

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

Table No. : JD 17

State : JHARKHAND

DUMKA

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	Flood Prone Area in %
				Area in %					Area in %			
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	222,894	71.6									
	Urban	5,452	1.8									
	Total	228,346	73.4				<i>M</i>			<i>H</i>		
A2 - Stone Wall not packed with mortar	Rural	813	0.3									
	Urban	50	-									
	Total	863	0.3				<i>M</i>			<i>M</i>		
Total - Category - A		229,209	73.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	57,647	18.5									
	Urban	14,564	4.7									
	Total	72,211	23.2				<i>L</i>			<i>M</i>		
Total - Category - B		72,211	23.2									
C1 - Concrete Wall	Rural	1,019	0.3									
	Urban	534	0.2									
	Total	1,553	0.5				<i>VL</i>			<i>VL</i>		
C2 - Wood wall	Rural	465	0.1									
	Urban	48	-									
	Total	513	0.1				<i>VL</i>			<i>H</i>		
Total - Category - C		2,066	0.7									
X - Other Materials	Rural	7,733	2.5									
	Urban	257	0.1									
	Total	7,990	2.6				<i>VL</i>			<i>H</i>		
Total - Category - X		7,990	2.6									
TOTAL HOUSES*		311,476										

ROOF												
R1 - Light Weight Sloping Roof	Rural	78,517	25.2									
	Urban	1,709	0.5									
	Total	80,226	25.7				<i>L</i>			<i>VH</i>		
R2 - Heavy Weight Sloping Roof	Rural	183,441	58.9									
	Urban	7,949	2.6									
	Total	191,390	61.5				<i>L</i>			<i>M</i>		
R3 - Flat Roof	Rural	28,613	9.2									
	Urban	11,247	3.6									
	Total	39,860	12.8				<i>Damage Risk as per that for the Wall supporting it</i>					
TOTAL HOUSES*		311,476										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 651 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