

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

Table No. : TN 21

State : TAMIL NADU

SIVAGANGA

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area
				V	IV	III	II	55 & 50	47	44 & 39	33	in %
				Area in %				Area in %				in %
WALL								100		36.0	64.0	
A1 - Mud & Unburnt Brick Wall	Rural	76,915	19.0									
	Urban	15,363	3.8									
	Total	92,278	22.8					<i>L</i>		<i>H</i>	<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	6,445	1.6									
	Urban	2,491	0.6									
	Total	8,936	2.2					<i>L</i>		<i>M</i>	<i>L</i>	
Total - Category - A		101,214	25.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	159,440	39.3									
	Urban	93,645	23.1									
	Total	253,085	62.4					<i>VL</i>		<i>M</i>	<i>L</i>	
Total - Category - B		253,085	62.5									
C1 - Concrete Wall	Rural	15,633	3.9									
	Urban	15,360	3.8									
	Total	30,993	7.7					<i>VL</i>		<i>VL</i>	<i>VL</i>	
C2 - Wood wall	Rural	1,028	0.3									
	Urban	386	0.1									
	Total	1,414	0.4					<i>VL</i>		<i>H</i>	<i>M</i>	
Total - Category - C		32,407	8.0									
X - Other Materials	Rural	16,273	4.0									
	Urban	2,279	0.6									
	Total	18,552	4.6					<i>VL</i>		<i>H</i>	<i>M</i>	
Total - Category - X		18,552	4.6									
TOTAL HOUSES*		405,258										

ROOF												
R1 - Light Weight Sloping Roof	Rural	34,211	8.4									
	Urban	8,684	2.1									
	Total	42,895	10.5					<i>VL</i>		<i>VH</i>	<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	157,072	38.8									
	Urban	44,440	11.0									
	Total	201,512	49.8					<i>VL</i>		<i>M</i>	<i>L</i>	
R3 - Flat Roof	Rural	84,451	20.8									
	Urban	76,400	18.9									
	Total	160,851	39.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		405,258										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 530 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