## L.4.4. FORM No 2(d)

## CERTIFICATE UNDERTAKING FOR HAZARD SAFETY REQUIREMENT

To,								
REF: Proposed work of		(Title of project)						
C.S. No./RS.NONO. (F.P. No Taluka	T.P.S. No	In ware	d No Village/Town/City	at Village				
Certified that the building plans subm 15.3 and the information given therein structural design including safety from these provisions shall be adhered to du	is factually correct to the best hazards based on soil condit	t of our knowledge and ι	understanding. It is also cer	tified that the				
Signature of Owner with date	Signature of th	ne						
Name in Block Letters	Structural Eng	ineer with date						
Address	Name in Block	Letters						
Signature of the	Signature of th	ne						
Developer with date	Architect with	date						
Name in Block Letters	Name in Block	Letters						
Address	Address							

## To be annexed with Form 2(d)

Building Information Schedule

1 Encircle the applicable data point

2 \* means 'any other, specify'

1 Building address	Plot No.	Scheme / Colony	:	Town:			District:	Initials checking staff	of	Reference	
2 Building	2.1 Occupar	ncy Classification								Regulation 2.9	
category	2.2 Type of Construction		Туре 1	Туре	2 Type :		3	Type 4		7.1.2 of Part III & 4 of Part IV of NBC	
3	3.1 Land use	e zoning			Regulation						
Location	3.2 Seismic	zone	V IV		Ш		IV III II		II		IS 1893
	Design intensity(MM / MSK)		IX	VIII		VII		VI		Vul. Atlas	
	s		Wind speed+55/5 33	speed+55/50/47/44/39/		, , , ,		Max. storm surge = m		IS 875 Part 3 Vul. Atlas	
	3.4 Flood proneness of site		River plain Unprotected / Protected		possible - Yes / No					Vul. Atlas	

	3.5 Prone to land slides								IS 2)	314496(Part	
4 Foundati	4.1 Site and sub-soil investigation No. of Boreholes, Depthm, N-values   B.C. Plate Load Test Yes/No No. of Boreholes									IS 1892	
on	4.2 Soil type at site (Note 2)	Rocky / Stiff	Medium	Soft	Liquefi	Liquefiable Expa (Blac cottor		*		5 1904, 5 6403	
	Stiff – N>30; Medium- N=10 - water table ( see Note 5 of Table 1 in IS 1	IS 2131									
4 Foundati on <i>(contd)</i>	4.3 Depth of water table below GL							·			
	4.4 Bearing capacity at site (used in design)	For normal lo = t/m <sup>2</sup>		Q t/m <sup>2</sup>	With wi	nd /m <sup>2</sup>	With f			IS 1888, IS 1904, IS 6403 IS 8099(Pt 1 &2)	
	4.5 Type of footing / Foundation used	Strip	Individual column footing / Ra		ng piles	Friction pile	es '	*		IS 1080 IS 1893 IS 13063	

5 Super- structure	5.1 Storeys etc	Basements N 0/1/2/3				eys Attic Yes / No		Lift house Yes / No			Water tank on roof Capacit y I	
	5.2 Bearing walls	Bricks	Ston	e	Solic	l block	Hollow block		Adobe	9	*	
	5.2.1 Mortar	C:S = 1:	1: C:L		:	L:S = 1	•	Clay	Mud		*	
	-	C = Cement	S =	= Sand	L =	Lime						
-	5.3 Frame work	RC columns beams	8 &	Steel of beams			Wood trusses	post	5 &	*		
	5.3.1 Infill panels	Glass	Brick walls Wood			Wood p	d panelling *					
	5.4 Floors	RC slabs	abs		slat	bs on Prefab elements breams				*		
	5.5 Roof	Flat like floors	s / Pi	tched		ssed / F ne / Slop			*			
	5.6 Roof covering	CGI sheeting	ļ	AC shee	ting	Clay ti	les	Woo	od shing	gle	*	
6 Building importanc e	6.1 Importance	Ordinary			Imc	Imortant		Haza		azardous		IS 1893
7 Design	7.1 Factor for EQ	α <sub>0</sub> =		l =			β =			$\alpha_h$	=	IS 1893

