

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

Table No. : MP 05

State : MADHYA PRADESH

DATIA

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 %					
WALL								100		100			
A1 - Mud & Unburnt Brick Wall	Rural	62,880	32.3										
	Urban	7,212	3.7										
	Total	70,092	36.0					<i>L</i>		<i>H</i>			
A2 - Stone Wall not packed with mortar	Rural	2,532	1.3										
	Urban	503	0.3										
	Total	3,035	1.6					<i>L</i>		<i>M</i>			
Total - Category - A		73,127	37.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	86,132	44.2										
	Urban	30,309	15.6										
	Total	116,441	59.8					<i>VL</i>		<i>M</i>			
Total - Category - B		116,441	59.8										
C1 - Concrete Wall	Rural	232	0.1										
	Urban	276	0.1										
	Total	508	0.2					<i>VL</i>		<i>VL</i>			
C2 - Wood wall	Rural	87	-										
	Urban	69	-										
	Total	156	-					<i>VL</i>		<i>H</i>			
Total - Category - C		664	0.3										
X - Other Materials	Rural	3,422	1.8										
	Urban	1,176	0.6										
	Total	4,598	2.4					<i>VL</i>		<i>H</i>			
Total - Category - X		4,598	2.4										
TOTAL HOUSES*		194,830											

ROOF													
R1 - Light Weight Sloping Roof	Rural	21,314	10.9										
	Urban	3,499	1.8										
	Total	24,813	12.7					<i>VL</i>		<i>VH</i>			
R2 - Heavy Weight Sloping Roof	Rural	130,785	67.1										
	Urban	31,329	16.1										
	Total	162,114	83.2					<i>VL</i>		<i>M</i>			
R3 - Flat Roof	Rural	3,186	1.6										
	Urban	4,717	2.4										
	Total	7,903	4.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		194,830											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 652 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