

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

**Table No. : UP 47**

**State : UTTAR PRADESH**

**AMBEDKAR NAGAR**

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						100			100			29.5
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	148,859	27.5									
	Urban	7,777	1.4									
	Total	156,636	28.9			M			H			VH
A2 - Stone Wall not packed with mortar	Rural	3,123	0.6									
	Urban	782	0.1									
	Total	3,905	0.7			M			M			VH
Total - Category - A		160,541	29.7									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	278,754	51.5									
	Urban	43,668	8.1									
	Total	322,422	59.6			L			M			H/M
Total - Category - B		322,422	59.6									
C1 - Concrete Wall	Rural	1,961	0.4									
	Urban	624	0.1									
	Total	2,585	0.5			VL			VL			L/VL
C2 - Wood wall	Rural	707	0.1									
	Urban	130	-									
	Total	837	0.1			VL			H			H
Total - Category - C		3,422	0.6									
X - Other Materials	Rural	49,343	9.1									
	Urban	5,248	1.0									
	Total	54,591	10.1			VL			H			VH
Total - Category - X		54,591	10.1									
TOTAL HOUSES*		540,976										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	156,513	28.9									
	Urban	13,516	2.5									
	<b>Total</b>	<b>170,029</b>	<b>31.4</b>			L			VH			VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	121,591	22.5									
	Urban	5,959	1.1									
	<b>Total</b>	<b>127,550</b>	<b>23.6</b>			L			M			H
<b>R3 - Flat Roof</b>	Rural	204,643	37.8									
	Urban	38,754	7.2									
	<b>Total</b>	<b>243,397</b>	<b>45.0</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>540,976</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **440 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