

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

Table No. : RJ 19

State : RAJASTHAN

SIROHI

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Pron e Area
				Area in %				Area in %				
WALL								89.0	11.0		100	
A1 - Mud & Unburnt Brick Wall	Rural	55,189	22.1									
	Urban	5,900	2.4									
	Total	61,089	24.5					<i>M</i>	<i>L</i>		<i>H</i>	
A2 - Stone Wall not packed with mortar	Rural	8,361	3.3									
	Urban	2,075	0.8									
	Total	10,436	4.1					<i>M</i>	<i>L</i>		<i>M</i>	
Total - Category - A		71,525	28.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	118,378	47.3									
	Urban	45,085	18.0									
	Total	163,463	65.3					<i>L</i>	<i>VL</i>		<i>M</i>	
Total - Category - B		163,463	65.3									
C1 - Concrete Wall	Rural	487	0.2									
	Urban	393	0.2									
	Total	880	0.4					<i>VL</i>	<i>VL</i>		<i>VL</i>	
C2 - Wood wall	Rural	706	0.3									
	Urban	190	0.1									
	Total	896	0.4					<i>VL</i>	<i>VL</i>		<i>H</i>	
Total - Category - C		1,776	0.7									
X - Other Materials	Rural	11,795	4.7									
	Urban	1,696	0.7									
	Total	13,491	5.4					<i>VL</i>	<i>VL</i>		<i>H</i>	
Total - Category - X		13,491	5.4									
TOTAL HOUSES*		250,255										

ROOF												
R1 - Light Weight Sloping Roof	Rural	41,667	16.6									
	Urban	8,769	3.5									
	Total	50,436	20.1					<i>L</i>	<i>VL</i>		<i>VH</i>	
R2 - Heavy Weight Sloping Roof	Rural	136,923	54.7									
	Urban	28,380	11.3									
	Total	165,303	66.0					<i>L</i>	<i>VL</i>		<i>M</i>	
R3 - Flat Roof	Rural	16,326	6.5									
	Urban	18,190	7.3									
	Total	34,516	13.8	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		250,255										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 485 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