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Er. & Vr. A. HARIKUMAR, M.E.(Struct.)., M.Sc.,(Rev)., AMIE., C. Eng(I)., MISTE., A.I.V., L.L.B.,
T.N. Govt. Registered Eng, Chartered Eng (I), Income Tax Department Registered Valuer

STA -12/24 –AB 21.09.2024

APPLICANT.– 1 **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

Address of the Building : Proposed of R.C.C Roof Residential and Commercial Building at Sy No.9/1B,10/2A1B,13/1A, Of Kannankurichi VillageTown Panchayat,Salem Taiuk & District.

2.**Location** (Street number , ward number, Name of the place, I.e.Corporation/ : Kannankurichi

Municipality / Cantonment : Salem Taluk & District.

Year of construction : Proposed .Approximate cost of construction as **R.C.C Roof**

Block No	Floor No	Land UDS (sq m)
1	G+1	523.3
2	G+2	543.99
3	G+1	493.86
4	G+1	509.34
5	G+1	542.1
6	G+1	579.36
7	G+1	579.36
8	G+1	618.15
9	G	313.51
10	G+1	218.89
11	G+1	218.88
12	G+1	379.34
13	G+1	323.77
14	G+1	355.47
15	G+3	1682.04
16	G+1	244.71
17	G+1	218.88
18	G+1	218.88
19	G+1	345.24
20	G+1	244.71
21	G+1	224.71
22	G+1	296.24
23	G+1	306.06

Er. A. Harikumar, M.E., (Struct), M.Sc., (Rev)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
TNHB Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109.
Mail ID : civiltec261@gmail.com, srihari.prim@gmail.com
Cell : 95243 20261, 94899 84416

Block No	Floor No	Land UDS (sqm
24	G+1	491.25
25	G+1	393.75
26	G+1	390.77
27	G+1	362.03
28	G+1	390.46
29	G+1	399.43
30	G+1	372.57
31	G+1	345.18
32	G+1	366.52
33	G+1	345.60
34	G+1	412.35
35	G+1	443.37
36	G+1	260.52
37	G+1	260.52
38	G+1	270.13
39	G+1	438.84
40	G+1	384.38
41	G+1	351.17
42	G+1	351.14
43	G+1	351.14
44	G+1	384.59
45	G+1	359.31
46	G+1	369.81
47	G+1	479.54
48	G+5	15186.02
49	G+2	1429.50
50	G+1	129.18

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Name of Profession	R.E	R.S.E	G.E	S.O.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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Total **35659.89 Sq.m**

Approximate Cost : 35659.89 x 1800
Rs. 64187802.00 (Approximately)

1. Purpose for which the building is being Used for or proposed to be used : Residential & Commercial building
2. Purpose for which the building has Hither to be used : Dwelling Unit
3. Details of construction of the building (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
   4. Floor and Roof : Tiles Flooring & R.C.C Roof

4. Structural Specification

A) Framed Structure with reinforced

1) Maximum span of the beam : 5.81 m
2) Maximum unsupported length of Columns : 19.18 m
3) Minimum size of the column : 0.76X 0.45 m
4) Maximum Size of the Beam : 0.23 X0.60 m
5) Minimum size of the beam : 0.23X 0.46 m

B) Dead loads assumed other than self weight . (IS 875 Part-1) **Residential and Commercial Building**

Building

1) For floor finishes : 26.70 KN/Sq.m
2) For Partitions : 18.85 KN/Sq.m
3) For terrace finish : 20.40 KN/Sq.m

C) Design load on the structure for(IS 875 Part-2) **Residential Building**

1) Live load at floor level : 5.0KN/Sq .m
2) Live load at roof level : 4.0 KN/Sq.m
3) Live load for stair, corridor and Balconies. : 5.0 KN/Sq.m

9.Number of persons to be accommodated : 500 Nos

Date : 21.09.2024

Place : Salem

Signature of the Owner or Occupier of the Building

Signature of the Chartered Engineer

Er. A. Harikumar, M.E., (Struct), M.Sc., (Rev)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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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 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 and Commercial Building Scheme mentioned in the statement and Furnished below its salient Technical features.

