

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

Table No. : UP 13

State : UTTAR PRADESH

MAHAMAYA 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 %				
WALL						100		20.9	79.1			24.0
A1 - Mud & Unburnt Brick Wall	Rural	15,796	4.5									
	Urban	1,878	0.5									
	Total	17,674	5.0				<i>M</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	2,672	0.8									
	Urban	1,103	0.3									
	Total	3,775	1.1				<i>M</i>		<i>H</i>	<i>M</i>		<i>VH</i>
Total - Category - A		21,449	6.1									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	249,652	71.3									
	Urban	72,153	20.6									
	Total	321,805	91.9				<i>L</i>		<i>H</i>	<i>M</i>		<i>H/M</i>
Total - Category - B		321,805	91.9									
C1 - Concrete Wall	Rural	451	0.1									
	Urban	242	0.1									
	Total	693	0.2				<i>VL</i>		<i>L</i>	<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	216	0.1									
	Urban	139	-									
	Total	355	0.1				<i>VL</i>		<i>VH</i>	<i>H</i>		<i>H</i>
Total - Category - C		1,048	0.3									
X - Other Materials	Rural	5,293	1.5									
	Urban	752	0.2									
	Total	6,045	1.7				<i>VL</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
Total - Category - X		6,045	1.7									
TOTAL HOUSES*		350,347										

ROOF												
R1 - Light Weight Sloping Roof	Rural	37,792	10.8									
	Urban	3,679	1.1									
	Total	41,471	11.9				<i>L</i>		<i>VH</i>	<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	216,235	61.7									
	Urban	61,571	17.6									
	Total	277,806	79.3				<i>L</i>		<i>H</i>	<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	20,053	5.7									
	Urban	11,017	3.1									
	Total	31,070	8.8	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		350,347										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 651 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