

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

Table No. : CT 01

State : CHHATTISGARH

KORIYA

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	102,779	60.8									
	Urban	16,040	9.5									
	Total	118,819	70.3			M				M		
A2 - Stone Wall not packed with mortar	Rural	139	0.1									
	Urban	309	0.2									
	Total	448	0.3			M				L		
Total - Category - A		119,267	70.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	11,985	7.1									
	Urban	35,727	21.1									
	Total	47,712	28.2			L				L		
Total - Category - B		47,712	28.2									
C1 - Concrete Wall	Rural	154	0.1									
	Urban	374	0.2									
	Total	528	0.3			VL				VL		
C2 - Wood wall	Rural	52	-									
	Urban	38	-									
	Total	90	-			VL				M		
Total - Category - C		618	0.4									
X - Other Materials	Rural	709	0.4									
	Urban	727	0.4									
	Total	1,436	0.8			VL				M		
Total - Category - X		1,436	0.8									
TOTAL HOUSES*		169,033										

ROOF												
R1 - Light Weight Sloping Roof	Rural	9,738	5.8									
	Urban	17,463	10.3									
	Total	27,201	16.1			L				H		
R2 - Heavy Weight Sloping Roof	Rural	97,891	57.9									
	Urban	16,536	9.8									
	Total	114,427	67.7			L				L		
R3 - Flat Roof	Rural	8,189	4.8									
	Urban	19,216	11.4									
	Total	27,405	16.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		169,033										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **443 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