I. FOUNDATION :

(i)	Depth Below ground level	:	1.80M (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

IISUPER 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 20 concrete mix
Permissible stress

This is to certify that the Submission of Revised Approval and Additional Construction of Residential Apartment & Commercial Building 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 : 21.09.2024
Designation : CHARTERED ENGINEER

Chartered Engineer
Reg.No. LM - 25274
W Tax. 04/21
Approved Valuer, India

Er. A. Harikumar, M.E., (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I			II	
Reg.No.s	21/2024	11/2022	04/2019	02/2019	15/2022

Signature of the Chartered Engineer

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
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Cell 95243 20261, 94899 84416

STATEMENTTO ACCOMPANY THE CERTIFICATE OF STRUCTURE SOUNDNESS

5. Location of the building (Door numb	: Proposed of Construction of Residential & Commercial Building at Sy No., 9/1B, 10/2A1B, 13/1A, Of Kannankurichi Village and Town Panchayat, Salem Taluk And District.
1. Age of the Building	: Residential Apartment & Commercial Building
Number of Stories	: 50 BLOCKS
3.Short description of structures Steel ,I Section,	: 25mmØ, 20mmØ,16mmØ,12mmØ & 10mmØ short span 2.50m&Framed or load bearing Masonry 3.05 m RCC frames Structure with necessary columns & Beams,RR masonry,Brick work and Plastering in cementMortar tiles Flooring & R.C.C Roofing
2. Purpose for which the building is certificate	: Residential & Commercial Purpose
4. The period for which the building will be years	: If Constructed –Based on the Specification Structurally sound more than 60
5.Number of persons to be accommodated	: 500Nos.
6.Remarks	: Nil

Date : 21.09.2024
Registration No :AM 159779-8 ,LM 106081
Class : I
Address :# 6G,1st Floor,
Tank Street, Hosur,
Hosur-635109

Chartered Engineer
Reg.No. LM - 25274
W Tax. 04/21
Approved Valuer, India

Er. A. Harikumar, M.E., (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I		II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

Signature of the Engineer

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
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Mail ID : civiltec261@gmail.com, srihari.prm@gmail.com
Cell 95243 20261, 94899 84416

STA -12/24 –AB 21.09.2024

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.

FORM C
DECLARATION

A.Harikumar, S/o. Arichandran, Residing at #6G, 1st Floor, Near Surya Hospital, Tank Street, Hosur.-635109, Krishnagiri district, do hereby declare that I posses 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.

Dr. A. Harikumar, M.E., (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
Structural Engr. Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

Name of Profession	R.E	R.S.E	C.E	B.O.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

Signature of the Certifying Engineer.

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
TNHB Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109.
Mail ID : civiltec261@gmail.com, srihari.prim@gmail.com
Cell 95243 20261, 94899 84416

Station :Salem

(i) Name and Address (IN BLOCK LETTERS) : **A.HARIKUMAR,**
#6G, 1ST Floor, Near Surya Hospital,
Tank Street,
Hosur -635109

(ii) EngineeingQualification : **M.E (Struct)., AMIE.,A.I.V., LM.I.S.T.E, Chartered Engineer / Civil Engineer, Licensed Building Surveyor**

(iii) **Panel Engineer for :**
a. HDFC – Housing Development Finance Corporation Ltd.
b. REPCO Home Finance Ltd.
c. Shriram city union Finance Pvt.Ltd
d. Shriram chit's Tamilnadu Pvt.Ltd

Number of years of experience and nature there of : More than 6 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.

Chartered Engineer
Reg.No. LM - 25274
W Tax. 04/21
Approved Valuer, India

STA -12/24 –AB 21.09.2024

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.

CERTIFICATE REGARDING EFFLUENT DISCHARGE FOR THE PROPOSED CONSTRUCTION of Revised Approval and Additional Construction of Residential Apartment & Commercial Building Reg.***AT*** **Survey no. 9/1B, 10/ 2A1B & 13/ 1A, Kannankurichi Village, and Town Panchayat ,Salem 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 : 50 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 : Salem
Date : 21.09.2024

Chartered Engineer
Reg.No. LM - 25274
W Tax. 04/21
Approved Valuer, India

Er. A. Harikumar, M.E., (Struct), M.Sc., (Rev)., AM/E., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN Govt Approved Professional Engineer (TNRERA)
CHARTERED ENGINEER

Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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STA -12/24 –AB 21.09.2024

WHOM SO EVER IT MAYBE CONCERN

Sub : Building safeguard form Seismic force certificate

Property: Proposed Construction of Revised Approval and Additional Construction of Residential Apartment & Commercial Building Survey no. 9/1B, 10/2A1B & 13/1A, Kannankurichi Village,Town Panchayat ,Salem 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 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 0.46 x0.76m using RCC 1:2:4 4Nos 32 tor and with 25 Tor stirrups @ 5" c/c
4. In the foundation a cross beam provide one more plinth concrete in the size of 0.46 x0.23 x0.76m using 20 tor &16 tor
5. In the ground level provide one more plinth concrete in the size of 0.46x0.30x0.76m
6. Provide necessary reinforcement, proportionate 1:2:4 for columns with additional steel
7. Provide all round connecting lintel beam using 25 Tor and 10 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 Revised Approval and Additional Construction of Residential Apartment & Commercial Building Sy No.10/2A1B, 9/1B,13/1A, Of Kannankurichi Village and Town Panchayat , Salem Taluk & 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 : Salem
Date : 21.09.2024

