

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

Table No. : PN 05

State : PUNJAB

SHAHID BHAGAT SINGH NAGAR

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 %								
				100				100				85.2
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	4,395	2.2									
	Urban	968	0.5									
	Total	5,363	2.7		<i>H</i>			<i>VH</i>				<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	1,662	0.8									
	Urban	564	0.3									
	Total	2,226	1.1		<i>H</i>			<i>H</i>				<i>VH</i>
Total - Category - A		7,589	3.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	145,931	74.2									
	Urban	34,607	17.6									
	Total	180,538	91.8		<i>M</i>			<i>H</i>				<i>H/M</i>
Total - Category - B		180,538	91.8									
C1 - Concrete Wall	Rural	5,093	2.6									
	Urban	1,409	0.7									
	Total	6,502	3.3		<i>L</i>			<i>L</i>				<i>L/VL</i>
C2 - Wood wall	Rural	124	0.1									
	Urban	19	-									
	Total	143	0.1		<i>L</i>			<i>VH</i>				<i>H</i>
Total - Category - C		6,645	3.4									
X - Other Materials	Rural	1,523	0.8									
	Urban	394	0.2									
	Total	1,917	1.0		<i>VL</i>			<i>VH</i>				<i>VH</i>
Total - Category - X		1,917	1.0									
TOTAL HOUSES*		196,689										

ROOF												
R1 - Light Weight Sloping Roof	Rural	15,676	8.0									
	Urban	3,477	1.8									
	Total	19,153	9.8		<i>M</i>			<i>VH</i>				<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	15,737	8.0									
	Urban	2,886	1.5									
	Total	18,623	9.5		<i>M</i>			<i>H</i>				<i>H</i>
R3 - Flat Roof	Rural	127,315	64.7									
	Urban	31,598	16.1									
	Total	158,913	80.8		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		196,689										

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