

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

Table No. : OR 26

State : ODISHA

KALAHANDI

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		
A1 - Mud & Unburnt Brick Wall	Rural	171,516	36.1										
	Urban	8,183	1.7										
	Total	179,699	37.8					<i>L</i>			<i>M</i>		
A2 - Stone Wall not packed with mortar	Rural	2,626	0.6										
	Urban	395	0.1										
	Total	3,021	0.7					<i>L</i>			<i>L</i>		
Total - Category - A		182,720	38.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	204,891	43.1										
	Urban	21,968	4.6										
	Total	226,859	47.7					<i>VL</i>			<i>L</i>		
Total - Category - B		226,859	47.7										
C1 - Concrete Wall	Rural	7,673	1.6										
	Urban	1,866	0.4										
	Total	9,539	2.0					<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	10,908	2.3										
	Urban	350	0.1										
	Total	11,258	2.4					<i>VL</i>			<i>M</i>		
Total - Category - C		20,797	4.4										
X - Other Materials	Rural	42,642	9.0										
	Urban	2,193	0.5										
	Total	44,835	9.5					<i>VL</i>			<i>M</i>		
Total - Category - X		44,835	9.4										
TOTAL HOUSES*		475,211											

ROOF													
R1 - Light Weight Sloping Roof	Rural	33,302	7.0										
	Urban	5,674	1.2										
	Total	38,976	8.2					<i>VL</i>			<i>H</i>		
R2 - Heavy Weight Sloping Roof	Rural	379,917	79.9										
	Urban	17,936	3.8										
	Total	397,853	83.7					<i>VL</i>			<i>L</i>		
R3 - Flat Roof	Rural	27,037	5.7										
	Urban	11,345	2.4										
	Total	38,382	8.1	<i>Damage Risk as per that for the Wall supporting it</i>									
TOTAL HOUSES*		475,211											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 625 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 chocked 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