

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

Table No. : UP 10

State : UTTAR PRADESH

GAUTAM BUDDHA 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				89.1	10.9			39.9	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	6,143	1.5										
	Urban	6,329	1.5										
	Total	12,472	3.0		<i>H</i>			<i>VH</i>	<i>H</i>			<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	2,640	0.6										
	Urban	6,505	1.6										
	Total	9,145	2.2		<i>H</i>			<i>H</i>	<i>M</i>			<i>VH</i>	
Total - Category - A		21,617	5.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	134,893	32.7										
	Urban	236,106	57.2										
	Total	370,999	89.9		<i>M</i>			<i>H</i>	<i>M</i>			<i>H/M</i>	
Total - Category - B		370,999	90.0										
C1 - Concrete Wall	Rural	1,746	0.4										
	Urban	5,824	1.4										
	Total	7,570	1.8		<i>L</i>			<i>L</i>	<i>VL</i>			<i>L/ VL</i>	
C2 - Wood wall	Rural	179	-										
	Urban	514	0.1										
	Total	693	0.1		<i>L</i>			<i>VH</i>	<i>H</i>			<i>H</i>	
Total - Category - C		8,263	2.0										
X - Other Materials	Rural	5,749	1.4										
	Urban	5,804	1.4										
	Total	11,553	2.8		<i>VL</i>			<i>VH</i>	<i>H</i>			<i>VH</i>	
Total - Category - X		11,553	2.8										
TOTAL HOUSES*		412,432											

ROOF												
R1 - Light Weight Sloping Roof	Rural	27,835	6.7									
	Urban	19,338	4.7									
	Total	47,173	11.4		<i>M</i>			<i>VH</i>	<i>VH</i>			<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	77,503	18.8									
	Urban	54,232	13.1									
	Total	131,735	31.9		<i>M</i>			<i>H</i>	<i>M</i>			<i>H</i>
R3 - Flat Roof	Rural	46,012	11.2									
	Urban	187,512	45.5									
	Total	233,524	56.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		412,432										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 550 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