

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

Table No. : GJ 05

State : GUJARAT

SABAR 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 %				
						100			17.7	82.3		10.5
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	203,359	35.4									
	Urban	11,569	2.0									
	Total	214,928	37.4			M			H	M		VH
A2 - Stone Wall not packed with mortar	Rural	9,422	1.6									
	Urban	858	0.1									
	Total	10,280	1.7			M			M	L		VH
Total - Category - A		225,208	39.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	237,476	41.3									
	Urban	84,301	14.7									
	Total	321,777	56.0			L			M	L		H/M
Total - Category - B		321,777	56.0									
C1 - Concrete Wall	Rural	10,853	1.9									
	Urban	2,453	0.4									
	Total	13,306	2.3			VL			VL	VL		L/VL
C2 - Wood wall	Rural	1,223	0.2									
	Urban	389	0.1									
	Total	1,612	0.3			VL			H	M		H
Total - Category - C		14,918	2.6									
X - Other Materials	Rural	10,620	1.8									
	Urban	1,846	0.3									
	Total	12,466	2.1			VL			H	M		VH
Total - Category - X		12,466	2.2									
TOTAL HOUSES*		574,369										
ROOF												
R1 - Light Weight Sloping Roof	Rural	81,822	14.2									
	Urban	20,500	3.6									
	Total	102,322	17.8			L			VH	H		VH
R2 - Heavy Weight Sloping Roof	Rural	221,613	38.6									
	Urban	9,696	1.7									
	Total	231,309	40.3			L			M	L		H
R3 - Flat Roof	Rural	169,518	29.5									
	Urban	71,220	12.4									
	Total	240,738	41.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		574,369										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 640 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

