

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

Table No. : CT 05

State : CHHATTISGARH

KORBA

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 %				
						51.2	48.8			100		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	148,930	48.6									
	Urban	32,309	10.5									
	Total	181,239	59.1			M	L			M		
A2 - Stone Wall not packed with mortar	Rural	777	0.3									
	Urban	331	0.1									
	Total	1,108	0.4			M	L			L		
Total - Category - A		182,347	59.5									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	42,933	14.0									
	Urban	74,833	24.4									
	Total	117,766	38.4			L	VL			L		
Total - Category - B		117,766	38.4									
C1 - Concrete Wall	Rural	822	0.3									
	Urban	1,131	0.4									
	Total	1,953	0.7			VL	VL			VL		
C2 - Wood wall	Rural	713	0.2									
	Urban	89	-									
	Total	802	0.2			VL	VL			M		
Total - Category - C		2,755	0.9									
X - Other Materials	Rural	2,010	0.7									
	Urban	1,441	0.5									
	Total	3,451	1.2			VL	VL			M		
Total - Category - X		3,451	1.1									
TOTAL HOUSES*		306,319										

ROOF												
R1 - Light Weight Sloping Roof	Rural	22,417	7.3									
	Urban	32,345	10.6									
	Total	54,762	17.9			L	VL			H		
R2 - Heavy Weight Sloping Roof	Rural	158,137	51.6									
	Urban	34,383	11.2									
	Total	192,520	62.8			L	VL			L		
R3 - Flat Roof	Rural	15,631	5.1									
	Urban	43,406	14.2									
	Total	59,037	19.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		306,319										

Probable Maximum Precipitation at a Station of the district in 24 hrs is 440 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