

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

Table No. : DD 02

State : DAMAN & DIU

DAMAN

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	275	0.5									
	Urban	453	0.8									
	Total	728	1.3			M				M		
A2 - Stone Wall not packed with mortar	Rural	20	-									
	Urban	104	0.2									
	Total	124	0.2			M				L		
Total - Category - A		852	1.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	7,864	13.1									
	Urban	47,134	78.6									
	Total	54,998	91.7			L				L		
Total - Category - B		54,998	91.8									
C1 - Concrete Wall	Rural	136	0.2									
	Urban	2,319	3.9									
	Total	2,455	4.1			VL				VL		
C2 - Wood wall	Rural	39	0.1									
	Urban	221	0.4									
	Total	260	0.5			VL				M		
Total - Category - C		2,715	4.5									
X - Other Materials	Rural	484	0.8									
	Urban	883	1.5									
	Total	1,367	2.3			VL				M		
Total - Category - X		1,367	2.3									
TOTAL HOUSES*		59,932										

ROOF												
R1 - Light Weight Sloping Roof	Rural	5,024	8.4									
	Urban	28,549	47.6									
	Total	33,573	56.0			L				H		
R2 - Heavy Weight Sloping Roof	Rural	1,619	2.7									
	Urban	3,898	6.5									
	Total	5,517	9.2			L				L		
R3 - Flat Roof	Rural	2,175	3.6									
	Urban	18,667	31.1									
	Total	20,842	34.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		59,932										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **1082 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