

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

Table No. : GO 02

State : GOA

SOUTH GOA

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		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	9,625	4.9										
	Urban	7,083	3.6										
	Total	16,708	8.5					<i>M</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	9,550	4.9										
	Urban	10,748	5.5										
	Total	20,298	10.4					<i>M</i>			<i>L</i>		
Total - Category - A		37,006	19.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	44,853	23.0										
	Urban	83,009	42.6										
	Total	127,862	65.6					<i>L</i>			<i>L</i>		
Total - Category - B		127,862	65.6										
C1 - Concrete Wall	Rural	2,909	1.5										
	Urban	16,424	8.4										
	Total	19,333	9.9					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	1,087	0.6										
	Urban	1,519	0.8										
	Total	2,606	1.4					<i>VL</i>			<i>M</i>		
Total - Category - C		21,939	11.3										
X - Other Materials	Rural	4,486	2.3										
	Urban	3,566	1.8										
	Total	8,052	4.1					<i>VL</i>			<i>M</i>		
Total - Category - X		8,052	4.1										
TOTAL HOUSES*		194,859											

ROOF													
R1 - Light Weight Sloping Roof	Rural	9,716	5.0										
	Urban	14,233	7.3										
	Total	23,949	12.3					<i>L</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	45,918	23.6										
	Urban	49,998	25.7										
	Total	95,916	49.3					<i>L</i>			<i>L</i>		
R3 - Flat Roof	Rural	16,876	8.7										
	Urban	58,118	29.8										
	Total	74,994	38.5					<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		194,859											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **574 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