

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

Table No. : RJ 25

State : RAJASTHAN

RAJSAMAND

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 %					
WALL								100		100			
A1 - Mud & Unburnt Brick Wall	Rural	22,058	6.9										
	Urban	917	0.3										
	Total	22,975	7.2					<i>L</i>		<i>H</i>			
A2 - Stone Wall not packed with mortar	Rural	35,658	11.1										
	Urban	4,523	1.4										
	Total	40,181	12.5					<i>L</i>		<i>M</i>			
Total - Category - A		63,156	19.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	206,980	64.4										
	Urban	45,033	14.0										
	Total	252,013	78.4					<i>VL</i>		<i>M</i>			
Total - Category - B		252,013	78.4										
C1 - Concrete Wall	Rural	414	0.1										
	Urban	654	0.2										
	Total	1,068	0.3					<i>VL</i>		<i>VL</i>			
C2 - Wood wall	Rural	761	0.2										
	Urban	164	0.1										
	Total	925	0.3					<i>VL</i>		<i>H</i>			
Total - Category - C		1,993	0.6										
X - Other Materials	Rural	3,778	1.2										
	Urban	519	0.2										
	Total	4,297	1.4					<i>VL</i>		<i>H</i>			
Total - Category - X		4,297	1.3										
TOTAL HOUSES*		321,459											

ROOF													
R1 - Light Weight Sloping Roof	Rural	30,685	9.5										
	Urban	2,901	0.9										
	Total	33,586	10.4					<i>VL</i>		<i>VH</i>			
R2 - Heavy Weight Sloping Roof	Rural	223,794	69.6										
	Urban	37,310	11.6										
	Total	261,104	81.2					<i>VL</i>		<i>M</i>			
R3 - Flat Roof	Rural	15,170	4.7										
	Urban	11,599	3.6										
	Total	26,769	8.3	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		321,459											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 433 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