

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

**Table No. : NG 06**

**State : NAGALAND**

**PHEK**

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 %				100
<b>WALL</b>				100								100
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	414	0.9									
	Urban	131	0.3									
	<b>Total</b>	<b>545</b>	<b>1.2</b>	VH								<i>M</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	90	0.2									
	Urban	28	0.1									
	<b>Total</b>	<b>118</b>	<b>0.3</b>	VH								<i>L</i>
<b>Total - Category - A</b>		<b>663</b>	<b>1.5</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	3,194	7.3									
	Urban	2,263	5.2									
	<b>Total</b>	<b>5,457</b>	<b>12.5</b>	<i>H</i>								<i>L</i>
<b>Total - Category - B</b>		<b>5,457</b>	<b>12.5</b>									
<b>C1 - Concrete Wall</b>	Rural	831	1.9									
	Urban	610	1.4									
	<b>Total</b>	<b>1,441</b>	<b>3.3</b>	<i>M</i>								<i>VL</i>
<b>C2 - Wood wall</b>	Rural	15,894	36.3									
	Urban	1,785	4.1									
	<b>Total</b>	<b>17,679</b>	<b>40.4</b>	<i>M</i>								<i>M</i>
<b>Total - Category - C</b>		<b>19,120</b>	<b>43.6</b>									
<b>X - Other Materials</b>	Rural	16,984	38.8									
	Urban	1,588	3.6									
	<b>Total</b>	<b>18,572</b>	<b>42.4</b>	<i>M</i>								<i>M</i>
<b>Total - Category - X</b>		<b>18,572</b>	<b>42.4</b>									
<b>TOTAL HOUSES*</b>		<b>43,812</b>										

ROOF												
<b>R1 - Light Weight Sloping Roof</b>	Rural	36,460	83.2									
	Urban	5,263	12.0									
	<b>Total</b>	<b>41,723</b>	<b>95.2</b>	<i>M</i>								<i>H</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	360	0.8									
	Urban	636	1.5									
	<b>Total</b>	<b>996</b>	<b>2.3</b>	<i>H</i>								<i>L</i>
<b>R3 - Flat Roof</b>	Rural	587	1.3									
	Urban	506	1.2									
	<b>Total</b>	<b>1,093</b>	<b>2.5</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>43,812</b>										

**Probable Maximum Precipitation at a Station of the district in 24 hrs is 280 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