

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

Table No. : UP 28

State : UTTAR PRADESH

FARRUKHABAD

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 %				
WALL								100		100		51.1
A1 - Mud & Unburnt Brick Wall	Rural	42,517	10.9									
	Urban	4,250	1.1									
	Total	46,767	12.0				<i>M</i>		<i>VH</i>			<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	2,603	0.7									
	Urban	1,516	0.4									
	Total	4,119	1.1				<i>M</i>		<i>H</i>			<i>VH</i>
Total - Category - A		50,886	13.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	227,372	58.2									
	Urban	76,772	19.7									
	Total	304,144	77.9				<i>L</i>		<i>H</i>			<i>H/M</i>
Total - Category - B		304,144	77.9									
C1 - Concrete Wall	Rural	2,040	0.5									
	Urban	1,080	0.3									
	Total	3,120	0.8				<i>VL</i>		<i>L</i>			<i>L/ VL</i>
C2 - Wood wall	Rural	393	0.1									
	Urban	105	-									
	Total	498	0.1				<i>VL</i>		<i>VH</i>			<i>H</i>
Total - Category - C		3,618	0.9									
X - Other Materials	Rural	28,788	7.4									
	Urban	2,996	0.8									
	Total	31,784	8.2				<i>VL</i>		<i>VH</i>			<i>VH</i>
Total - Category - X		31,784	8.1									
TOTAL HOUSES*		390,432										

ROOF												
R1 - Light Weight Sloping Roof	Rural	93,527	24.0									
	Urban	10,306	2.6									
	Total	103,833	26.6				<i>L</i>		<i>VH</i>			<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	10,272	2.6									
	Urban	2,332	0.6									
	Total	12,604	3.2				<i>L</i>		<i>H</i>			<i>H</i>
R3 - Flat Roof	Rural	199,914	51.2									
	Urban	74,081	19.0									
	Total	273,995	70.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		390,432										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 569 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