

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

**Table No. : AR 14**

**State : ARUNACHAL PRADESH**

**LOWER 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					26.4		73.6		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	461	3.2										
	Urban	36	0.2										
	Total	497	3.4	VH				VH		M			
A2 - Stone Wall not packed with mortar	Rural	83	0.6										
	Urban	10	0.1										
	Total	93	0.7	VH				H		L			
Total - Category - A		590	4.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	462	3.2										
	Urban	221	1.5										
	Total	683	4.7	H				H		L			
Total - Category - B		683	4.7										
C1 - Concrete Wall	Rural	917	6.3										
	Urban	384	2.6										
	Total	1,301	8.9	M				L		VL			
C2 - Wood wall	Rural	2,025	13.9										
	Urban	159	1.1										
	Total	2,184	15.0	M				VH		M			
Total - Category - C		3,485	23.9										
X - Other Materials	Rural	6,988	48.0										
	Urban	2,811	19.3										
	Total	9,799	67.3	M				VH		M			
Total - Category - X		9,799	67.3										
TOTAL HOUSES*		14,557											

ROOF													
R1 - Light Weight Sloping Roof	Rural	10,661	73.2										
	Urban	3,293	22.6										
	Total	13,954	95.8	M				VH		M			
R2 - Heavy Weight Sloping Roof	Rural	156	1.1										
	Urban	17	0.1										
	Total	173	1.2	M				VH		H			
R3 - Flat Roof	Rural	119	0.8										
	Urban	311	2.1										
	Total	430	2.9	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		14,557											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **587 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