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

Table No. : AR 05   **State : ARUNACHAL PRADESH**   **UPPER SUBANSIRI**

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 &	Rural	86	0.5										
Unburnt Brick Wall	Urban	106	0.6										
	Total	**192**	**1.1**	VH						M			
A2 - Stone Wall	Rural	23	0.1										
not packed with mortar	Urban	10	0.1										
	Total	**33**	**0.2**	VH						L			
Total - Category - A		**225**	**1.3**										
B - Burnt Bricks Wall	Rural	295	1.7										
& Stone wall packed	Urban	193	1.1										
with mortar	*Total*	**488**	**2.8**	H						L			
Total - Category - B		**488**	**2.8**										
C1 - Concrete Wall	Rural	267	1.5										
	Urban	627	3.5										
	Total	**894**	**5.0**	M						VL			
C2 - Wood wall	Rural	700	4.0										
	Urban	589	3.3										
	Total	**1,289**	**7.3**	M						M			
Total - Category - C		**2,183**	**12.4**										
X - Other Materials	Rural	12,699	71.8										
	Urban	2,080	11.8										
	Total	**14,779**	**83.6**	M						M			
Total - Category - X		**14,779**	**83.6**										
TOTAL HOUSES*		**17,675**											
ROOF													
R1 - Light Weight	Rural	13,709	77.6										
Sloping Roof	Urban	3,132	17.7										
	Total	**16,841**	**95.3**	M						M			
R2 - Heavy Weight	Rural	223	1.3										
Sloping Roof	Urban	39	0.2										
	Total	**262**	**1.5**	M						H			
R3 - Flat Roof	Rural	138	0.8										
	Urban	434	2.5										
	Total	**572**	**3.3**	*Damage Risk as per that for the Wall supporting it*									
TOTAL HOUSES*		**17,675**											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.   490 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