

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

**Table No. : PY 04**

**State : PUDUCHERRY**

**KARAIKAL**

Wall / Roof		Census Houses		Level of Risk under							
		No. of Houses	%	EQ Zone				Wind Velocity m/s			
				V	IV	III	II	55 & 50	47	44 & 39	33
		Area in %				Area in %				Area in %	
<b>WALL</b>											
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	4,188	6.9								
	Urban	1,068	1.8								
	<b>Total</b>	<b>5,256</b>	<b>8.7</b>					<i>L</i>		<i>H</i>	
<b>A2 - Stone Wall not packed with mortar</b>	Rural	1,442	2.4								
	Urban	768	1.3								
	<b>Total</b>	<b>2,210</b>	<b>3.7</b>					<i>L</i>		<i>M</i>	
<b>Total - Category - A</b>		<b>7,466</b>	<b>12.4</b>								
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	20,819	34.5								
	Urban	24,557	40.7								
	<b>Total</b>	<b>45,376</b>	<b>75.2</b>					<i>VL</i>		<i>M</i>	
<b>Total - Category - B</b>		<b>45,376</b>	<b>75.2</b>								
<b>C1 - Concrete Wall</b>	Rural	419	0.7								
	Urban	834	1.4								
	<b>Total</b>	<b>1,253</b>	<b>2.1</b>					<i>VL</i>		<i>VL</i>	
<b>C2 - Wood wall</b>	Rural	92	0.2								
	Urban	32	0.1								
	<b>Total</b>	<b>124</b>	<b>0.3</b>					<i>VL</i>		<i>H</i>	
<b>Total - Category - C</b>		<b>1,377</b>	<b>2.3</b>								
<b>X - Other Materials</b>	Rural	4,405	7.3								
	Urban	1,734	2.9								
	<b>Total</b>	<b>6,139</b>	<b>10.2</b>					<i>VL</i>		<i>H</i>	
<b>Total - Category - X</b>		<b>6,139</b>	<b>10.2</b>								
<b>TOTAL HOUSES*</b>		<b>60,358</b>									

ROOF												
		R1 - Light Weight Sloping Roof		Rural	15,103	25.0						
		Urban		7,214	12.0							
<b>R2 - Heavy Weight Sloping Roof</b>		<b>Total</b>	<b>22,317</b>	<b>37.0</b>				<i>VL</i>		<i>VH</i>		
		Rural	3,795	6.3								
		Urban	3,381	5.6								
<b>R3 - Flat Roof</b>		<b>Total</b>	<b>7,176</b>	<b>11.9</b>				<i>VL</i>		<i>M</i>		
		Rural	12,467	20.7								
		Urban	18,398	30.5								
<b>Total</b>		<b>30,865</b>	<b>51.2</b>		Damage Risk as per that for the Wall supporting it							
<b>TOTAL HOUSES*</b>		<b>60,358</b>										

**Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 616 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