

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

Table No. : UK 08

State : UTTARAKHAND

BAGESHWAR

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						100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	926	1.1									
	Urban	101	0.1									
	Total	1,027	1.2	VH						M		
A2 - Stone Wall not packed with mortar	Rural	10,657	12.1									
	Urban	83	0.1									
	Total	10,740	12.2	VH						L		
Total - Category - A		11,767	13.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	70,860	80.4									
	Urban	2,986	3.4									
	Total	73,846	83.8	H						L		
Total - Category - B		73,846	83.8									
C1 - Concrete Wall	Rural	1,169	1.3									
	Urban	192	0.2									
	Total	1,361	1.5	M						VL		
C2 - Wood wall	Rural	549	0.6									
	Urban	8	-									
	Total	557	0.6	M						M		
Total - Category - C		1,918	2.2									
X - Other Materials	Rural	534	0.6									
	Urban	26	-									
	Total	560	0.6	M						M		
Total - Category - X		560	0.6									
TOTAL HOUSES*		88,091										

ROOF												
R1 - Light Weight Sloping Roof	Rural	10,114	11.5									
	Urban	342	0.4									
	Total	10,456	11.9	M						H		
R2 - Heavy Weight Sloping Roof	Rural	37,217	42.2									
	Urban	172	0.2									
	Total	37,389	42.4	H						L		
R3 - Flat Roof	Rural	37,364	42.4									
	Urban	2,882	3.3									
	Total	40,246	45.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		88,091										

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