

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

Table No. : UK 07

State : UTTARAKHAND

PITHORAGARH

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 %					
				95.4	4.6						100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	783	0.4										
	Urban	212	0.1										
	Total	995	0.5	VH	H						M		
A2 - Stone Wall not packed with mortar	Rural	24,430	13.4										
	Urban	494	0.3										
	Total	24,924	13.7	VH	H						L		
Total - Category - A		25,919	14.2										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	130,072	71.1										
	Urban	21,365	11.7										
	Total	151,437	82.8	H	M						L		
Total - Category - B		151,437	82.8										
C1 - Concrete Wall	Rural	2,595	1.4										
	Urban	361	0.2										
	Total	2,956	1.6	M	L						VL		
C2 - Wood wall	Rural	792	0.4										
	Urban	228	0.1										
	Total	1,020	0.5	M	L						M		
Total - Category - C		3,976	2.2										
X - Other Materials	Rural	1,040	0.6										
	Urban	471	0.3										
	Total	1,511	0.9	M	VL						M		
Total - Category - X		1,511	0.8										
TOTAL HOUSES*		182,843											

ROOF												
R1 - Light Weight Sloping Roof	Rural	15,169	8.3									
	Urban	2,961	1.6									
	Total	18,130	9.9	M	M					H		
R2 - Heavy Weight Sloping Roof	Rural	73,494	40.2									
	Urban	1,157	0.6									
	Total	74,651	40.8	H	M					L		
R3 - Flat Roof	Rural	71,049	38.9									
	Urban	19,013	10.4									
	Total	90,062	49.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		182,843										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **410 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