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

Table No. : TL 10　　　　　　**TELANGANA**　　　　　　**KHAMMAM**

Wall / Roof		Census Houses – No. of Houses	%	EQ Zone V	EQ Zone IV	EQ Zone III	EQ Zone II	Wind 55 & 50	Wind 47	Wind 44 & 39	Wind 33	Flood Prone Area in %
				Area in %				Area in %				
						94.0	6.0			100		5.0
WALL												
A1 - Mud &	Rural	74,280	9.0									
Unburnt Brick Wall	Urban	10,955	1.3									
	Total	**85,235**	**10.3**			M	L			M		VH
A2 - Stone Wall	Rural	7,512	0.9									
not packed with mortar	Urban	3,190	0.4									
	Total	**10,702**	**1.3**			M	L			L		VH
Total - Category - A		**95,937**	**11.6**									
B - Burnt Bricks Wall	Rural	386,792	46.6									
& Stone wall packed	Urban	156,112	18.8									
with mortar	**Total**	**542,904**	**65.4**			L	VL			L		H/M
Total - Category - B		**542,904**	**65.4**									
C1 - Concrete Wall	Rural	7,124	0.9									
	Urban	7,816	0.9									
	Total	**14,940**	**1.8**			VL	VL			VL		L/VL
C2 - Wood wall	Rural	14,410	1.7									
	Urban	1,021	0.1									
	Total	**15,431**	**1.8**			VL	VL			M		H
Total - Category - C		**30,371**	**3.7**									
X - Other Materials	Rural	151,120	18.2									
	Urban	9,415	1.1									
	Total	**160,535**	**19.3**			VL	VL			M		VH
Total - Category - X		**160,535**	**19.3**									
TOTAL HOUSES*		**829,747**										
ROOF												
R1 - Light Weight	Rural	252,883	30.5									
Sloping Roof	Urban	53,860	6.5									
	Total	**306,743**	**37.0**			L	VL			H		VH
R2 - Heavy Weight	Rural	95,108	11.5									
Sloping Roof	Urban	20,918	2.5									
	Total	**116,026**	**14.0**			L	VL			L		H
R3 - Flat Roof	Rural	293,247	35.3									
	Urban	113,731	13.7									
	Total	**406,978**	**49.0**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**829,747**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.　779 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