

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

Table No. : UP 48

State : UTTAR PRADESH

SULTANPUR

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
				100				100				30.8
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	342,858	40.3									
	Urban	3,000	0.4									
	Total	345,858	40.7				<i>M</i>			<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	6,784	0.8									
	Urban	733	0.1									
	Total	7,517	0.9				<i>M</i>			<i>M</i>		<i>VH</i>
Total - Category - A		353,375	41.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	371,557	43.7									
	Urban	37,398	4.4									
	Total	408,955	48.1				<i>L</i>			<i>M</i>		<i>H/M</i>
Total - Category - B		408,955	48.1									
C1 - Concrete Wall	Rural	3,010	0.4									
	Urban	461	0.1									
	Total	3,471	0.5				<i>VL</i>			<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	1,443	0.2									
	Urban	137	-									
	Total	1,580	0.2				<i>VL</i>			<i>H</i>		<i>H</i>
Total - Category - C		5,051	0.6									
X - Other Materials	Rural	80,339	9.4									
	Urban	2,822	0.3									
	Total	83,161	9.7				<i>VL</i>			<i>H</i>		<i>VH</i>
Total - Category - X		83,161	9.8									
TOTAL HOUSES*		850,542										

ROOF												
R1 - Light Weight Sloping Roof	Rural	277,926	32.7									
	Urban	4,451	0.5									
	Total	282,377	33.2				<i>L</i>			<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	202,119	23.8									
	Urban	4,032	0.5									
	Total	206,151	24.3				<i>L</i>			<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	325,946	38.3									
	Urban	36,068	4.2									
	Total	362,014	42.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		850,542										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 630 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