

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

Table No. : GJ 02

State : GUJARAT

BANAS KANTHA

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 %							
					54.6	45.4				100				31.1	
WALL															
A1 - Mud & Unburnt Brick Wall	Rural	161,907	23.8												
	Urban	9,695	1.4												
	Total	171,602	25.2		H	M				H					VH
A2 - Stone Wall not packed with mortar	Rural	7,142	1.1												
	Urban	457	0.1												
	Total	7,599	1.2		H	M				M					VH
Total - Category - A		179,201	26.4												
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	364,599	53.6												
	Urban	98,676	14.5												
	Total	463,275	68.1		M	L				M					H/M
Total - Category - B		463,275	68.1												
C1 - Concrete Wall	Rural	7,199	1.1												
	Urban	2,898	0.4												
	Total	10,097	1.5		L	VL				VL					L/VL
C2 - Wood wall	Rural	2,195	0.3												
	Urban	190	-												
	Total	2,385	0.3		L	VL				H					H
Total - Category - C		12,482	1.8												
X - Other Materials	Rural	23,418	3.4												
	Urban	1,466	0.2												
	Total	24,884	3.6		VL	VL				H					VH
Total - Category - X		24,884	3.7												
TOTAL HOUSES*		679,842													
ROOF															
R1 - Light Weight Sloping Roof	Rural	163,198	24.0												
	Urban	30,735	4.5												
	Total	193,933	28.5		M	L				VH					VH
R2 - Heavy Weight Sloping Roof	Rural	295,685	43.5												
	Urban	12,247	1.8												
	Total	307,932	45.3		M	L				M					H
R3 - Flat Roof	Rural	107,577	15.8												
	Urban	70,400	10.4												
	Total	177,977	26.2	Damage Risk as per that for the Wall supporting it											
TOTAL HOUSES*		679,842													

Probable Maximum Precipitation at a Station of the district in 24 hrs is **720 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