Chartered Engineer
Reg.No. LM - 25274
W Tax. 04/21
Approved Valuer, India

Ex. A. Harikumar, M.E., (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Engg (I), Approved Valuer
TN. Govt. Registered Professional of DTCP/HMDA)

Name of Profession	R.E	R.S.E	C.E	B.O.A	R.D
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Er. & Vr. A. HARIKUMAR, M.E.(Struct.)., M.Sc.,(Rev)., AMIE., C. Eng(I)., MISTE., A.I.V., L.L.B.,
T.N. Govt. Registered Eng, Chartered Eng (I), Income Tax Department Registered Valuer

Form I
STRUCTURAL DESIGN BASIS REPORT

Part 1	GENERAL DATA		
		Date	05.06.2024
S.No.	Description	Information	Notes
1	Site Address	SF.No: 9/1B,10/2A1B, 13/1A Of Kannankurichi Village, and Town Panchayat Salem Taluk & 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	Engineer Er.A.Harikumar-GR-I-21/2024	
4	Name of Registered Architect/Engineer along with the Registration Number	—	
5	Name of Registered Structural Engineer along with the Registration Number	Er.A.Harikumar-GR-I-SE-11/2022	
6	Use of the Building	Residential Building & Commercial	
7	Number of stories above Ground level	5	
8	No of basements below Ground level	1	
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	
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	

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Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
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S.No.	Description	Information	Notes
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 i) 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	2% of steel - 23.25 to 24.80 KN	
	6.Floor finish	0.19 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	1.05 km/hr	
	2.Design pressure intensity	The Building as a whole	
14	Seismic zone	II - Zone	IS:1893 (2002)
15	Importance factor	I=1.5	IS:1893 (2002) Table (6)
16	Seismic zone factor (Z)	Z=0.10 (Low Zone)	IS:1893 Table 2
17	Response reduction factor	2.5	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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Cell 95243 20261, 94899 84416

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	5	
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 III 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	0.88 Mt	
	Type	Independent	
	Independent		
	Interconnected		
	Raft		
	Piles		

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Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
TNHB Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109,
Mail ID : civiltec25[illegible]@gmail.com

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	M20 & 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	0.10M1	IS:456 cl.26.5.3.1

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Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
TNHB Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109.
Mail ID : civiltec261@gmail.com, srihari.prim@gmail.com
Cell : 95243 30261, 94899 84416

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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Name of Profession	R.E	R.S.E	C.E	B.G.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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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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Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

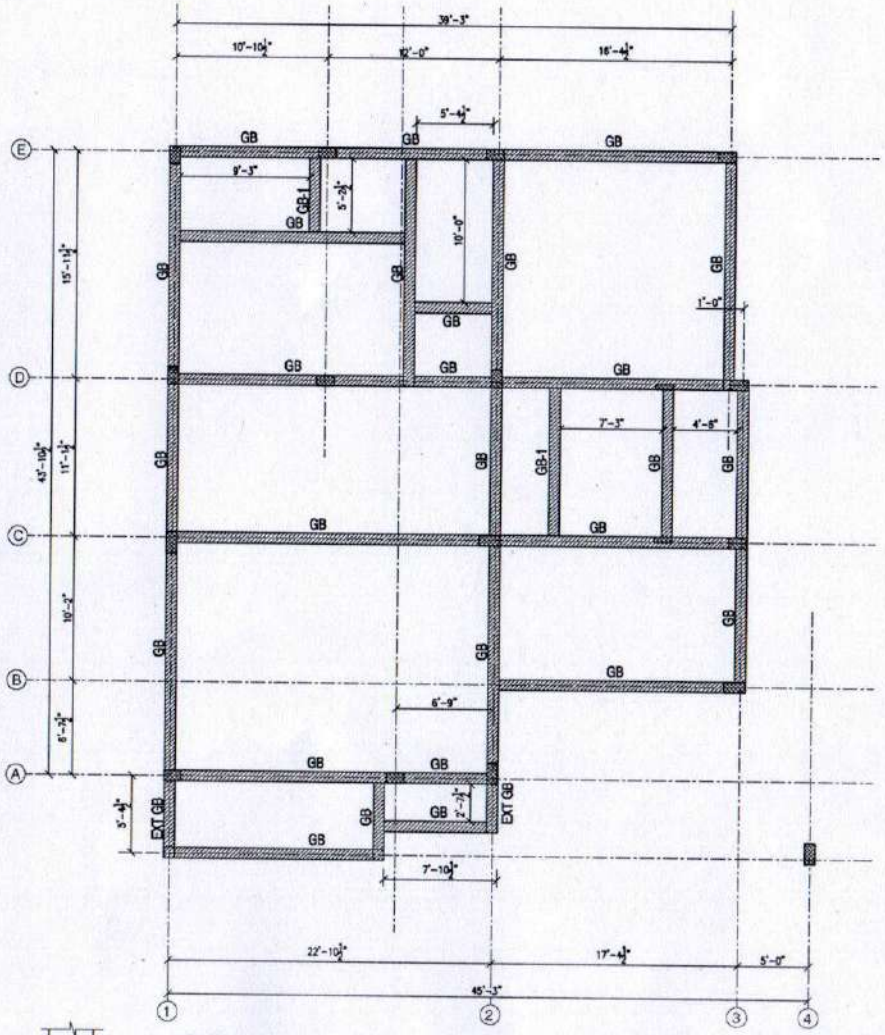
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S.No.	Description	Information	Notes
10	Minimum metal thickness specified for corrosion protection		
	- Hot rolled sections		IS:800,cl.3.8
	- cold formed sections		Cl.3.8.1 to Cl.3.8.4
	- Tubes		Cl.3.8.5
	- General weld-able		
11	Structural connections		
	- 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 features		