factors	7.2 Factor for wind	k <sub>1</sub> =	k <sub>2</sub> =			k <sub>3</sub> =		p	n =		IS 875 (Pt3)
8 Safety of pitched roof where used	8.1 Bracing provided	In plan Yes / No / NA				In plane of rafters Yes / No / NA			lane of columns o / NA		IS 4326 Cyclone guide
	8.2 Roof anchorage	To walls: Bolt length =	_	To RC columns: Bolt length = cm				den posts, straps & ails		Cyclone guide	
	8.3 Connections	Covering to pur J-bolt / ire	Purlins to rafters Bolt / Wire				lements g / Bolts / Straps	,	Cyclone guide		
9 Load bearing wall buildings	9.1 Building category	$ \begin{array}{c c} A & & B \\ \alpha_h < 0.05 & & \alpha_h = 0.08 \\ 0.06 & & \end{array} $		05 to			= 0.04 0.12	$\begin{array}{c} E \\ \alpha_{h} \\ 0.12 \\ = \end{array}$		IS 4326, IS 13828	
	9.2 Building configuration	Plan Shape L/T/Y/C/E	to	aration get rec / No				ojection > ogth Yes /		IS 4326	
	9.3 Opening in walls	Control used of Yes / No / NA	location			Strengthening around Yes / No / NA			IS 4326, IS 13828		

	9.4 Bands provided	Plinth band Yes / No / NA	Lintel Yes / NA	band No /	Eave band Yes / No / NA	Roof band Yes / No / NA	Gable band Yes / No / NA	Ridge band Yes / No / NA	IS 4326, IS 13828
	9.5 Vertical bars	At corners of rooms Yes / No / NA		At jambs of Yes / No / N		*		IS 4326, IS 13828 Cyclone guide	
	9.6 Stiffening of floors / roof with separate units	band	band and co		heral band connectors No / NA	Diagonal and band Yes / No /	around	*	IS 4326
	9.7 Framed thin wall construction	Bonding of columns with the wall ensured Yes / No (Fig 13 of IS 4326)							IS 4326
10 Safety of wooden buildings	10.1 Holding down			Wood posts anchored Yes / No / NA		Framed, resting on pedestals Yes / No / NA		IS 4326 Cyclone guide	
	10.2 Bracing of wood frame			onal / knee ng in plan No / NA	Stiff wall panel		Brick noggin with hold fasts	IS 4326 Cyclone guide	

	10.3 Connections	Framed with iron Bolted strips		d Nailed			*		4326 clone ide
11 Safety of steel / RC frame buildings	11.1 Building shape	Both axes symmet	rical	One axis symmetrical		-	mmetrical in or section		
	11.2 Analysis used	Equivalent static	Model		Dynamic		Torsional effects considered Yes / No		IS 1893
	11.3 Method of design used	Working stress		Limit state		Plasti	ic theory		IS 456,IS 800 SP 6(6)
	11.4 Infills / partitions	Out of plane stabil	ity che	ck Yes / No In-plane stiffr Yes / No			considered		IS 1893, IS 4326, Cyclone guide
	11.5 Detailing of RC fames	Beams Yes / No	Colur No	mns Yes /	Beam – column joint Yes / No		Shear walls Yes / No		IS 13920
	11.6 Detailing of steel fames	Beams Yes / No		Columns Y	join		Beam – column joint Yes / No		SP 6 (6)

NBC Part	12.1 Provision for water	Under ground tank : Provided / Not provided Capacity: I	Over head Provided / N Capacity:		Adequate pumping Provided / Not provided Capacity: I/minute Pressure:					
	12.2 Provision for first aid fire fighting	Provided / Not provided	Provided / Not provided / Not applicable							
	12.3 Installation of systems	Provided / Not provided		NBC Part IV						
	12.4 Earthling design and provision	Designed / Not designed		Provided /	Not provided		IS 3043			