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

Table No. : MZ 04 **State : MIZORAM** **CHAMPHAI**

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 %					
				100				100					
WALL													
A1 - Mud &	Rural	67	0.2										
Unburnt Brick Wall	Urban	52	0.2										
	Total	*119*	*0.4*	VH				VH					
A2 - Stone Wall	Rural	26	0.1										
not packed with mortar	Urban	22	0.1										
	Total	*48*	*0.2*	VH				H					
Total - Category - A		*167*	*0.6*										
B - Burnt Bricks Wall	Rural	771	2.6										
& Stone wall packed	Urban	584	2.0										
with mortar	*Total*	*1,355*	*4.6*	H				H					
Total - Category - B		*1,355*	*4.5*										
C1 - Concrete Wall	Rural	312	1.0										
	Urban	1,878	6.3										
	Total	*2,190*	*7.3*	M				L					
C2 - Wood wall	Rural	1,034	3.5										
	Urban	240	0.8										
	Total	*1,274*	*4.3*	M				VH					
Total - Category - C		*3,464*	*11.6*										
X - Other Materials	Rural	15,655	52.4										
	Urban	9,240	30.9										
	Total	*24,895*	*83.3*	M				VH					
Total - Category - X		*24,895*	*83.3*										
TOTAL HOUSES*		**29,881**											
ROOF													
R1 - Light Weight	Rural	17,322	58.0										
Sloping Roof	Urban	10,572	35.4										
	Total	*27,894*	*93.4*	M				VH					
R2 - Heavy Weight	Rural	326	1.1										
Sloping Roof	Urban	99	0.3										
	Total	*425*	*1.4*	H				H					
R3 - Flat Roof	Rural	217	0.7										
	Urban	1,345	4.5										
	Total	*1,562*	*5.2*	*Damage Risk as per that for the Wall supporting it*									
TOTAL HOUSES*		**29,881**											

Probable Maximum Precipitation at a Station of the district in 24 hrs is 640 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

bmtpc **Building Materials & Technology Promotion Council** **Peer Group, MoHUA, GOI**