

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

Table No. : PN 04

State : PUNJAB

HOSHIARPUR

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 %				
				4.1	95.9			79.6		20.4		81.7
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	19,884	4.1									
	Urban	2,480	0.5									
	Total	22,364	4.6	VH	H			VH		M		VH
A2 - Stone Wall not packed with mortar	Rural	3,064	0.6									
	Urban	735	0.2									
	Total	3,799	0.8	VH	H			H		L		VH
Total - Category - A		26,163	5.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	340,793	70.0									
	Urban	99,187	20.4									
	Total	439,980	90.4	H	M			H		L		H/M
Total - Category - B		439,980	90.4									
C1 - Concrete Wall	Rural	10,820	2.2									
	Urban	3,860	0.8									
	Total	14,680	3.0	M	L			L		VL		L/VL
C2 - Wood wall	Rural	286	0.1									
	Urban	170	-									
	Total	456	0.1	M	L			VH		M		H
Total - Category - C		15,136	3.1									
X - Other Materials	Rural	4,174	0.9									
	Urban	1,165	0.2									
	Total	5,339	1.1	M	VL			VH		M		VH
Total - Category - X		5,339	1.1									
TOTAL HOUSES*		486,618										

ROOF												
R1 - Light Weight Sloping Roof	Rural	58,494	12.0									
	Urban	8,139	1.7									
	Total	66,633	13.7	M	M			VH		H		VH
R2 - Heavy Weight Sloping Roof	Rural	52,441	10.8									
	Urban	6,676	1.4									
	Total	59,117	12.2	H	M			H		L		H
R3 - Flat Roof	Rural	268,086	55.1									
	Urban	92,782	19.1									
	Total	360,868	74.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		486,618										

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