

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

Table No. : RJ 07

State : RAJASTHAN

BHARATPUR

Wall / Roof		Census Houses		Level of Risk under									Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
				29.6	53.7	16.7		100				%	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	53,773	9.3										
	Urban	3,742	0.6										
	Total	57,515	9.9		<i>H</i>	<i>M</i>	<i>L</i>			<i>H</i>			
A2 - Stone Wall not packed with mortar	Rural	21,256	3.7										
	Urban	2,182	0.4										
	Total	23,438	4.1		<i>H</i>	<i>M</i>	<i>L</i>			<i>M</i>			
Total - Category - A		80,953	14.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	366,824	63.5										
	Urban	107,673	18.6										
	Total	474,497	82.1		<i>M</i>	<i>L</i>	<i>VL</i>			<i>M</i>			
Total - Category - B		474,497	82.2										
C1 - Concrete Wall	Rural	744	0.1										
	Urban	377	0.1										
	Total	1,121	0.2		<i>L</i>	<i>VL</i>	<i>VL</i>			<i>VL</i>			
C2 - Wood wall	Rural	1,235	0.2										
	Urban	185	-										
	Total	1,420	0.2		<i>L</i>	<i>VL</i>	<i>VL</i>			<i>H</i>			
Total - Category - C		2,541	0.4										
X - Other Materials	Rural	17,042	3.0										
	Urban	2,555	0.4										
	Total	19,597	3.4		<i>VL</i>	<i>VL</i>	<i>VL</i>			<i>H</i>			
Total - Category - X		19,597	3.4										
TOTAL HOUSES*		577,588											

ROOF												
R1 - Light Weight Sloping Roof	Rural	74,264	12.9									
	Urban	5,449	0.9									
	Total	79,713	13.8		<i>M</i>	<i>L</i>	<i>VL</i>			<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	334,575	57.9									
	Urban	101,118	17.5									
	Total	435,693	75.4		<i>M</i>	<i>L</i>	<i>VL</i>			<i>M</i>		
R3 - Flat Roof	Rural	52,035	9.0									
	Urban	10,147	1.8									
	Total	62,182	10.8		Damage Risk as per that for the Wall supporting it							
TOTAL HOUSES*		577,588										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 714 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