

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

Table No. : UP 26

State : UTTAR PRADESH

LUCKNOW

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 %				
WALL						100		88.7	11.3			31.9
A1 - Mud & Unburnt Brick Wall	Rural	80,948	8.4									
	Urban	19,007	2.0									
	Total	99,955	10.4				<i>M</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	3,330	0.3									
	Urban	12,253	1.3									
	Total	15,583	1.6				<i>M</i>		<i>H</i>	<i>M</i>		<i>VH</i>
Total - Category - A		115,538	12.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	202,578	21.1									
	Urban	560,996	58.4									
	Total	763,574	79.5				<i>L</i>		<i>H</i>	<i>M</i>		<i>H/M</i>
Total - Category - B		763,574	79.6									
C1 - Concrete Wall	Rural	1,805	0.2									
	Urban	7,697	0.8									
	Total	9,502	1.0				<i>VL</i>		<i>L</i>	<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	511	0.1									
	Urban	713	0.1									
	Total	1,224	0.2				<i>VL</i>		<i>VH</i>	<i>H</i>		<i>H</i>
Total - Category - C		10,726	1.1									
X - Other Materials	Rural	32,387	3.4									
	Urban	37,618	3.9									
	Total	70,005	7.3				<i>VL</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
Total - Category - X		70,005	7.3									
TOTAL HOUSES*		959,843										

ROOF												
R1 - Light Weight Sloping Roof	Rural	120,471	12.6									
	Urban	64,843	6.8									
	Total	185,314	19.4				<i>L</i>		<i>VH</i>	<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	12,583	1.3									
	Urban	35,875	3.7									
	Total	48,458	5.0				<i>L</i>		<i>H</i>	<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	188,505	19.6									
	Urban	537,566	56.0									
	Total	726,071	75.6	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		959,843										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 558 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