

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											

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

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