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

Table No. : AR 15 **State : ARUNACHAL PRADESH** **LOHIT**

Wall / Roof		No. of Houses	%	V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
		Census Houses		**EQ Zone**				**Wind Velocity m/s**				
				Area in %				Area in %				
				100				35.6		64.4		
WALL												
A1 - Mud &	Rural	613	1.5									
Unburnt Brick Wall	Urban	269	0.6									
	Total	882	2.1	VH				VH		M		
A2 - Stone Wall	Rural	126	0.3									
not packed with mortar	Urban	222	0.5									
	Total	348	0.8	VH				H		L		
Total - Category - A		1,230	2.9									
B - Burnt Bricks Wall	Rural	1,412	3.4									
& Stone wall packed	Urban	994	2.4									
with mortar	Total	2,406	5.8	H				H		L		
Total - Category - B		2,406	5.7									
C1 - Concrete Wall	Rural	1,324	3.2									
	Urban	2,045	4.9									
	Total	3,369	8.1	M				L		VL		
C2 - Wood wall	Rural	3,083	7.4									
	Urban	1,227	2.9									
	Total	4,310	10.3	M				VH		M		
Total - Category - C		7,679	18.3									
X - Other Materials	Rural	25,210	60.1									
	Urban	5,413	12.9									
	Total	30,623	73.0	M				VH		M		
Total - Category - X		30,623	73.0									
TOTAL HOUSES*		**41,938**										
ROOF												
R1 - Light Weight	Rural	31,477	75.1									
Sloping Roof	Urban	9,718	23.2									
	Total	41,195	98.3	M				VH		M		
R2 - Heavy Weight	Rural	137	0.3									
Sloping Roof	Urban	73	0.2									
	Total	210	0.5	M				VH		H		
R3 - Flat Roof	Rural	154	0.4									
	Urban	379	0.9									
	Total	533	1.3	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**41,938**										

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 chocked 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