

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

Table No. : RJ 17

State : RAJASTHAN

BARMER

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 %				
					17.3	59.6	23.1		100			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	141,756	26.6									
	Urban	1,524	0.3									
	Total	143,280	26.9		H	M	L		H			
A2 - Stone Wall not packed with mortar	Rural	20,598	3.9									
	Urban	2,545	0.5									
	Total	23,143	4.4		H	M	L		M			
Total - Category - A		166,423	31.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	202,612	38.1									
	Urban	38,196	7.2									
	Total	240,808	45.3		M	L	VL		M			
Total - Category - B		240,808	45.3									
C1 - Concrete Wall	Rural	2,392	0.4									
	Urban	382	0.1									
	Total	2,774	0.5		L	VL	VL		VL			
C2 - Wood wall	Rural	25,853	4.9									
	Urban	131	-									
	Total	25,984	4.9		L	VL	VL		H			
Total - Category - C		28,758	5.4									
X - Other Materials	Rural	94,116	17.7									
	Urban	1,976	0.4									
	Total	96,092	18.1		VL	VL	VL		H			
Total - Category - X		96,092	18.1									
TOTAL HOUSES*		532,081										

ROOF												
R1 - Light Weight Sloping Roof	Rural	348,040	65.4									
	Urban	5,195	1.0									
	Total	353,235	66.4		M	L	VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	125,551	23.6									
	Urban	33,702	6.3									
	Total	159,253	29.9		M	L	VL		M			
R3 - Flat Roof	Rural	13,736	2.6									
	Urban	5,857	1.1									
	Total	19,593	3.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		532,081										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 470 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