

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

Table No. : UK 03

State : UTTARAKHAND

RUDRAPRAYAG

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 %					
				84.9	15.1						100		
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	1,665	1.6										
	Urban	64	0.1										
	Total	1,729	1.7	VH	H					M			
A2 - Stone Wall not packed with mortar	Rural	46,362	44.2										
	Urban	198	0.2										
	Total	46,560	44.4	VH	H					L			
Total - Category - A		48,289	46.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	51,004	48.6										
	Urban	3,377	3.2										
	Total	54,381	51.8	H	M					L			
Total - Category - B		54,381	51.8										
C1 - Concrete Wall	Rural	1,011	1.0										
	Urban	15	-										
	Total	1,026	1.0	M	L					VL			
C2 - Wood wall	Rural	386	0.4										
	Urban	35	-										
	Total	421	0.4	M	L					M			
Total - Category - C		1,447	1.4										
X - Other Materials	Rural	724	0.7										
	Urban	107	0.1										
	Total	831	0.8	M	VL					M			
Total - Category - X		831	0.8										
TOTAL HOUSES*		104,948											

ROOF												
R1 - Light Weight Sloping Roof	Rural	8,759	8.3									
	Urban	594	0.6									
	Total	9,353	8.9	M	M					H		
R2 - Heavy Weight Sloping Roof	Rural	47,853	45.6									
	Urban	104	0.1									
	Total	47,957	45.7	H	M					L		
R3 - Flat Roof	Rural	44,540	42.4									
	Urban	3,098	3.0									
	Total	47,638	45.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		104,948										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **314 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