

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

**Table No. : UP 31**

**State : UTTAR PRADESH**

**AURAIYA**

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>								11.1	88.9		100		17.6
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	43,985	14.9										
	Urban	2,327	0.8										
	<b>Total</b>	<b>46,312</b>	<b>15.7</b>					<i>M</i>	<i>L</i>		<i>H</i>		<i>VH</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	1,497	0.5										
	Urban	431	0.1										
	<b>Total</b>	<b>1,928</b>	<b>0.6</b>					<i>M</i>	<i>L</i>		<i>M</i>		<i>VH</i>
<b>Total - Category - A</b>		<b>48,240</b>	<b>16.3</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	177,387	59.9										
	Urban	45,462	15.4										
	<b>Total</b>	<b>222,849</b>	<b>75.3</b>					<i>L</i>	<i>VL</i>		<i>M</i>		<i>H/M</i>
<b>Total - Category - B</b>		<b>222,849</b>	<b>75.3</b>										
<b>C1 - Concrete Wall</b>	Rural	1,398	0.5										
	Urban	374	0.1										
	<b>Total</b>	<b>1,772</b>	<b>0.6</b>					<i>VL</i>	<i>VL</i>		<i>VL</i>		<i>L/ VL</i>
<b>C2 - Wood wall</b>	Rural	330	0.1										
	Urban	116	-										
	<b>Total</b>	<b>446</b>	<b>0.1</b>					<i>VL</i>	<i>VL</i>		<i>H</i>		<i>H</i>
<b>Total - Category - C</b>		<b>2,218</b>	<b>0.7</b>										
<b>X - Other Materials</b>	Rural	19,367	6.5										
	Urban	3,252	1.1										
	<b>Total</b>	<b>22,619</b>	<b>7.6</b>					<i>VL</i>	<i>VL</i>		<i>H</i>		<i>VH</i>
<b>Total - Category - X</b>		<b>22,619</b>	<b>7.6</b>										
<b>TOTAL HOUSES*</b>		<b>295,926</b>											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	97,497	32.9									
	Urban	7,429	2.5									
	<b>Total</b>	<b>104,926</b>	<b>35.4</b>					<i>L</i>	<i>VL</i>		<i>VH</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	15,106	5.1									
	Urban	1,967	0.7									
	<b>Total</b>	<b>17,073</b>	<b>5.8</b>					<i>L</i>	<i>VL</i>		<i>M</i>	
<b>R3 - Flat Roof</b>	Rural	131,361	44.4									
	Urban	42,566	14.4									
	<b>Total</b>	<b>173,927</b>	<b>58.8</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>295,926</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 571 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