

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

**Table No. : UP 20**

**State : UTTAR PRADESH**

**PILIBHIT**

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 %					
				79.5	20.5			100				23.8	
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	53,385	12.1										
	Urban	5,574	1.3										
	<b>Total</b>	<b>58,959</b>	<b>13.4</b>		<i>H</i>	<i>M</i>		<i>VH</i>				<i>VH</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	2,227	0.5										
	Urban	968	0.2										
	<b>Total</b>	<b>3,195</b>	<b>0.7</b>		<i>H</i>	<i>M</i>		<i>H</i>				<i>VH</i>	
<b>Total - Category - A</b>		<b>62,154</b>	<b>14.1</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	257,584	58.4										
	Urban	71,934	16.3										
	<b>Total</b>	<b>329,518</b>	<b>74.7</b>		<i>M</i>	<i>L</i>		<i>H</i>				<i>H/M</i>	
<b>Total - Category - B</b>		<b>329,518</b>	<b>74.7</b>										
<b>C1 - Concrete Wall</b>	Rural	618	0.1										
	Urban	321	0.1										
	<b>Total</b>	<b>939</b>	<b>0.2</b>		<i>L</i>	<i>VL</i>		<i>L</i>				<i>L/ VL</i>	
<b>C2 - Wood wall</b>	Rural	1,079	0.2										
	Urban	229	0.1										
	<b>Total</b>	<b>1,308</b>	<b>0.3</b>		<i>L</i>	<i>VL</i>		<i>VH</i>				<i>H</i>	
<b>Total - Category - C</b>		<b>2,247</b>	<b>0.5</b>										
<b>X - Other Materials</b>	Rural	44,752	10.1										
	Urban	2,569	0.6										
	<b>Total</b>	<b>47,321</b>	<b>10.7</b>		<i>VL</i>	<i>VL</i>		<i>VH</i>				<i>VH</i>	
<b>Total - Category - X</b>		<b>47,321</b>	<b>10.7</b>										
<b>TOTAL HOUSES*</b>		<b>441,240</b>											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	108,863	24.7									
	Urban	12,848	2.9									
	<b>Total</b>	<b>121,711</b>	<b>27.6</b>		<i>M</i>	<i>L</i>		<i>VH</i>				<i>VH</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	50,375	11.4									
	Urban	4,666	1.1									
	<b>Total</b>	<b>55,041</b>	<b>12.5</b>		<i>M</i>	<i>L</i>		<i>H</i>				<i>H</i>
<b>R3 - Flat Roof</b>	Rural	200,407	45.4									
	Urban	64,081	14.5									
	<b>Total</b>	<b>264,488</b>	<b>59.9</b>	<i>Damage Risk as per that for the Wall supporting it</i>								
<b>TOTAL HOUSES*</b>		<b>441,240</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 525 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