

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

Table No. : AS 18

State : ASSAM

KARIMGANJ

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				5.7
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	24,134	8.4									
	Urban	751	0.3									
	Total	24,885	8.7	VH				VH				VH
A2 - Stone Wall not packed with mortar	Rural	2,514	0.9									
	Urban	729	0.3									
	Total	3,243	1.2	VH				H				VH
Total - Category - A		28,128	9.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	79,984	27.7									
	Urban	19,733	6.8									
	Total	99,717	34.5	H				H				H/M
Total - Category - B		99,717	34.6									
C1 - Concrete Wall	Rural	1,204	0.4									
	Urban	840	0.3									
	Total	2,044	0.7	M				L				L/VL
C2 - Wood wall	Rural	5,079	1.8									
	Urban	500	0.2									
	Total	5,579	2.0	M				VH				H
Total - Category - C		7,623	2.6									
X - Other Materials	Rural	144,700	50.2									
	Urban	8,287	2.9									
	Total	152,987	53.1	M				VH				VH
Total - Category - X		152,987	53.0									
TOTAL HOUSES*		288,455										
ROOF												
R1 - Light Weight Sloping Roof	Rural	247,417	85.8									
	Urban	22,588	7.8									
	Total	270,005	93.6	M				VH				VH
R2 - Heavy Weight Sloping Roof	Rural	4,902	1.7									
	Urban	1,663	0.6									
	Total	6,565	2.3	H				H				H
R3 - Flat Roof	Rural	5,296	1.8									
	Urban	6,589	2.3									
	Total	11,885	4.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		288,455										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **545 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 choked 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