

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

Table No. : PN 01

State : PUNJAB

GURDASPUR

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 %				
				8.7	91.3			71.5		28.5		67.2
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	27,039	4.8									
	Urban	4,079	0.7									
	Total	31,118	5.5	VH	H			VH		M		VH
A2 - Stone Wall not packed with mortar	Rural	3,608	0.6									
	Urban	1,368	0.2									
	Total	4,976	0.8	VH	H			H		L		VH
Total - Category - A		36,094	6.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	332,185	59.1									
	Urban	150,921	26.8									
	Total	483,106	85.9	H	M			H		L		H/M
Total - Category - B		483,106	85.9									
C1 - Concrete Wall	Rural	27,182	4.8									
	Urban	7,720	1.4									
	Total	34,902	6.2	M	L			L		VL		L/VL
C2 - Wood wall	Rural	320	0.1									
	Urban	373	0.1									
	Total	693	0.2	M	L			VH		M		H
Total - Category - C		35,595	6.3									
X - Other Materials	Rural	6,201	1.1									
	Urban	1,425	0.3									
	Total	7,626	1.4	M	VL			VH		M		VH
Total - Category - X		7,626	1.4									
TOTAL HOUSES*		562,421										

ROOF												
R1 - Light Weight Sloping Roof	Rural	61,911	11.0									
	Urban	13,706	2.4									
	Total	75,617	13.4	M	M			VH		H		VH
R2 - Heavy Weight Sloping Roof	Rural	61,310	10.9									
	Urban	6,160	1.1									
	Total	67,470	12.0	H	M			H		L		H
R3 - Flat Roof	Rural	273,314	48.6									
	Urban	146,020	26.0									
	Total	419,334	74.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		562,421										

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