

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

Table No. : AS 19

State : ASSAM

HAILAKANDI

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				5.6	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	10,735	6.2										
	Urban	282	0.2										
	Total	11,017	6.4	VH				VH				VH	
A2 - Stone Wall not packed with mortar	Rural	959	0.6										
	Urban	294	0.2										
	Total	1,253	0.8	VH				H				VH	
Total - Category - A		12,270	7.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	36,670	21.3										
	Urban	9,656	5.6										
	Total	46,326	26.9	H				H				H/M	
Total - Category - B		46,326	26.9										
C1 - Concrete Wall	Rural	380	0.2										
	Urban	124	0.1										
	Total	504	0.3	M				L				L/VL	
C2 - Wood wall	Rural	7,447	4.3										
	Urban	458	0.3										
	Total	7,905	4.6	M				VH				H	
Total - Category - C		8,409	4.9										
X - Other Materials	Rural	101,006	58.6										
	Urban	4,473	2.6										
	Total	105,479	61.2	M				VH				VH	
Total - Category - X		105,479	61.2										
TOTAL HOUSES*		172,484											

ROOF												
R1 - Light Weight Sloping Roof	Rural	151,903	88.1									
	Urban	12,573	7.3									
	Total	164,476	95.4	M				VH				VH
R2 - Heavy Weight Sloping Roof	Rural	3,220	1.9									
	Urban	641	0.4									
	Total	3,861	2.3	H				H				H
R3 - Flat Roof	Rural	2,074	1.2									
	Urban	2,073	1.2									
	Total	4,147	2.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		172,484										

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