

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

Table No. : DD 01

State : DAMAN & DIU

DIU

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	104	0.7									
	Urban	9	0.1									
	Total	113	0.8			M		VH				
A2 - Stone Wall not packed with mortar	Rural	641	4.2									
	Urban	201	1.3									
	Total	842	5.5			M		H				
Total - Category - A		955	6.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	7,590	50.0									
	Urban	6,368	42.0									
	Total	13,958	92.0			L		H				
Total - Category - B		13,958	92.0									
C1 - Concrete Wall	Rural	7	-									
	Urban	150	1.0									
	Total	157	1.0			VL		L				
C2 - Wood wall	Rural	7	-									
	Urban	17	0.1									
	Total	24	0.1			VL		VH				
Total - Category - C		181	1.2									
X - Other Materials	Rural	41	0.3									
	Urban	41	0.3									
	Total	82	0.6			VL		VH				
Total - Category - X		82	0.5									
TOTAL HOUSES*		15,176										

ROOF												
R1 - Light Weight Sloping Roof	Rural	568	3.7									
	Urban	292	1.9									
	Total	860	5.6			L		VH				
R2 - Heavy Weight Sloping Roof	Rural	2,555	16.8									
	Urban	1,264	8.3									
	Total	3,819	25.1			L		H				
R3 - Flat Roof	Rural	5,267	34.7									
	Urban	5,230	34.5									
	Total	10,497	69.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		15,176										

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