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

Table No. : AS 03　　　　**State : ASSAM**　　　　**GOALPARA**

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				73.1	26.9			.8
WALL												
A1 - Mud &	Rural	5,354	2.0									
Unburnt Brick Wall	Urban	615	0.2									
	Total	**5,969**	**2.2**	VH				VH	H			VH
A2 - Stone Wall	Rural	933	0.4									
not packed with mortar	Urban	441	0.2									
	Total	**1,374**	**0.6**	VH				H	M			VH
Total - Category - A		**7,343**	**2.8**									
B - Burnt Bricks Wall	Rural	34,964	13.4									
& Stone wall packed	Urban	14,075	5.4									
with mortar	*Total*	**49,039**	**18.8**	H				H	M			H/M
Total - Category - B		**49,039**	**18.7**									
C1 - Concrete Wall	Rural	6,405	2.4									
	Urban	2,469	0.9									
	Total	**8,874**	**3.3**	M				L	VL			L/VL
C2 - Wood wall	Rural	4,365	1.7									
	Urban	758	0.3									
	Total	**5,123**	**2.0**	M				VH	H			H
Total - Category - C		**13,997**	**5.4**									
X - Other Materials	Rural	172,310	65.9									
	Urban	18,907	7.2									
	Total	**191,217**	**73.1**	M				VH	H			VH
Total - Category - X		**191,217**	**73.1**									
TOTAL HOUSES*		**261,596**										
ROOF												
R1 - Light Weight	Rural	221,012	84.5									
** Sloping Roof**	Urban	35,782	13.7									
	Total	**256,794**	**98.2**	M				VH	VH			VH
R2 - Heavy Weight	Rural	2,547	1.0									
** Sloping Roof**	Urban	452	0.2									
	Total	**2,999**	**1.2**	H				H	M			H
R3 - Flat Roof	Rural	772	0.3									
	Urban	1,031	0.4									
	Total	**1,803**	**0.7**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**261,596**										

Probable Maximum Precipitation at a Station of the district in one day for areal extent of 1000 sq.km. is   732 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