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

Table No. : UP 67 **State : UTTAR PRADESH** **SANT RAVIDAS NAGAR (BHADOHI)**

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 %				
						59.0	41.0		100			51.5
WALL												
A1 - Mud &	Rural	91,541	28.4									
Unburnt Brick Wall	Urban	5,128	1.6									
	Total	**96,669**	**30.0**			M	L		H			VH
A2 - Stone Wall	Rural	2,964	0.9									
not packed with mortar	Urban	721	0.2									
	Total	**3,685**	**1.1**			M	L		M			VH
Total - Category - A		**100,354**	**31.2**									
B - Burnt Bricks Wall	Rural	162,548	50.5									
& Stone wall packed	Urban	34,426	10.7									
with mortar	*Total*	**196,974**	**61.2**			L	VL		M			H/M
Total - Category - B		**196,974**	**61.2**									
C1 - Concrete Wall	Rural	1,071	0.3									
	Urban	287	0.1									
	Total	**1,358**	**0.4**			VL	VL		VL			L/VL
C2 - Wood wall	Rural	545	0.2									
	Urban	91	-									
	Total	**636**	**0.2**			VL	VL		H			H
Total - Category - C		**1,994**	**0.6**									
X - Other Materials	Rural	20,960	6.5									
	Urban	1,792	0.6									
	Total	**22,752**	**7.1**			VL	VL		H			VH
Total - Category - X		**22,752**	**7.1**									
TOTAL HOUSES*		**322,074**										
ROOF												
R1 - Light Weight	Rural	67,610	21.0									
Sloping Roof	Urban	7,198	2.2									
	Total	**74,808**	**23.2**			L	VL		VH			VH
R2 - Heavy Weight	Rural	182,481	56.7									
Sloping Roof	Urban	28,052	8.7									
	Total	**210,533**	**65.4**			L	VL		M			H
R3 - Flat Roof	Rural	29,538	9.2									
	Urban	7,195	2.2									
	Total	**36,733**	**11.4**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**322,074**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.   517 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