

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

Table No. : HR 16

State : HARYANA

MAHENDRAGARH

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 %						
					20.3	79.7				100				
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	5,493	2.3											
	Urban	741	0.3											
	Total	6,234	2.6		H	M			H					
A2 - Stone Wall not packed with mortar	Rural	5,520	2.3											
	Urban	670	0.3											
	Total	6,190	2.6		H	M			M					
Total - Category - A		12,424	5.2											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	187,176	78.4											
	Urban	35,892	15.0											
	Total	223,068	93.4		M	L			M					
Total - Category - B		223,068	93.4											
C1 - Concrete Wall	Rural	538	0.2											
	Urban	180	0.1											
	Total	718	0.3		L	VL			VL					
C2 - Wood wall	Rural	546	0.2											
	Urban	209	0.1											
	Total	755	0.3		L	VL			H					
Total - Category - C		1,473	0.6											
X - Other Materials	Rural	1,353	0.6											
	Urban	430	0.2											
	Total	1,783	0.8		VL	VL			H					
Total - Category - X		1,783	0.7											
TOTAL HOUSES*		238,748												

ROOF													
R1 - Light Weight Sloping Roof	Rural	26,241	11.0										
	Urban	3,876	1.6										
	Total	30,117	12.6		M	L			VH				
R2 - Heavy Weight Sloping Roof	Rural	131,744	55.2										
	Urban	18,813	7.9										
	Total	150,557	63.1		M	L			M				
R3 - Flat Roof	Rural	42,641	17.9										
	Urban	15,433	6.5										
	Total	58,074	24.4	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		238,748											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **739 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