

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

**Table No. : MN 03**

**State : MANIPUR**

**CHURACHANDPUR**

Wall / Roof		Census Houses		Level of Risk under								Flood Pron e Area
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
				100				84.2		15.8		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	21,579	37.9									
	Urban	1,654	2.9									
	Total	23,233	40.8	VH				VH		M		
A2 - Stone Wall not packed with mortar	Rural	150	0.3									
	Urban	40	0.1									
	Total	190	0.4	VH				H		L		
Total - Category - A		23,423	41.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	4,219	7.4									
	Urban	1,431	2.5									
	Total	5,650	9.9	H				H		L		
Total - Category - B		5,650	9.9									
C1 - Concrete Wall	Rural	737	1.3									
	Urban	393	0.7									
	Total	1,130	2.0	M				L		VL		
C2 - Wood wall	Rural	7,593	13.3									
	Urban	736	1.3									
	Total	8,329	14.6	M				VH		M		
Total - Category - C		9,459	16.6									
X - Other Materials	Rural	17,995	31.6									
	Urban	428	0.8									
	Total	18,423	32.4	M				VH		M		
Total - Category - X		18,423	32.3									
TOTAL HOUSES*		56,955										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	49,227	86.4									
	Urban	3,532	6.2									
	<b>Total</b>	<b>52,759</b>	<b>92.6</b>	M				VH		H		
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	1,560	2.7									
	Urban	305	0.5									
	<b>Total</b>	<b>1,865</b>	<b>3.2</b>	H				H		L		
<b>R3 - Flat Roof</b>	Rural	1,486	2.6									
	Urban	845	1.5									
	<b>Total</b>	<b>2,331</b>	<b>4.1</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>56,955</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 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