

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

Table No. : UP 23

State : UTTAR PRADESH

SITAPUR

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 %				
					1.4	98.6		100				18.6
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	278,854	30.7									
	Urban	7,614	0.8									
	Total	286,468	31.5		H	M		VH			VH	
A2 - Stone Wall not packed with mortar	Rural	4,324	0.5									
	Urban	1,194	0.1									
	Total	5,518	0.6		H	M		H			VH	
Total - Category - A		291,986	32.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	393,672	43.3									
	Urban	86,108	9.5									
	Total	479,780	52.8		M	L		H			H/M	
Total - Category - B		479,780	52.7									
C1 - Concrete Wall	Rural	1,959	0.2									
	Urban	366	-									
	Total	2,325	0.2		L	VL		L			L/VL	
C2 - Wood wall	Rural	1,433	0.2									
	Urban	244	-									
	Total	1,677	0.2		L	VL		VH			H	
Total - Category - C		4,002	0.4									
X - Other Materials	Rural	126,731	13.9									
	Urban	7,214	0.8									
	Total	133,945	14.7		VL	VL		VH			VH	
Total - Category - X		133,945	14.7									
TOTAL HOUSES*		909,713										

ROOF												
R1 - Light Weight Sloping Roof	Rural	416,824	45.8									
	Urban	17,235	1.9									
	Total	434,059	47.7		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	12,108	1.3									
	Urban	3,630	0.4									
	Total	15,738	1.7		M	L		H				H
R3 - Flat Roof	Rural	378,041	41.6									
	Urban	81,875	9.0									
	Total	459,916	50.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		909,713										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **542 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