

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

Table No. : RJ 32

State : RAJASTHAN

UDAIPUR

Wall / Roof		Census Houses		Level of Risk under								Flood Pron e Area
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						13.8	86.2		89.2	10.8		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	260,318	34.0									
	Urban	7,653	1.0									
	Total	267,971	35.0			M	L		H	M		
A2 - Stone Wall not packed with mortar	Rural	47,444	6.2									
	Urban	11,901	1.6									
	Total	59,345	7.8			M	L		M	L		
Total - Category - A		327,316	42.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	284,003	37.1									
	Urban	136,318	17.8									
	Total	420,321	54.9			L	VL		M	L		
Total - Category - B		420,321	54.9									
C1 - Concrete Wall	Rural	1,644	0.2									
	Urban	2,036	0.3									
	Total	3,680	0.5			VL	VL		VL	VL		
C2 - Wood wall	Rural	1,821	0.2									
	Urban	295	-									
	Total	2,116	0.2			VL	VL		H	M		
Total - Category - C		5,796	0.8									
X - Other Materials	Rural	11,184	1.5									
	Urban	1,570	0.2									
	Total	12,754	1.7			VL	VL		H	M		
Total - Category - X		12,754	1.7									
TOTAL HOUSES*		766,187										

ROOF												
R1 - Light Weight Sloping Roof	Rural	99,352	13.0									
	Urban	9,841	1.3									
	Total	109,193	14.3			L	VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	458,127	59.8									
	Urban	57,749	7.5									
	Total	515,876	67.3			L	VL		M	L		
R3 - Flat Roof	Rural	48,935	6.4									
	Urban	92,183	12.0									
	Total	141,118	18.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		766,187										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **462 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