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

Table No. : AP 01 **ANDHRA PRADESH** **SRIKAKULAM**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
							100	99.1	.9			4.8
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	136,736	17.4									
	Urban	10,281	1.3									
	Total	***147,017***	***18.7***				*L*	*VH*	*H*			*VH*
A2 - Stone Wall not packed with mortar	Rural	3,796	0.5									
	Urban	983	0.1									
	Total	***4,779***	***0.6***				*L*	*H*	*M*			*VH*
Total - Category - A		***151,796***	***19.3***									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	450,447	57.4									
	Urban	112,749	14.4									
	Total	***563,196***	***71.8***				*VL*	*H*	*M*			*H/M*
Total - Category - B		***563,196***	***71.7***									
C1 - Concrete Wall	Rural	6,796	0.9									
	Urban	1,310	0.2									
	Total	***8,106***	***1.1***				*VL*	*L*	*VL*			*L/VL*
C2 - Wood wall	Rural	10,759	1.4									
	Urban	1,383	0.2									
	Total	***12,142***	***1.6***				*VL*	*VH*	*H*			*H*
Total - Category - C		***20,248***	***2.6***									
X - Other Materials	Rural	46,721	5.9									
	Urban	3,455	0.4									
	Total	***50,176***	***6.3***				*VL*	*VH*	*H*			*VH*
Total - Category - X		***50,176***	***6.4***									
TOTAL HOUSES*		**785,416**										

ROOF												
R1 - Light Weight Sloping Roof	Rural	237,376	30.2									
	Urban	27,602	3.5									
	Total	***264,978***	***33.7***				*VL*	*VH*	*VH*			*VH*
R2 - Heavy Weight Sloping Roof	Rural	64,483	8.2									
	Urban	9,964	1.3									
	Total	***74,447***	***9.5***				*VL*	*H*	*M*			*H*
R3 - Flat Roof	Rural	353,396	45.0									
	Urban	92,595	11.8									
	Total	***445,991***	***56.8***	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**785,416**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 817 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