

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

Table No. : TN 11

State : TAMIL NADU

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Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
WALL						4.5	95.5		13.7	86.3		
A1 - Mud & Unburnt Brick Wall	Rural	95,683	14.6									
	Urban	44,284	6.8									
	Total	139,967	21.4			<i>M</i>	<i>L</i>		<i>H</i>	<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	13,473	2.1									
	Urban	5,734	0.9									
	Total	19,207	3.0			<i>M</i>	<i>L</i>		<i>M</i>	<i>L</i>		
Total - Category - A		159,174	24.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	240,636	36.7									
	Urban	163,163	24.9									
	Total	403,799	61.6			<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>		
Total - Category - B		403,799	61.6									
C1 - Concrete Wall	Rural	16,350	2.5									
	Urban	23,916	3.6									
	Total	40,266	6.1			<i>VL</i>	<i>VL</i>		<i>VL</i>	<i>VL</i>		
C2 - Wood wall	Rural	1,709	0.3									
	Urban	824	0.1									
	Total	2,533	0.4			<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>		
Total - Category - C		42,799	6.5									
X - Other Materials	Rural	36,459	5.6									
	Urban	13,256	2.0									
	Total	49,715	7.6			<i>VL</i>	<i>VL</i>		<i>H</i>	<i>M</i>		
Total - Category - X		49,715	7.6									
TOTAL HOUSES*		655,487										

ROOF												
R1 - Light Weight Sloping Roof	Rural	104,478	15.9									
	Urban	46,625	7.1									
	Total	151,103	23.0			<i>L</i>	<i>VL</i>		<i>VH</i>	<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	190,481	29.1									
	Urban	83,121	12.7									
	Total	273,602	41.8			<i>L</i>	<i>VL</i>		<i>M</i>	<i>L</i>		
R3 - Flat Roof	Rural	109,351	16.7									
	Urban	121,431	18.5									
	Total	230,782	35.2			<i>Damage Risk as per that for the Wall supporting it</i>						
TOTAL HOUSES*		655,487										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 475 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