

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

Table No. : CT 04

State : CHHATTISGARH

RAIGARH

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				41.2	58.8				100			
A1 - Mud & Unburnt Brick Wall	Rural	259,028	64.7									
	Urban	22,792	5.7									
	Total	281,820	70.4				<i>M</i>	<i>L</i>			<i>M</i>	
A2 - Stone Wall not packed with mortar	Rural	10,906	2.7									
	Urban	475	0.1									
	Total	11,381	2.8				<i>M</i>	<i>L</i>			<i>L</i>	
Total - Category - A		293,201	73.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	65,071	16.2									
	Urban	35,775	8.9									
	Total	100,846	25.1				<i>L</i>	<i>VL</i>			<i>L</i>	
Total - Category - B		100,846	25.2									
C1 - Concrete Wall	Rural	1,020	0.3									
	Urban	544	0.1									
	Total	1,564	0.4				<i>VL</i>	<i>VL</i>			<i>VL</i>	
C2 - Wood wall	Rural	555	0.1									
	Urban	69	-									
	Total	624	0.1				<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - C		2,188	0.5									
X - Other Materials	Rural	3,283	0.8									
	Urban	970	0.2									
	Total	4,253	1.0				<i>VL</i>	<i>VL</i>			<i>M</i>	
Total - Category - X		4,253	1.1									
TOTAL HOUSES*		400,488										

ROOF												
R1 - Light Weight Sloping Roof	Rural	28,535	7.1									
	Urban	11,436	2.9									
	Total	39,971	10.0				<i>L</i>	<i>VL</i>			<i>H</i>	
R2 - Heavy Weight Sloping Roof	Rural	272,220	68.0									
	Urban	25,819	6.4									
	Total	298,039	74.4				<i>L</i>	<i>VL</i>			<i>L</i>	
R3 - Flat Roof	Rural	39,108	9.8									
	Urban	23,370	5.8									
	Total	62,478	15.6				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		400,488										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 520 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