

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

**Table No. : JK 19**

**State : JAMMU & KASHMIR**

**UDHAMPUR**

Wall / Roof	Census Houses	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				
<b>WALL</b>													
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	34,397	21.7										
	Urban	1,733	1.1										
	<b>Total</b>	<b>36,130</b>	<b>22.8</b>				<i>H</i>				<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	28,722	18.2										
	Urban	493	0.3										
	<b>Total</b>	<b>29,215</b>	<b>18.5</b>				<i>H</i>				<i>L</i>		
<b>Total - Category - A</b>		<b>65,345</b>	<b>41.3</b>										
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	65,743	41.6										
	Urban	24,044	15.2										
	<b>Total</b>	<b>89,787</b>	<b>56.8</b>				<i>M</i>				<i>L</i>		
<b>Total - Category - B</b>		<b>89,787</b>	<b>56.8</b>										
<b>C1 - Concrete Wall</b>	Rural	641	0.4										
	Urban	406	0.3										
	<b>Total</b>	<b>1,047</b>	<b>0.7</b>				<i>L</i>				<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	549	0.3										
	Urban	24	-										
	<b>Total</b>	<b>573</b>	<b>0.3</b>				<i>L</i>				<i>M</i>		
<b>Total - Category - C</b>		<b>1,620</b>	<b>1.0</b>										
<b>X - Other Materials</b>	Rural	1,187	0.8										
	Urban	222	0.1										
	<b>Total</b>	<b>1,409</b>	<b>0.9</b>				<i>VL</i>				<i>M</i>		
<b>Total - Category - X</b>		<b>1,409</b>	<b>0.9</b>										
<b>TOTAL HOUSES*</b>		<b>158,161</b>											

<b>ROOF</b>													
<b>R1 - Light Weight Sloping Roof</b>	Rural	109,900	69.5										
	Urban	4,916	3.1										
	<b>Total</b>	<b>114,816</b>	<b>72.6</b>				<i>M</i>				<i>H</i>		
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	1,236	0.8										
	Urban	448	0.3										
	<b>Total</b>	<b>1,684</b>	<b>1.1</b>				<i>M</i>				<i>L</i>		
<b>R3 - Flat Roof</b>	Rural	20,103	12.7										
	Urban	21,558	13.6										
	<b>Total</b>	<b>41,661</b>	<b>26.3</b>				<i>Damage Risk as per that for the Wall supporting it</i>						
<b>TOTAL HOUSES*</b>		<b>158,161</b>											

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 400 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