

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

Table No. : HR 01

State : HARYANA

PANCHKULA

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				66.6		33.4		67.4		
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	1,928	1.3											
	Urban	4,012	2.7											
	Total	5,940	4.0		<i>H</i>				<i>VH</i>		<i>M</i>	<i>VH</i>		
A2 - Stone Wall not packed with mortar	Rural	1,250	0.9											
	Urban	962	0.7											
	Total	2,212	1.6		<i>H</i>				<i>H</i>		<i>L</i>	<i>VH</i>		
Total - Category - A		8,152	5.6											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	58,010	39.7											
	Urban	72,655	49.8											
	Total	130,665	89.5		<i>M</i>				<i>H</i>		<i>L</i>	<i>H/M</i>		
Total - Category - B		130,665	89.5											
C1 - Concrete Wall	Rural	1,283	0.9											
	Urban	2,927	2.0											
	Total	4,210	2.9		<i>L</i>				<i>L</i>		<i>VL</i>	<i>L/ VL</i>		
C2 - Wood wall	Rural	94	0.1											
	Urban	113	0.1											
	Total	207	0.2		<i>L</i>				<i>VH</i>		<i>M</i>	<i>H</i>		
Total - Category - C		4,417	3.0											
X - Other Materials	Rural	1,683	1.2											
	Urban	1,115	0.8											
	Total	2,798	2.0		<i>VL</i>				<i>VH</i>		<i>M</i>	<i>VH</i>		
Total - Category - X		2,798	1.9											
TOTAL HOUSES*		146,032												

ROOF												
R1 - Light Weight Sloping Roof	Rural	17,124	11.7									
	Urban	11,859	8.1									
	Total	28,983	19.8		<i>M</i>				<i>VH</i>		<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	1,473	1.0									
	Urban	3,069	2.1									
	Total	4,542	3.1		<i>M</i>				<i>H</i>		<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	45,651	31.3									
	Urban	66,856	45.8									
	Total	112,507	77.1		Damage Risk as per that for the Wall supporting it							
TOTAL HOUSES*		146,032										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 600 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