

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

**Table No. : AR 13**

**State : ARUNACHAL PRADESH**

**DIBANG VALLEY**

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	6	0.2									
	Urban	29	1.1									
	Total	35	1.3	VH						M		
A2 - Stone Wall not packed with mortar	Rural	75	2.8									
	Urban	130	4.9									
	Total	205	7.7	VH						L		
Total - Category - A		240	9.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	80	3.0									
	Urban	6	0.2									
	Total	86	3.2	H						L		
Total - Category - B		86	3.2									
C1 - Concrete Wall	Rural	84	3.2									
	Urban	81	3.0									
	Total	165	6.2	M						VL		
C2 - Wood wall	Rural	256	9.6									
	Urban	17	0.6									
	Total	273	10.2	M						M		
Total - Category - C		438	16.4									
X - Other Materials	Rural	1,386	52.0									
	Urban	515	19.3									
	Total	1,901	71.3	M						M		
Total - Category - X		1,901	71.3									
TOTAL HOUSES*		2,665										

ROOF												
R1 - Light Weight Sloping Roof	Rural	1,808	67.8									
	Urban	774	29.0									
	Total	2,582	96.8	M						M		
R2 - Heavy Weight Sloping Roof	Rural	72	2.7									
	Urban	-	-									
	Total	72	2.7	M						H		
R3 - Flat Roof	Rural	7	0.3									
	Urban	4	0.2									
	Total	11	0.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		2,665										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **473 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