

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

Table No. : TN 16

State : TAMIL NADU

CUDDALORE

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								100	9.4	90.6		
A1 - Mud & Unburnt Brick Wall	Rural	149,539	20.9									
	Urban	33,587	4.7									
	Total	183,126	25.6					<i>L</i>	<i>VH</i>	<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	20,789	2.9									
	Urban	9,278	1.3									
	Total	30,067	4.2					<i>L</i>	<i>H</i>	<i>M</i>		
Total - Category - A		213,193	29.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	214,411	30.0									
	Urban	157,297	22.0									
	Total	371,708	52.0					<i>VL</i>	<i>H</i>	<i>M</i>		
Total - Category - B		371,708	52.0									
C1 - Concrete Wall	Rural	24,718	3.5									
	Urban	30,967	4.3									
	Total	55,685	7.8					<i>VL</i>	<i>L</i>	<i>VL</i>		
C2 - Wood wall	Rural	1,018	0.1									
	Urban	519	0.1									
	Total	1,537	0.2					<i>VL</i>	<i>VH</i>	<i>H</i>		
Total - Category - C		57,222	8.0									
X - Other Materials	Rural	59,364	8.3									
	Urban	12,728	1.8									
	Total	72,092	10.1					<i>VL</i>	<i>VH</i>	<i>H</i>		
Total - Category - X		72,092	10.1									
TOTAL HOUSES*		714,215										

ROOF												
R1 - Light Weight Sloping Roof	Rural	242,559	34.0									
	Urban	66,926	9.4									
	Total	309,485	43.4					<i>VL</i>	<i>VH</i>	<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	96,421	13.5									
	Urban	41,417	5.8									
	Total	137,838	19.3					<i>VL</i>	<i>H</i>	<i>M</i>		
R3 - Flat Roof	Rural	130,859	18.3									
	Urban	136,033	19.0									
	Total	266,892	37.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		714,215										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 642 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