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

Table No. : RJ 24　　　　**State : RAJASTHAN**　　　　**BHILWARA**

Wall / Roof		No. of Houses	%	V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area
		Census Houses		**EQ Zone**				**Wind Velocity m/s**				Flood Prone Area
				Area in %				Area in %				
							100		100			
WALL												
A1 - Mud &	Rural	122,687	19.8									
Unburnt Brick Wall	Urban	4,040	0.7									
	Total	**126,727**	**20.5**				*L*		*H*			
A2 - Stone Wall	Rural	55,718	9.0									
not packed with mortar	Urban	8,162	1.3									
	Total	**63,880**	**10.3**				*L*		*M*			
Total - Category - A		**190,607**	**30.7**									
B - Burnt Bricks Wall	Rural	304,184	49.0									
& Stone wall packed	Urban	112,854	18.2									
with mortar	*Total*	**417,038**	**67.2**				*VL*		*M*			
Total - Category - B		**417,038**	**67.2**									
C1 - Concrete Wall	Rural	1,173	0.2									
	Urban	1,622	0.3									
	Total	**2,795**	**0.5**				*VL*		*VL*			
C2 - Wood wall	Rural	1,146	0.2									
	Urban	270	-									
	Total	**1,416**	**0.2**				*VL*		*H*			
Total - Category - C		**4,211**	**0.7**									
X - Other Materials	Rural	7,218	1.2									
	Urban	1,219	0.2									
	Total	**8,437**	**1.4**				*VL*		*H*			
Total - Category - X		**8,437**	**1.4**									
TOTAL HOUSES*		**620,293**										
ROOF												
R1 - Light Weight	Rural	85,402	13.8									
Sloping Roof	Urban	7,718	1.2									
	Total	**93,120**	**15.0**				*VL*		*VH*			
R2 - Heavy Weight	Rural	375,276	60.5									
Sloping Roof	Urban	76,667	12.4									
	Total	**451,943**	**72.9**				*VL*		*M*			
R3 - Flat Roof	Rural	31,448	5.1									
	Urban	43,782	7.1									
	Total	**75,230**	**12.2**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**620,293**										

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