

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

Table No. : UP 39

State : UTTAR PRADESH

BANDA

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		100		13.3
A1 - Mud & Unburnt Brick Wall	Rural	263,236	62.4									
	Urban	14,865	3.5									
	Total	278,101	65.9					<i>L</i>		<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	1,381	0.3									
	Urban	711	0.2									
	Total	2,092	0.5					<i>L</i>		<i>M</i>		<i>VH</i>
Total - Category - A		280,193	66.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	85,129	20.2									
	Urban	43,182	10.2									
	Total	128,311	30.4					<i>VL</i>		<i>M</i>		<i>H/M</i>
Total - Category - B		128,311	30.4									
C1 - Concrete Wall	Rural	866	0.2									
	Urban	697	0.2									
	Total	1,563	0.4					<i>VL</i>		<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	240	0.1									
	Urban	56	-									
	Total	296	0.1					<i>VL</i>		<i>H</i>		<i>H</i>
Total - Category - C		1,859	0.4									
X - Other Materials	Rural	9,389	2.2									
	Urban	2,229	0.5									
	Total	11,618	2.7					<i>VL</i>		<i>H</i>		<i>VH</i>
Total - Category - X		11,618	2.8									
TOTAL HOUSES*		421,981										

ROOF												
R1 - Light Weight Sloping Roof	Rural	69,050	16.4									
	Urban	8,974	2.1									
	Total	78,024	18.5					<i>VL</i>		<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	244,602	58.0									
	Urban	20,777	4.9									
	Total	265,379	62.9					<i>VL</i>		<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	46,589	11.0									
	Urban	31,989	7.6									
	Total	78,578	18.6	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		421,981										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 562 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