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

Table No. : AS 01 **State : ASSAM** **KOKRAJHAR**

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				13.8
WALL													
A1 - Mud &	Rural	14,576	6.7										
Unburnt Brick Wall	Urban	352	0.2										
	Total	**14,928**	**6.9**	VH					H				VH
A2 - Stone Wall	Rural	1,512	0.7										
not packed with mortar	Urban	792	0.4										
	Total	**2,304**	**1.1**	VH					M				VH
Total - Category - A		**17,232**	**7.9**										
B - Burnt Bricks Wall	Rural	25,919	11.9										
& Stone wall packed	Urban	6,959	3.2										
with mortar	*Total*	**32,878**	**15.1**	H					M				H/M
Total - Category - B		**32,878**	**15.1**										
C1 - Concrete Wall	Rural	5,779	2.7										
	Urban	2,592	1.2										
	Total	**8,371**	**3.9**	M					VL				L/VL
C2 - Wood wall	Rural	8,774	4.0										
	Urban	1,007	0.5										
	Total	**9,781**	**4.5**	M					H				H
Total - Category - C		**18,152**	**8.4**										
X - Other Materials	Rural	144,862	66.7										
	Urban	4,144	1.9										
	Total	**149,006**	**68.6**	M					H				VH
Total - Category - X		**149,006**	**68.6**										
TOTAL HOUSES*		**217,268**											
ROOF													
R1 - Light Weight	Rural	187,887	86.5										
Sloping Roof	Urban	13,635	6.3										
	Total	**201,522**	**92.8**	M					VH				VH
R2 - Heavy Weight	Rural	11,521	5.3										
Sloping Roof	Urban	828	0.4										
	Total	**12,349**	**5.7**	H					M				H
R3 - Flat Roof	Rural	2,014	0.9										
	Urban	1,383	0.6										
	Total	**3,397**	**1.5**	*Damage Risk as per that for the Wall supporting it*									
TOTAL HOUSES*		**217,268**											

Probable Maximum Precipitation at a Station of the district in one day for areal extent of 1000 sq.km. is 674 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