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

Table No. : TN 08   **State : TAMIL NADU**   **NAMAKKAL**

Wall / Roof		Census Houses – No. of Houses	%	EQ Zone V	EQ Zone IV	EQ Zone III	EQ Zone II	Wind 55 & 50	Wind 47	Wind 44 & 39	Wind 33	Flood Prone Area in %
				Area in %		21.8	78.2	Area in %	100			in %
WALL												
A1 - Mud &	Rural	79,522	13.9									
Unburnt Brick Wall	Urban	32,144	5.6									
	Total	*111,666*	*19.5*			M	L		H			
A2 - Stone Wall	Rural	10,935	1.9									
not packed with mortar	Urban	4,967	0.9									
	Total	*15,902*	*2.8*			M	L		M			
Total - Category - A		127,568	22.3									
B - Burnt Bricks Wall	Rural	209,333	36.5									
& Stone wall packed	Urban	176,385	30.8									
with mortar	*Total*	*385,718*	*67.3*			L	VL		M			
Total - Category - B		385,718	67.3									
C1 - Concrete Wall	Rural	12,207	2.1									
	Urban	14,588	2.5									
	Total	*26,795*	*4.6*			VL	VL		VL			
C2 - Wood wall	Rural	935	0.2									
	Urban	448	0.1									
	Total	*1,383*	*0.3*			VL	VL		H			
Total - Category - C		28,178	4.9									
X - Other Materials	Rural	22,674	4.0									
	Urban	8,781	1.5									
	Total	*31,455*	*5.5*			VL	VL		H			
Total - Category - X		31,455	5.5									
TOTAL HOUSES*		572,919										
ROOF												
R1 - Light Weight	Rural	107,419	18.7									
Sloping Roof	Urban	39,456	6.9									
	Total	*146,875*	*25.6*			L	VL		VH			
R2 - Heavy Weight	Rural	133,390	23.3									
Sloping Roof	Urban	96,715	16.9									
	Total	*230,105*	*40.2*			L	VL		M			
R3 - Flat Roof	Rural	94,797	16.5									
	Urban	101,142	17.7									
	Total	*195,939*	*34.2*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		572,919										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.   481 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 chocked 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