

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

**Table No. : AP 03**

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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	55.6	41.4	3.0	5.8
<b>WALL</b>												
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	178,071	14.0									
	Urban	31,605	2.5									
	<b>Total</b>	<b>209,676</b>	<b>16.5</b>					<i>L</i>	<i>VH</i>	<i>H</i>	<i>M</i>	<i>VH</i>
<b>A2 - Stone Wall not packed with mortar</b>	Rural	8,525	0.7									
	Urban	13,209	1.0									
	<b>Total</b>	<b>21,734</b>	<b>1.7</b>					<i>L</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>VH</i>
<b>Total - Category - A</b>		<b>231,410</b>	<b>18.2</b>									
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	399,603	31.4									
	Urban	519,299	40.8									
	<b>Total</b>	<b>918,902</b>	<b>72.2</b>					<i>VL</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>H/M</i>
<b>Total - Category - B</b>		<b>918,902</b>	<b>72.1</b>									
<b>C1 - Concrete Wall</b>	Rural	6,235	0.5									
	Urban	23,841	1.9									
	<b>Total</b>	<b>30,076</b>	<b>2.4</b>					<i>VL</i>	<i>L</i>	<i>VL</i>	<i>VL</i>	<i>L/VL</i>
<b>C2 - Wood wall</b>	Rural	24,816	1.9									
	Urban	2,561	0.2									
	<b>Total</b>	<b>27,377</b>	<b>2.1</b>					<i>VL</i>	<i>VH</i>	<i>H</i>	<i>M</i>	<i>H</i>
<b>Total - Category - C</b>		<b>57,453</b>	<b>4.5</b>									
<b>X - Other Materials</b>	Rural	53,613	4.2									
	Urban	12,747	1.0									
	<b>Total</b>	<b>66,360</b>	<b>5.2</b>					<i>VL</i>	<i>VH</i>	<i>H</i>	<i>M</i>	<i>VH</i>
<b>Total - Category - X</b>		<b>66,360</b>	<b>5.2</b>									
<b>TOTAL HOUSES*</b>		<b>1,274,125</b>										

ROOF												
<b>R1 - Light Weight Sloping Roof</b>	Rural	178,097	14.0									
	Urban	86,682	6.8									
	<b>Total</b>	<b>264,779</b>	<b>20.8</b>					<i>VL</i>	<i>VH</i>	<i>VH</i>	<i>H</i>	<i>VH</i>
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	203,083	15.9									
	Urban	34,385	2.7									
	<b>Total</b>	<b>237,468</b>	<b>18.6</b>					<i>VL</i>	<i>H</i>	<i>M</i>	<i>L</i>	<i>H</i>
<b>R3 - Flat Roof</b>	Rural	289,683	22.7									
	Urban	482,195	37.8									
	<b>Total</b>	<b>771,878</b>	<b>60.5</b>					<i>Damage Risk as per that for the Wall supporting it</i>				
<b>TOTAL HOUSES*</b>		<b>1,274,125</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **817 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