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C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

STABILITY CERTIFICATE

(To be furnished while filing application for registration of building)

It is certified that the proposed construction (G+1 – 59 Blocks, G – 1 Block) **M/s.NAAVAL PROPERTIES AND DEVELOPERS LLP, SF.No: 65/10A ,At Murungapatty Panchayat/Village, Veerapandi Panchayat Union, Salem West Taluk, Salem**. is designed to resist earthquake. Check has been made and found safe and I hereby certify that:

1. The minimum grade of concrete is M25

2.The design and analysis using the code of practice for plain and reinforced concrete as per IS 456, Design Loads as per IS-875 and Design of Earthquake resistant Structure as per IS-1893 are carried out.

The building will be safe and sound when used for the purpose for which it is designated

Date : 28.11.2024

Place : Chennai

Stamp and signature

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

Encl : Structural Design Calculation

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STRUCTURAL ENGINEER

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"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
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Mobile: 9841249815
Email: kannankds2007@gmail.com

STA -26/24-AB -26.11.2024

APPLICANT.– M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP, (Mrs.K.Premalatha, W/o. Mr.B.Karthikeyan), Of Kannankurichi Village, and Town Panchayat Salem Taluk & District.

STATEMENT ACCOMPANYING FORM A

1. **Address of the Building** : Proposed of R.C.C Roof Residential Group development Building at S.No.65/10A , Salem Steel Plant New Development Authority - Veerapandi Panchayat Union, Murungapatty Panchayat/Village, Salem West Taluk Salem District.

2.Location (Street number , ward number, Name of the place, I.e.Corporation/ Municipality / Cantonment : Murungapatty Panchayat/Village, Salem Taluk & District.

Year of construction :

Approximate cost of construction as **R.C.C Roof Building**

Block -1	: 182.62
Block-2	: 182.62
Block-3	: 182.62
Block-4	: 182.62
Block-5	: 182.62
Block-6	: 182.27
Block-7	: 182.27
Block-8	: 182.27
Block -9	: 182.27
Block-10	: 182.27
Block -11	: 182.27
Block-12	: 182.62
Block-13	: 182.62
Block -14	: 182.62
Block-15	: 182.62
Block-16	: 182.62
Block-17	: 182.62
Block-18	: 182.27
Block-19	: 182.27
Block-20	: 182.27
Block-21	: 182.27
Block-22	: 182.27

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Block-23 : 182.27
Block-24 : 182.62
Block-25 : 182.62
Block-26 : 182.62
Block-27 : 182.62
Block-28 : 182.62
Block -29 : 173.4
Block-30 : 181.39
Block-31 : 182.27
Block-32 : 182.27
Block-33 : 182.27
Block-34 : 182.27
Block-35 : 182.27
Block-36 : 188.28
Block-37 : 188.28
Block -38 : 188.28
Block-39 : 188.28
Block-40 : 323.97
Block -41 : 331.87
Block -42 : 182.27
Block-43 : 182.27
Block-44 : 182.27
Block-45 : 182.27
Block-46 :188.28
Block-47 : 188.28
Block-48 :188.28
Block-49 : 188.28
Block-50 :315.84
Block-51 : 311.08
Block-52 : 182.27
Block-53 : 182.27
Block-54 : 182.27
Block-55 : 182.27
Block -56 : 167.69
Block-57 : 171.46
Block-58 : 344.82
Block-59 : 409.87
Block-60 : 74.29
Total Area : 11790.59 *1800

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
STCP Reg. No. CGLRGN/SE/Gr.I/19/05/052
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

Rs. 2,12,23,062.00 (Approximately)

3.Purpose for which the building is being : Residential Group development Building

Used for or proposed to be used

4.Purpose for which the building has : Dwelling Unit
Hither to be used

5.Details of construction of the building : R.C.C Frame Structure
(Particulars of the foundation, soil,
Specification of the various parts under)

1. Foundation : Rcc structure with necessary columns & Beams, Foundation depth 3.00m
2. Basement : RR Masonry with Plinth Beam
3. Superstructure : Brick work in CM 1:6 and Plastering in Cement mortar 1:5

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Structural Specification

A) Framed Structure with reinforced

1)	Maximum span of the beam	:	5.81 m
2)	Maximum unsupported length of Columns	:	3.00 m
3)	Minimum size of the column	:	0.30X 0.23 m
4)	Maximum Size of the Beam	:	0.23 X0.45 m
5)	Minimum size of the beam	:	0.23X 0.38 m

B) Dead loads assumed other than self weight . (IS 875 Part-1) : Residential Group development Building

1)	For floor finishes	:	2 KN/Sq.m
2)	For Partitions	:	18.85 KN/Sq.m
3)	For terrace finish	:	2 KN/Sq.m

Design load on the structure for(IS 875 Part-2) : Residential Group development Building

1)	Live load at floor level	:	2.0KN/Sq .m
2)	Live load at roof level	:	2.0 KN/Sq.m
3)	Live load for stair, corridor and Balconies.	:	3.0 KN/Sq.m

6.Number of persons to be accommodated : 500Nos

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
STCP Reg. No. CGLRGN/SE/Gr.I/19/05/092
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

Date : 28.11.2024

Place : Chennai.

