

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

Table No. : HR 15

State : HARYANA

JHAJJAR

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				2.5	97.5				33.0
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	4,841	1.9											
	Urban	1,795	0.7											
	Total	6,636	2.6		H			VH	H					VH
A2 - Stone Wall not packed with mortar	Rural	2,922	1.1											
	Urban	2,530	1.0											
	Total	5,452	2.1		H			H	M					VH
Total - Category - A		12,088	4.7											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	177,141	69.2											
	Urban	59,671	23.3											
	Total	236,812	92.5		M			H	M					H/M
Total - Category - B		236,812	92.5											
C1 - Concrete Wall	Rural	2,145	0.8											
	Urban	2,702	1.1											
	Total	4,847	1.9		L			L	VL					L/VL
C2 - Wood wall	Rural	160	0.1											
	Urban	53	-											
	Total	213	0.1		L			VH	H					H
Total - Category - C		5,060	2.0											
X - Other Materials	Rural	1,224	0.5											
	Urban	697	0.3											
	Total	1,921	0.8		VL			VH	H					VH
Total - Category - X		1,921	0.8											
TOTAL HOUSES*		255,881												
ROOF														
R1 - Light Weight Sloping Roof	Rural	31,791	12.4											
	Urban	6,612	2.6											
	Total	38,403	15.0		M			VH	VH					VH
R2 - Heavy Weight Sloping Roof	Rural	108,866	42.5											
	Urban	33,259	13.0											
	Total	142,125	55.5		M			H	M					H
R3 - Flat Roof	Rural	47,776	18.7											
	Urban	27,577	10.8											
	Total	75,353	29.5	Damage Risk as per that for the Wall supporting it										
TOTAL HOUSES*		255,881												

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **537 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