

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

Table No. : RJ 29

State : RAJASTHAN

KOTA

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	80,866	17.3									
	Urban	11,450	2.5									
	Total	92,316	19.8					<i>L</i>		<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	25,863	5.5									
	Urban	40,185	8.6									
	Total	66,048	14.1					<i>L</i>		<i>M</i>		
Total - Category - A		158,364	33.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	77,200	16.5									
	Urban	220,069	47.1									
	Total	297,269	63.6					<i>VL</i>		<i>M</i>		
Total - Category - B		297,269	63.6									
C1 - Concrete Wall	Rural	270	0.1									
	Urban	2,146	0.5									
	Total	2,416	0.6					<i>VL</i>		<i>VL</i>		
C2 - Wood wall	Rural	865	0.2									
	Urban	1,259	0.3									
	Total	2,124	0.5					<i>VL</i>		<i>H</i>		
Total - Category - C		4,540	1.0									
X - Other Materials	Rural	3,226	0.7									
	Urban	3,693	0.8									
	Total	6,919	1.5					<i>VL</i>		<i>H</i>		
Total - Category - X		6,919	1.5									
TOTAL HOUSES*		467,092										

ROOF												
R1 - Light Weight Sloping Roof	Rural	44,267	9.5									
	Urban	31,197	6.7									
	Total	75,464	16.2					<i>VL</i>		<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	131,384	28.1									
	Urban	150,225	32.2									
	Total	281,609	60.3					<i>VL</i>		<i>M</i>		
R3 - Flat Roof	Rural	12,639	2.7									
	Urban	97,380	20.8									
	Total	110,019	23.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		467,092										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 440 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