Signature of the Engineer

Signature of the Owner or Occupier of the Building

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M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP,(Mrs.K.Premalatha, W/o. Mr.B.Karthikeyan), Of Kannankurichi Village, and Town Panchayat Salem Taluk & District.

FORM B

(Form of certificate of structural under sub-section (4) of section 4 of the Tamilnadu Public Building (Licensing) Act 1965 (Tamil Nadu Act 13 of 1965) referred in rule 4 of the Tamilnadu Public Building (Licensing)rules (1966).

I certify that the Proposed Residential Group development Building Number of Scheme mentioned in the statement and Furnished below its salient Technical features.

I. FOUNDATION :

(i)	Depth Below ground level	:	1.40M (Isolated Footing)
(ii)	Nature of soil met with at foundation level	:	Red Soil with Muram Soil
(iii)	Pressure at Foundation	:	250 KN/M²
(iv)	Probable safe bearing capacity of the Strata met with at foundation	:	250 KN/M²

II. SUPER STRUCTURE :

(i) Maximum stress in the most critical section : size stone masonry with 60Kg/CM²

Of Masonry and Concrete

(ii) Nature of maximum and concrete its safe, : RCC –M 25 concrete mix

Permissible stress

This is to certify that the Submission of Residential Group development Building Number of has been Designed According to I.S.I loading standards 875 (Latest Version other relevant Indian standard codes of practice and 1 declare that the building is structurally) and sound to be used as a public building for the purpose noted in the statement .

Date : 28.11.2024
Designation: STRUCTURAL ENGINEER

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
CTCP Reg. No. CGLRGN/SE/Gr.I/19/05/092
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

Signature of the Structural Engineer

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APPLICANT.– M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP, (Mrs.K.Premalatha, W/o. Mr.B.Karthikeyan), Of Kannankurichi Village, and Town Panchayat Salem Taluk & District.

FORM C

DECLARATION

C.Kannan, Residing at Door No: 21, Plot No: 257-W Flat No: 2B, " Utopia Apartments, 2nd Floor, 4th Main RoadIndira Nagar, Chennai-20 do hereby declare that I possess qualification and experience specified in the table to rule ll of the Tamil Nadu Building (Licensing) rules 1965 , for issuing the certificate of structural of building covered by the certificate.

Station: Chennai

Signature of the Structural Engineer.

(i) Name and Address (IN BLOCK LETTERS) : **C.KANNAN,**
Door No: 21, Plot No: 257-W,
Flat No: 2B, " Utopia Apartments",
2nd Floor, 4th Main Road,
Indira Nagar, Chennai-20.

(ii) Engineering Qualification : **M.E (Structure)**
STRUCTURAL ENGINEER

(iii) Number of years of experience and nature there of : 15 More than years .

- This certificate does not holds or ensures responsibility for the building due To natural calamities Like Earth quake, Cyclone, Fire and Tsunami
- Any Subsequent additions and alterations should be made only prior information to the certifying Authority.

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
CTCP Reg. No. CGLRGN/SE/Gr.I/19/05/092
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020

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APPLICANT.- M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP,
(Mrs.K.Premalatha, W/o. Mr.B.Karthikeyan, Of Kannankurichi Village, and Town Panchayat Salem Taluk & District.

***CERTIFICATE REGARDING EFFLUENT DISCHARGE FOR THE PROPOSED CONSTRUCTION* of Residential Group development Building Reg.AT Survey no.** .No.65/10A, Salem Steel Plant New Development Authority - Veerapandi Panchayat Union, Murungapatty Panchayat/Village, Salem West Taluk Salem District.

CALCULATION OF WATER SUPPLY:

Data taken to account for the calculations are as per the Guidelines given in the manual on water supply published by ministry of works and Housing, New Delhi.

