

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

Table No. : RJ 28

State : RAJASTHAN

CHITTAURGARH

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	84,268	20.1										
	Urban	2,922	0.7										
	Total	87,190	20.8					<i>L</i>		<i>H</i>			
A2 - Stone Wall not packed with mortar	Rural	45,244	10.8										
	Urban	9,245	2.2										
	Total	54,489	13.0					<i>L</i>		<i>M</i>			
Total - Category - A		141,679	33.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	202,780	48.5										
	Urban	63,244	15.1										
	Total	266,024	63.6					<i>VL</i>		<i>M</i>			
Total - Category - B		266,024	63.6										
C1 - Concrete Wall	Rural	436	0.1										
	Urban	599	0.1										
	Total	1,035	0.2					<i>VL</i>		<i>VL</i>			
C2 - Wood wall	Rural	1,721	0.4										
	Urban	397	0.1										
	Total	2,118	0.5					<i>VL</i>		<i>H</i>			
Total - Category - C		3,153	0.8										
X - Other Materials	Rural	6,283	1.5										
	Urban	1,151	0.3										
	Total	7,434	1.8					<i>VL</i>		<i>H</i>			
Total - Category - X		7,434	1.8										
TOTAL HOUSES*		418,290											

ROOF													
R1 - Light Weight Sloping Roof	Rural	56,346	13.5										
	Urban	8,174	2.0										
	Total	64,520	15.5					<i>VL</i>		<i>VH</i>			
R2 - Heavy Weight Sloping Roof	Rural	257,217	61.5										
	Urban	38,064	9.1										
	Total	295,281	70.6					<i>VL</i>		<i>M</i>			
R3 - Flat Roof	Rural	27,169	6.5										
	Urban	31,320	7.5										
	Total	58,489	14.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		418,290											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 480 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