

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

Table No. : RJ 20

State : RAJASTHAN

PALI

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Pron e Area
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
WALL								100		100		
A1 - Mud & Unburnt Brick Wall	Rural	84,696	15.8									
	Urban	6,250	1.2									
	Total	90,946	17.0					<i>L</i>		<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	28,076	5.2									
	Urban	4,978	0.9									
	Total	33,054	6.1					<i>L</i>		<i>M</i>		
Total - Category - A		124,000	23.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	293,514	54.9									
	Urban	99,571	18.6									
	Total	393,085	73.5					<i>VL</i>		<i>M</i>		
Total - Category - B		393,085	73.5									
C1 - Concrete Wall	Rural	1,379	0.3									
	Urban	1,465	0.3									
	Total	2,844	0.6					<i>VL</i>		<i>VL</i>		
C2 - Wood wall	Rural	1,234	0.2									
	Urban	295	0.1									
	Total	1,529	0.3					<i>VL</i>		<i>H</i>		
Total - Category - C		4,373	0.8									
X - Other Materials	Rural	11,496	2.1									
	Urban	2,019	0.4									
	Total	13,515	2.5					<i>VL</i>		<i>H</i>		
Total - Category - X		13,515	2.5									
TOTAL HOUSES*		534,973										

ROOF												
R1 - Light Weight Sloping Roof	Rural	74,955	14.0									
	Urban	15,033	2.8									
	Total	89,988	16.8					<i>VL</i>		<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	328,382	61.4									
	Urban	85,190	15.9									
	Total	413,572	77.3					<i>VL</i>		<i>M</i>		
R3 - Flat Roof	Rural	17,058	3.2									
	Urban	14,355	2.7									
	Total	31,413	5.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		534,973										

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