No.of floor : 60 Blocks

Population (Assumed) : 500 persons

Total requirement of water supply/Head/Day in liters as per IS 1172
For population up to 10,000 person -70lit/Head/Day

Total Requirement of water : 500 person X 70 lit = 35000 lit/gay

As per IS 1172 ,from the required water supply assumptions are as follows
: For drinking purpose
: 5lit.Head/Day
Drinking water for the total Nos. of person : 500person X 5 lit = 2500 lit/day

For cooking purpose the requirement is : 500person X 25 lit = 12500 lit/day
(incuding stream cooking) :12500 lit/day

Therefore water other than drinking & cooking purpose is :35000-15000 =20000 lit/day

As per IS 1172 , for WC flushing System, the water Consumption per day is assumed as 100 lit per person.
Therefore 200person water consumed is 500 X15 =7500 lit/day
Water taken for treatment plant = 20000-7500 = 12500 lit/day

As explained above ,12500 lit of Effluent is connected with Septic tank and treated . The treated water is allowed to the dispersion trenches provided in the site. The above water will be soaked in the earth beneath the applicant site. No quantity of water will be connected to the public drainage. Therefore no amount of sewage water will be expelled from the site.

500 lit of effluent from , Bath, washing etc., are taken to treatment plant, where it is treated and the treated water is wholly used for gardening and Air cooler plants etc.,

As per the above details, I certify that the treatment plant proposed within the site is more than sufficient for treating for treating of waste water produced. And the septic tank and the dispersion trenches provided will be sufficient for the treatment of sewage water and the soaking of the treated Effluent.

Place : Chennai
Date : 28.11.2024

STRUCTURAL ENGINEER

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
STCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road

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STA -26/24-AB -26.10.2024

SEISMIC FORCE CERTIFICATE

Whom So Ever It May Be Concern

Sub : Building safeguard form Seismic force certificate

Property: Proposed Construction of **Residential Group development Building Reg.*AT* Survey no.**.No.65/10A, Salem Steel Plant New Development Authority - Veerapandi Panchayat Union, Murungapatty Panchayat/Village, Salem West Taluk Salem District.

Applicant: M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP, (Mrs.K.Premalatha, W/o. Mr.B.Karthikeyan), Of Kannankurichi Village, and Town Panchayat Salem Taluk & District.

Report : The above said applicant is Proposed Residential Group development Building in the above said address as per the detailed plan enclosed here with. The foundation and structural design of the proposed building in enclosed and mentioned in the drawing.
Opinion : The following points are the building safe guard form the earth quake.

1. Provide necessary foundation depth (2.10 m) & foundation concrete 1:2:4
2. Provide random rubble masonry foundation
3. In the middle of the foundation provide connecting beam size 0.23 x0.45m using RCC 1:2:4 4Nos 16 tor and with 8 Tor stirrups @ 6" c/c
4. In the foundation a cross beam provide one more plinth concrete in the size of 0.46 x0.23 using 12 tor &12 tor
5. In the ground level provide one more plinth concrete in the size of 0.46x0.23
6. Provide necessary reinforcement, proportionate 1:2:4 for columns with additional steel
7. Provide all round connecting lintel beam using 12 Tor and 8 Tor stirrups
8. Provide cross beam in the RCC roof
9. Providing and using of ISI certified steel

I certify that I have verified the plan for the Proposed Construction of Residential Group development Building *AT* Survey no.No.65/10A, Salem Steel Plant New Development Authority Veerapandi Panchayat Union, Murungapatty Panchayat/Village, Salem West Taluk Salem District.**Structural design of the building is safe and sound and is verified taking into account of the building as per the Indian standard 875 and also under the GOI under disaster list Program.**

Place : Chennai
Date : 28.11.2024

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
CTCP Reg. No. CGLRGN/SE/Gr.I/19/05/092
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.
STRUCTURAL ENGINEER

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C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

Form I
STRUCTURAL DESIGN BASIS REPORT

Part 1	GENERAL DATA		
		Date	**28.11.2024**
S.No.	**Description**	**Information**	**Notes**
1	Site Address	S.No.65/10A , Salem Steel Plant New Development Authority - Veerapandi Panchayat Union, Murungapatty Panchayat/Village, Salem West Taluk Salem District.	
2	Name of owner	M/s. NAAVAL PROPERTIES AND DEVELOPERS LLP, (Mrs.K.Premalatha, W/o Mr.B.Karthikeyan)	
3	Name of Registered Developer along with the Registration Number	C.KANNAN,M.E(Structure) CGLRN/SE/Gr-I/2019/05/002	
4	Name of Registered Architect/Engineer along with the Registration Number	—	
5	Name of Registered Structural Engineer along with the Registration Number	C.Kannan,M.E(Structure)CGLRGN/SE/Gr-I/2019/05/002	

