

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

Table No. : UP 51

State : UTTAR PRADESH

BALRAMPUR

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					97.9	2.1			100				42.0
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	48,373	11.4										
	Urban	1,967	0.5										
	Total	50,340	11.9		H	M		VH				VH	
A2 - Stone Wall not packed with mortar	Rural	2,696	0.6										
	Urban	297	0.1										
	Total	2,993	0.7		H	M		H				VH	
Total - Category - A		53,333	12.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	254,626	60.0										
	Urban	26,360	6.2										
	Total	280,986	66.2		M	L		H				H/M	
Total - Category - B		280,986	66.2										
C1 - Concrete Wall	Rural	1,298	0.3										
	Urban	121	-										
	Total	1,419	0.3		L	VL		L				L/VL	
C2 - Wood wall	Rural	1,971	0.5										
	Urban	83	-										
	Total	2,054	0.5		L	VL		VH				H	
Total - Category - C		3,473	0.8										
X - Other Materials	Rural	84,233	19.8										
	Urban	2,359	0.6										
	Total	86,592	20.4		VL	VL		VH				VH	
Total - Category - X		86,592	20.4										
TOTAL HOUSES*		424,384											

ROOF												
R1 - Light Weight Sloping Roof	Rural	121,239	28.6									
	Urban	2,962	0.7									
	Total	124,201	29.3		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	13,873	3.3									
	Urban	860	0.2									
	Total	14,733	3.5		M	L		H				H
R3 - Flat Roof	Rural	258,085	60.8									
	Urban	27,365	6.4									
	Total	285,450	67.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		424,384										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **433 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