

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

Table No. : PN 02

State : PUNJAB

KAPURTHALA

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 %					
					100				100				65.5
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	5,638	2.5										
	Urban	1,623	0.7										
	Total	7,261	3.2		H			VH				VH	
A2 - Stone Wall not packed with mortar	Rural	1,225	0.5										
	Urban	378	0.2										
	Total	1,603	0.7		H			H				VH	
Total - Category - A		8,864	3.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	134,373	58.5										
	Urban	73,470	32.0										
	Total	207,843	90.5		M			H				H/M	
Total - Category - B		207,843	90.5										
C1 - Concrete Wall	Rural	5,730	2.5										
	Urban	4,686	2.0										
	Total	10,416	4.5		L			L				L/VL	
C2 - Wood wall	Rural	91	-										
	Urban	79	-										
	Total	170	-		L			VH				H	
Total - Category - C		10,586	4.6										
X - Other Materials	Rural	1,768	0.8										
	Urban	600	0.3										
	Total	2,368	1.1		VL			VH				VH	
Total - Category - X		2,368	1.0										
TOTAL HOUSES*		229,661											

ROOF												
R1 - Light Weight Sloping Roof	Rural	13,885	6.0									
	Urban	5,763	2.5									
	Total	19,648	8.5		M			VH				VH
R2 - Heavy Weight Sloping Roof	Rural	29,846	13.0									
	Urban	5,374	2.3									
	Total	35,220	15.3		M			H				H
R3 - Flat Roof	Rural	105,094	45.8									
	Urban	69,699	30.3									
	Total	174,793	76.1	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		229,661										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 480 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