

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

Table No. : AS 20

State : ASSAM

BONGAIGAON

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				20.1	79.9			9.2	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	3,590	1.7										
	Urban	612	0.3										
	Total	4,202	2.0	VH				VH	H			VH	
A2 - Stone Wall not packed with mortar	Rural	889	0.4										
	Urban	671	0.3										
	Total	1,560	0.7	VH				H	M			VH	
Total - Category - A		5,762	2.7										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	23,532	11.1										
	Urban	17,750	8.4										
	Total	41,282	19.5	H				H	M			H/M	
Total - Category - B		41,282	19.5										
C1 - Concrete Wall	Rural	4,535	2.1										
	Urban	5,128	2.4										
	Total	9,663	4.5	M				L	VL			L/ VL	
C2 - Wood wall	Rural	2,601	1.2										
	Urban	647	0.3										
	Total	3,248	1.5	M				VH	H			H	
Total - Category - C		12,911	6.1										
X - Other Materials	Rural	141,730	67.0										
	Urban	9,974	4.7										
	Total	151,704	71.7	M				VH	H			VH	
Total - Category - X		151,704	71.7										
TOTAL HOUSES*		211,659											

ROOF												
R1 - Light Weight Sloping Roof	Rural	172,483	81.5									
	Urban	27,129	12.8									
	Total	199,612	94.3	M				VH	VH			VH
R2 - Heavy Weight Sloping Roof	Rural	3,511	1.7									
	Urban	1,023	0.5									
	Total	4,534	2.2	H				H	M			H
R3 - Flat Roof	Rural	883	0.4									
	Urban	6,630	3.1									
	Total	7,513	3.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		211,659										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 560 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