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
STCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road

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6	Use of the Building	Residential Group development Building	
7	Number of stories above Ground level	1	
8	No of basements below Ground level	0	
9	Type of Structure 1.Load bearing walls 2.R.C.C Frame 3.R.C.C Frame and Shear walls	R.C.C Frame	

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/052
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

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S.No.	Description	Information	Notes
10	Soil Data 1.Type of Soil	Type III Soils	IS:1893 Cl.6.3.5.2, IS:1904,
	2.Design safe bearing Capacity	23.5 t/m2	
11	Dead loads (unit weight adopted) 1.Earth	13.85 to 18.05KN/M2	IS:875 part I
	2.Water	9.81 KN/M2	
	3.Brick masonry	17.65 KN/M2	
	4.Plain cement concrete	24KN/M2	
	5.Reinforced cement concrete 1% of steel - 22.75 to 24.20 KN ii)2% of steel - 23.25 to 24.80 KN iii) 5% of steel - 24.80 to 26.50 KN	i) 2% of steel - 23.25 to 24.80 KN	
	6.Floor finish	2 KN/M2	
	7.other fill materials	0.15KN/M2	
12	Imposed (Live) loads		IS:875 part 2
	1.Floor Loads	2KN/M2	
	2.Roof Loads	1.5 KN/M2	
13	Cyclone/ wind loads		IS:875 part 3
	1.Speed	47 m/s	
	2.Design pressure intensity	The Building as a whole	
14	Seismic zone	II - Zone	IS:1893 (2002)
15	Importance factor	I=1.0	IS:1893 (2002) Table (6)
16	Seismic zone factor (Z)	Z=0.10 (Low Zone)	IS:1893 Table 2
17	Response reduction factor	5	IS:1893 Table 7
18	Fundamental Natural period -Approx (Ta=0.075 h0.75)	Ta = 0.47	IS:1893 Cl.7.6
19	Design Horizontal acceleration spectrum value (Ah)	Ah = 0.075	IS:1893 Cl.6.4.2
20	Expansion / Separation Joints	Every 10m expansion joints	
21	Building is regular/ irregular	Regular and Irrugular	IS:1893
	Enclose detailed drawings drawn to scale for each floor		
	Incase terrace garden is provided,indicate additional fill load and live load along with the detailed drawings drawn to scale		

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S.No.	Description	Information	Notes
Part 3	**Reinforced concrete framed buildings**		
1	Type of Building		IS:1893 Cl.7.1
	1.Regular frames	Regular frames	
	2.Regular frames with shear walls		
	3.Irregular frames		
	4.Irregular frames with shear walls		
	5.Soft storey		
2	Number of Basements	N/A	
3	Number of floors including Ground floor	2	
4	Horizontal floor system		
	1.Beams and Slabs	Beams & Slabs	
	2.Waffles		
	3.Ribbed floor		
	4.Flat slab with drops		
	5.Flat plate without drops		
5	Soil data		
	1.Type of soil	Type II Soils	
	2.Recommended type of foundation		
	Independent footings	Independent	
	Raft		
	Piles		
	3.Recommended bearing capacity of soil	25t/m2	
	4.Recommended type, length, diameter and load capacity of piles		IS:1498
	5.Depth of water table		
	6.Chemical analysis of ground water		
	7.Chemical analysis of soil		
6	Foundations		
	Depth below ground level	1.40 Mt	
	Type	Independent	
	Independent		
	Interconnected		
	Raft		
	Piles		

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S.No.	Description	Information	Notes
7	System interconnecting Foundations		IS:1893 Cl.7.12.1
	Plinth beams	Plinth Beams & Foundation Beam	
	Foundation beams		
8	Grades if concrete used in different parts of building	M25 & M30	
9	Method of Analysis used	Limit State	
10	computer sofware used	Manual	
11	Torsion Included	No	IS:1893 Cl.7.9
12	Base Shear		
	a.Based on approximate fundamental period	0.59	
	b.Based on Dynamic analysis	0.24	IS:1893 Cl.7.5.3
	c.Ratio of a/b	2.45	
13	Distribution of seismic forces along the height of Building	120 KN/M2	IS:1893 Cl.7.7 (provide sketch)
14	The column of soft ground storey specially designed	2.5 Times of Stoery Shears and moments	IS:1893 Cl.7.10
15	Clear minimum ocver provided in		
	a.Footing	50mm	
	b.Column	40mm	IS:456 cl.26.4
	c.Beams	25mm	
	d.Slabs	20mm	
	e.Walls	NA	
16	Ductile Detailing of RC Frame		
	a.Type of reinforcement used	M25 & M30 Reinforcement Used	IS:456 cl.5.6.
	b.Minimum dimension of beams	0.76	IS:13920 cl.6.1
	c.Minimum dimension of Columns	0.30 x 0.23	IS:13920 cl.7.1.2
	d.Minimum percentage of reinforcement of Beams at any corss section	2% of Steel to be Used	IS:456 cl.26.5.1.(a)
	e.Maximum percentage of reinforcement at any section of beam	5% of Steel to be Used	IS:13920 cl.6.2.1
	f.Spacing of transverse reinforcement in 2-d length of beams near the ends	0.15m C/C	IS:456 cl.26.5.1.1.(b)
	g.Ratio of capacity of beams in shear to capacity of beams in flexure	0.002 Mpa	IS:13920 cl.6.2.2
	h.Maximum percentage of reinforcement in column	2%	IS:13920 cl.6.3.5
	i.Confining stirrups near ends of columns and in Beam- column joints	0.10Mt.	IS:456 cl.26.5.3.1

