Materials	Rural	47,551	10.3									
	Urban	4,477	1.0									
	Total	52,028	11.3				VL		H			
Total - Category - X		52,028	11.3									
TOTAL HOUSES*		462,418										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	104,015	22.5									
	Urban	13,716	3.0									
	<b>Total</b>	<b>117,731</b>	<b>25.5</b>				VL		VH			
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	160,697	34.8									
	Urban	31,395	6.8									
	<b>Total</b>	<b>192,092</b>	<b>41.6</b>				VL		M			
<b>R3 - Flat Roof</b>	Rural	102,683	22.2									
	Urban	49,912	10.8									
	<b>Total</b>	<b>152,595</b>	<b>33.0</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>462,418</b>										

**Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 591 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