

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

Table No. : RJ 09

State : RAJASTHAN

KARAULI

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 %				
						.2	99.8		100			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	42,549	12.6									
	Urban	3,658	1.1									
	Total	46,207	13.7			M	L		H			
A2 - Stone Wall not packed with mortar	Rural	56,210	16.6									
	Urban	6,090	1.8									
	Total	62,300	18.4			M	L		M			
Total - Category - A		108,507	32.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	176,938	52.2									
	Urban	41,118	12.1									
	Total	218,056	64.3			L	VL		M			
Total - Category - B		218,056	64.3									
C1 - Concrete Wall	Rural	454	0.1									
	Urban	125	-									
	Total	579	0.1			VL	VL		VL			
C2 - Wood wall	Rural	1,334	0.4									
	Urban	335	0.1									
	Total	1,669	0.5			VL	VL		H			
Total - Category - C		2,248	0.7									
X - Other Materials	Rural	9,417	2.8									
	Urban	699	0.2									
	Total	10,116	3.0			VL	VL		H			
Total - Category - X		10,116	3.0									
TOTAL HOUSES*		338,927										

ROOF												
R1 - Light Weight Sloping Roof	Rural	18,862	5.6									
	Urban	1,373	0.4									
	Total	20,235	6.0			L	VL		VH			
R2 - Heavy Weight Sloping Roof	Rural	244,088	72.0									
	Urban	39,710	11.7									
	Total	283,798	83.7			L	VL		M			
R3 - Flat Roof	Rural	23,952	7.1									
	Urban	10,942	3.2									
	Total	34,894	10.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		338,927										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **676 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