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S.No.	Description	Information	Notes
	-Diameter	8mm	IS:13920 cl.7.4
	-Spacing	0.15Mt	
	j.Ratio of shear capacity of columns to maximum seismic shear in the storey	2.25KN/M2	
17	Does the features require clearance by SDRP		
	-High rise Building		
	-Prefab Building	NA	
	-Building in Hazard prone areas		
	Foundation		
	i. If Raft foundation adopted,indicate K valueused for analysis of the raft		
	ii. If Pile foundation have been used Pile type , Pile dia, Pile length, Pile Capacity.		
	iii.If high water table system of countering water pressure existing water table existing water table assumed design foundations		
	Idealization for Earthquake analysis		
	i.)Incase composite system of shear walls & rigid frames,give distribution of base shear in the two systems on the basis of analysis, and that used for design of each system		
	ii.)Indicate the idealization of frames and shear walls adopted in the analysis with the help of sketches		
	iii.) Submit framing plans of Each floor		
	iv.) Incase of Basements, indicate the system used to contain earth pressures.		

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S.No.	Description	Information	Notes
S.No.	Description	Information	Notes
Part 4	**Buildings in structural steel**		
1	Adopted method of design		
	- Simple		IS:800 Cl.3.4.4
	- Semi-rigid		IS:800 Cl.3.4.5
	- Rigid		IS:800 Cl.3.5.6
2	Design based on		
	- Elastic analysis		IS:800 section-9
	- Plastic analysis		SP:6(6)
3	Floor construction		
	- composite		
	- Non composite		
	- Boarded		
4	Roof construction		
	- composite		
	- Non composite		
	- Metal		
	- Any other		
5	Horizontal force resisting system adopted		
	- Frames		Note: seismic force as per IS:1893 would depend on system
	- Braced Frames		
	- Frames & Shear walls		
6	Slenderness ratios maintained		IS:800 Cl.3.7
7	Member deflection limited to		
	- Beams, Rafters		IS:800 Cl.3.13
	- crane girders,purlins, Top of Columns		
8	Structural members		
	- Encased in concrete		IS:800 section-10
	- Not Encased		
9	Proposed material		
	- General weld-able		IS:2062
	- High strength		IS:8500
	- Cold formed		IS:801,811
	- Tubular		IS:806

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S.No.	Description	Information	Notes
10	Minimum metal thickness specified for corrosion protection		
	- Hot rolled sections		IS:800,cl.3.8
	- cold formed sections		Cl.3.8.1 to Cl.3.8.4
	- Tubes		Cl.3.8.5
	- General weld-able		
11	Structural connections		
	- Rivets		IS:800 section-8
	- CT Bolts		IS:1929,2155,1149
	- S H F G Bolts		IS:6639,1367
	- Black Bolts		IS:3757, 4000
	- Welding fields		IS:1363, 1367
	shop (specify welding type proposed) composite		IS:816,814,1395,7280, 3613,6419,6560,813,9 595
12	Minimum Fire rating proposed,with method		
	- Rating ----/hour		IS:1641,1642,1643
	- Method proposed		
	- In tumescent painting		
	- Spraying		
	- Quilting		
	- Fire retardant boarding		
Part-5	Any special weakness in the building making it vulnerable for stability related failure and the precaution to be taken during execution/ completion and finishing to be indicated.		
Part-6	Recommendations of structural Engineer with respect to special requirements needed with respect to structural safety and stability to be taken note of by competent authority feature like incorporation of swimming pool,heavy load on roof,prefabricated structure or any other hazardous		

C. KANNAN, B.E.,M.E., (Structure)
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