

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

**Table No. : TR 01**

**State : TRIPURA**

**WEST TRIPURA**

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
				100					100				
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	170,863	35.2										
	Urban	53,820	11.1										
	Total	224,683	46.3	VH					VH				
A2 - Stone Wall not packed with mortar	Rural	896	0.2										
	Urban	1,624	0.3										
	Total	2,520	0.5	VH					H				
Total - Category - A		227,203	46.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	23,907	4.9										
	Urban	71,273	14.7										
	Total	95,180	19.6	H					H				
Total - Category - B		95,180	19.6										
C1 - Concrete Wall	Rural	662	0.1										
	Urban	3,076	0.6										
	Total	3,738	0.7	M					L				
C2 - Wood wall	Rural	912	0.2										
	Urban	628	0.1										
	Total	1,540	0.3	M					VH				
Total - Category - C		5,278	1.1										
X - Other Materials	Rural	83,467	17.2										
	Urban	73,746	15.2										
	Total	157,213	32.4	M					VH				
Total - Category - X		157,213	32.4										
TOTAL HOUSES*		484,874											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	273,501	56.4									
	Urban	159,482	32.9									
	<b>Total</b>	<b>432,983</b>	<b>89.3</b>	M				VH				
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	3,454	0.7									
	Urban	4,202	0.9									
	<b>Total</b>	<b>7,656</b>	<b>1.6</b>	H				H				
<b>R3 - Flat Roof</b>	Rural	3,752	0.8									
	Urban	40,483	8.3									
	<b>Total</b>	<b>44,235</b>	<b>9.1</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>484,874</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 520 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



**Building Materials & Technology Promotion Council**

**Peer Group, MoHUA, GOI**