

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								
		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		100		
A1 - Mud & Unburnt Brick Wall	Rural	94,361	20.4									
	Urban	14,599	3.2									
	Total	108,960	23.6					<i>L</i>		<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	7,559	1.6									
	Urban	1,729	0.4									
	Total	9,288	2.0					<i>L</i>		<i>M</i>		
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					<i>VL</i>		<i>M</i>		
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					<i>VL</i>		<i>VL</i>		
C2 - Wood wall	Rural	1,045	0.2									
	Urban	298	0.1									
	Total	1,343	0.3					<i>VL</i>		<i>H</i>		
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					<i>VL</i>		<i>H</i>		
Total - Category - X		52,028	11.3									
TOTAL HOUSES*		462,418										

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

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