

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

Table No. : WB 05

STATE : WEST BENGAL

DAKSHIN DINAJPUR

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 %		100		100		53.5
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	251,876	55.8									
	Urban	5,918	1.3									
	Total	257,794	57.1		<i>H</i>				<i>H</i>			<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	719	0.2									
	Urban	442	0.1									
	Total	1,161	0.3		<i>H</i>				<i>M</i>			<i>VH</i>
Total - Category - A		258,955	57.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	49,669	11.0									
	Urban	38,816	8.6									
	Total	88,485	19.6		<i>M</i>				<i>M</i>			<i>H/M</i>
Total - Category - B		88,485	19.6									
C1 - Concrete Wall	Rural	5,954	1.3									
	Urban	3,507	0.8									
	Total	9,461	2.1		<i>L</i>				<i>VL</i>			<i>L/ VL</i>
C2 - Wood wall	Rural	411	0.1									
	Urban	359	0.1									
	Total	770	0.2		<i>L</i>				<i>H</i>			<i>H</i>
Total - Category - C		10,231	2.3									
X - Other Materials	Rural	74,996	16.6									
	Urban	18,895	4.2									
	Total	93,891	20.8		<i>VL</i>				<i>H</i>			<i>VH</i>
Total - Category - X		93,891	20.8									
TOTAL HOUSES*		451,562										

ROOF												
R1 - Light Weight Sloping Roof	Rural	345,344	76.5									
	Urban	36,404	8.1									
	Total	381,748	84.6		<i>M</i>				<i>VH</i>			<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	17,757	3.9									
	Urban	2,473	0.5									
	Total	20,230	4.4		<i>M</i>				<i>M</i>			<i>H</i>
R3 - Flat Roof	Rural	20,524	4.5									
	Urban	29,060	6.4									
	Total	49,584	10.9		Damage Risk as per that for the Wall supporting it							
TOTAL HOUSES*		451,562										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 694 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