

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

Table No. : UP 53

State : UTTAR PRADESH

SIDDHARTH NAGAR

Wall / Roof		Census Houses		Level of Risk under									
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					100				100				49.9
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	57,498	11.7										
	Urban	2,173	0.4										
	Total	59,671	12.1		H			VH				VH	
A2 - Stone Wall not packed with mortar	Rural	4,343	0.9										
	Urban	457	0.1										
	Total	4,800	1.0		H			H				VH	
Total - Category - A		64,471	13.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	341,603	69.8										
	Urban	25,152	5.1										
	Total	366,755	74.9		M			H				H/M	
Total - Category - B		366,755	74.9										
C1 - Concrete Wall	Rural	3,077	0.6										
	Urban	260	0.1										
	Total	3,337	0.7		L			L				L/VL	
C2 - Wood wall	Rural	619	0.1										
	Urban	80	-										
	Total	699	0.1		L			VH				H	
Total - Category - C		4,036	0.8										
X - Other Materials	Rural	51,989	10.6										
	Urban	2,438	0.5										
	Total	54,427	11.1		VL			VH				VH	
Total - Category - X		54,427	11.1										
TOTAL HOUSES*		489,689											

ROOF												
R1 - Light Weight Sloping Roof	Rural	89,530	18.3									
	Urban	3,424	0.7									
	Total	92,954	19.0		M			VH				VH
R2 - Heavy Weight Sloping Roof	Rural	38,639	7.9									
	Urban	1,246	0.3									
	Total	39,885	8.2		M			H				H
R3 - Flat Roof	Rural	330,960	67.6									
	Urban	25,890	5.3									
	Total	356,850	72.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		489,689										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **523 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