

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

**Table No. : UP 48**

**State : UTTAR PRADESH**

**SULTANPUR**

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 %				
<b>WALL</b>												30.8
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	342,858	40.3									
	Urban	3,000	0.4									
	<b>Total</b>	<b>345,858</b>	<b>40.7</b>				<i>M</i>			<i>H</i>		<i>VH</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	6,784	0.8									
	Urban	733	0.1									
	<b>Total</b>	<b>7,517</b>	<b>0.9</b>				<i>M</i>			<i>M</i>		<i>VH</i>
<b>Total - Category - A</b>		<b>353,375</b>	<b>41.5</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	371,557	43.7									
	Urban	37,398	4.4									
	<b>Total</b>	<b>408,955</b>	<b>48.1</b>				<i>L</i>			<i>M</i>		<i>H/M</i>
<b>Total - Category - B</b>		<b>408,955</b>	<b>48.1</b>									
<b>C1 - Concrete Wall</b>	Rural	3,010	0.4									
	Urban	461	0.1									
	<b>Total</b>	<b>3,471</b>	<b>0.5</b>				<i>VL</i>			<i>VL</i>		<i>L/ VL</i>
<b>C2 - Wood wall</b>	Rural	1,443	0.2									
	Urban	137	-									
	<b>Total</b>	<b>1,580</b>	<b>0.2</b>				<i>VL</i>			<i>H</i>		<i>H</i>
<b>Total - Category - C</b>		<b>5,051</b>	<b>0.6</b>									
<b>X - Other Materials</b>	Rural	80,339	9.4									
	Urban	2,822	0.3									
	<b>Total</b>	<b>83,161</b>	<b>9.7</b>				<i>VL</i>			<i>H</i>		<i>VH</i>
<b>Total - Category - X</b>		<b>83,161</b>	<b>9.8</b>									
<b>TOTAL HOUSES*</b>		<b>850,542</b>										

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	277,926	32.7									
	Urban	4,451	0.5									
	<b>Total</b>	<b>282,377</b>	<b>33.2</b>				<i>L</i>			<i>VH</i>		<i>VH</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	202,119	23.8									
	Urban	4,032	0.5									
	<b>Total</b>	<b>206,151</b>	<b>24.3</b>				<i>L</i>			<i>M</i>		<i>H</i>
<b>R3 - Flat Roof</b>	Rural	325,946	38.3									
	Urban	36,068	4.2									
	<b>Total</b>	<b>362,014</b>	<b>42.5</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>850,542</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 630 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