

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

Table No. : PN 06

State : PUNJAB

FATEHGARH SAHIB

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					99.4	.6			100				100
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	3,350	2.1										
	Urban	906	0.6										
	Total	4,256	2.7		H	M		VH				VH	
A2 - Stone Wall not packed with mortar	Rural	817	0.5										
	Urban	254	0.2										
	Total	1,071	0.7		H	M		H				VH	
Total - Category - A		5,327	3.3										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	99,823	62.3										
	Urban	47,298	29.5										
	Total	147,121	91.8		M	L		H				H/M	
Total - Category - B		147,121	91.9										
C1 - Concrete Wall	Rural	4,074	2.5										
	Urban	2,309	1.4										
	Total	6,383	3.9		L	VL		L				L/VL	
C2 - Wood wall	Rural	57	-										
	Urban	56	-										
	Total	113	-		L	VL		VH				H	
Total - Category - C		6,496	4.1										
X - Other Materials	Rural	731	0.5										
	Urban	441	0.3										
	Total	1,172	0.8		VL	VL		VH				VH	
Total - Category - X		1,172	0.7										
TOTAL HOUSES*		160,116											

ROOF												
R1 - Light Weight Sloping Roof	Rural	14,104	8.8									
	Urban	3,254	2.0									
	Total	17,358	10.8		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	8,633	5.4									
	Urban	1,755	1.1									
	Total	10,388	6.5		M	L		H				H
R3 - Flat Roof	Rural	86,115	53.8									
	Urban	46,255	28.9									
	Total	132,370	82.7	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		160,116										

Probable Maximum Precipitation at a Station of the district in 24 hrs is **440 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