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

Table No. : RJ 23 **State : RAJASTHAN** **BUNDI**

Wall / Roof		Census Houses: No. of Houses	%	EQ Zone V	IV	III	II	Wind 55 & 50	47	44 & 39	33	Flood Prone Area
				Area in %			100	Area in %	100			
WALL												
A1 - Mud &	Rural	79,761	28.8									
Unburnt Brick Wall	Urban	4,909	1.8									
	Total	84,670	30.6				L		H			
A2 - Stone Wall	Rural	25,715	9.3									
not packed with mortar	Urban	8,841	3.2									
	Total	34,556	12.5				L		M			
Total - Category - A		119,226	43.0									
B - Burnt Bricks Wall	Rural	108,720	39.2									
& Stone wall packed	Urban	41,732	15.1									
with mortar	Total	150,452	54.3				VL		M			
Total - Category - B		150,452	54.3									
C1 - Concrete Wall	Rural	262	0.1									
	Urban	381	0.1									
	Total	643	0.2				VL		VL			
C2 - Wood wall	Rural	1,466	0.5									
	Urban	429	0.2									
	Total	1,895	0.7				VL		H			
Total - Category - C		2,538	0.9									
X - Other Materials	Rural	4,388	1.6									
	Urban	674	0.2									
	Total	5,062	1.8				VL		H			
Total - Category - X		5,062	1.8									
TOTAL HOUSES*		277,278										
ROOF												
R1 - Light Weight	Rural	48,881	17.6									
Sloping Roof	Urban	5,525	2.0									
	Total	54,406	19.6				VL		VH			
R2 - Heavy Weight	Rural	162,076	58.5									
Sloping Roof	Urban	40,228	14.5									
	Total	202,304	73.0				VL		M			
R3 - Flat Roof	Rural	9,355	3.4									
	Urban	11,213	4.0									
	Total	20,568	7.4	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		277,278										

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