

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

Table No. : AP 09

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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 %				
								82.6	17.4	53.9	46.1	2.6
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	76,916	8.8									
	Urban	13,703	1.6									
	Total	90,619	10.4					<i>M</i>	<i>L</i>	<i>VH</i>	<i>M</i>	<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	12,107	1.4									
	Urban	3,839	0.4									
	Total	15,946	1.8					<i>M</i>	<i>L</i>	<i>H</i>	<i>L</i>	<i>VH</i>
Total - Category - A		106,565	12.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	480,261	55.1									
	Urban	212,008	24.3									
	Total	692,269	79.4					<i>L</i>	<i>VL</i>	<i>H</i>	<i>L</i>	<i>H/M</i>
Total - Category - B		692,269	79.4									
C1 - Concrete Wall	Rural	4,439	0.5									
	Urban	5,012	0.6									
	Total	9,451	1.1					<i>VL</i>	<i>VL</i>	<i>L</i>	<i>VL</i>	<i>L/VL</i>
C2 - Wood wall	Rural	4,782	0.5									
	Urban	523	0.1									
	Total	5,305	0.6					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>M</i>	<i>H</i>
Total - Category - C		14,756	1.7									
X - Other Materials	Rural	52,624	6.0									
	Urban	5,383	0.6									
	Total	58,007	6.6					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>M</i>	<i>VH</i>
Total - Category - X		58,007	6.7									
TOTAL HOUSES*		871,597										

ROOF												
R1 - Light Weight Sloping Roof	Rural	235,291	27.0									
	Urban	72,947	8.4									
	Total	308,238	35.4					<i>L</i>	<i>VL</i>	<i>VH</i>	<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	16,164	1.9									
	Urban	7,499	0.9									
	Total	23,663	2.8					<i>L</i>	<i>VL</i>	<i>H</i>	<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	379,674	43.6									
	Urban	160,022	18.4									
	Total	539,696	62.0					<i>Damage Risk as per that for the Wall supporting it</i>				
TOTAL HOUSES*		871,597										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **597 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