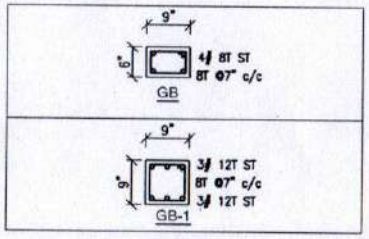
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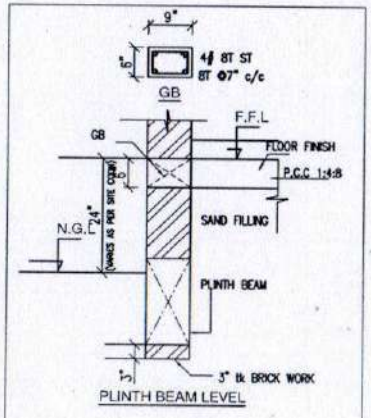
Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
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Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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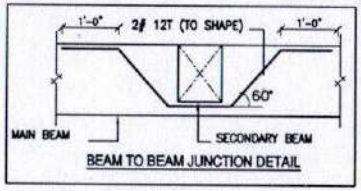


TYPICAL SECTION OF BEAM





PLINTH BEAM LEVEL



BEAM TO BEAM JUNCTION DETAIL

NORTH

DESIGN CRITERIA

1. BUILDING DESIGNED FOR GROUND FLOOR + 1 FLOOR
2. SBC OF SOIL ADOPTED 280 KN/SQ.M @ 2.6M FROM EGL

NOTES FOR EXECUTION

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. USE M20 GRADE OF CONCRETE CONFIRMING TO I.S.456-2000 UNLESS OTHERWISE SPECIFIED.
3. T DENOTES DIA OF TOR STEEL & GRADE OF STEEL - FE 500
4. CLEAR COVER TO MAIN REINFORCEMENT IN MM RAFT-75 MM FOR BOTTOM,75 MM FOR SIDE, 50 FOR TOP 40 MM FOR COLUMN, 25 MM FOR BEAMS & 20 MM FOR SLAB
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6. PROVIDE SPACER BAR IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/C INTERVAL.
5. NOT MORE THAN 40% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.

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REVISIONS

REV	DATE	DESCRIPTION
R4		
R3		
R2		
R1		

PROJECT

RESIDENTIAL BUILDING
M/S. NAVAL PROPERTIES @ SALEM
SITE NO. 50

DRAWING TITLE

MAIN BUILDING

GRADE BEAM LAYOUT & DETAILS

ISSUED FOR

TENDER		APPROVAL		STUDY		EXECUTION	✓
JOB NO		21-GH-10		DRG NO		SD-04	
DATE		26-05-2022					
DRAWN BY		R.SOUNDARAM		SCALE		1"=8'0"	

ARCHITECTURAL CONSULTANTS

IDEA SPACE
No : 63/2, Alwin Nagar, Saravanampatti By Pass Road, Ramanathapuram, Coimbatore - 45
Mobile : 9944474804

STRUCTURAL CONSULTANTS

D BASE CONSULTANTS
STRUCTURAL ENGINEERS & PLANNERS
D BASE

SHEET SIZE-A3

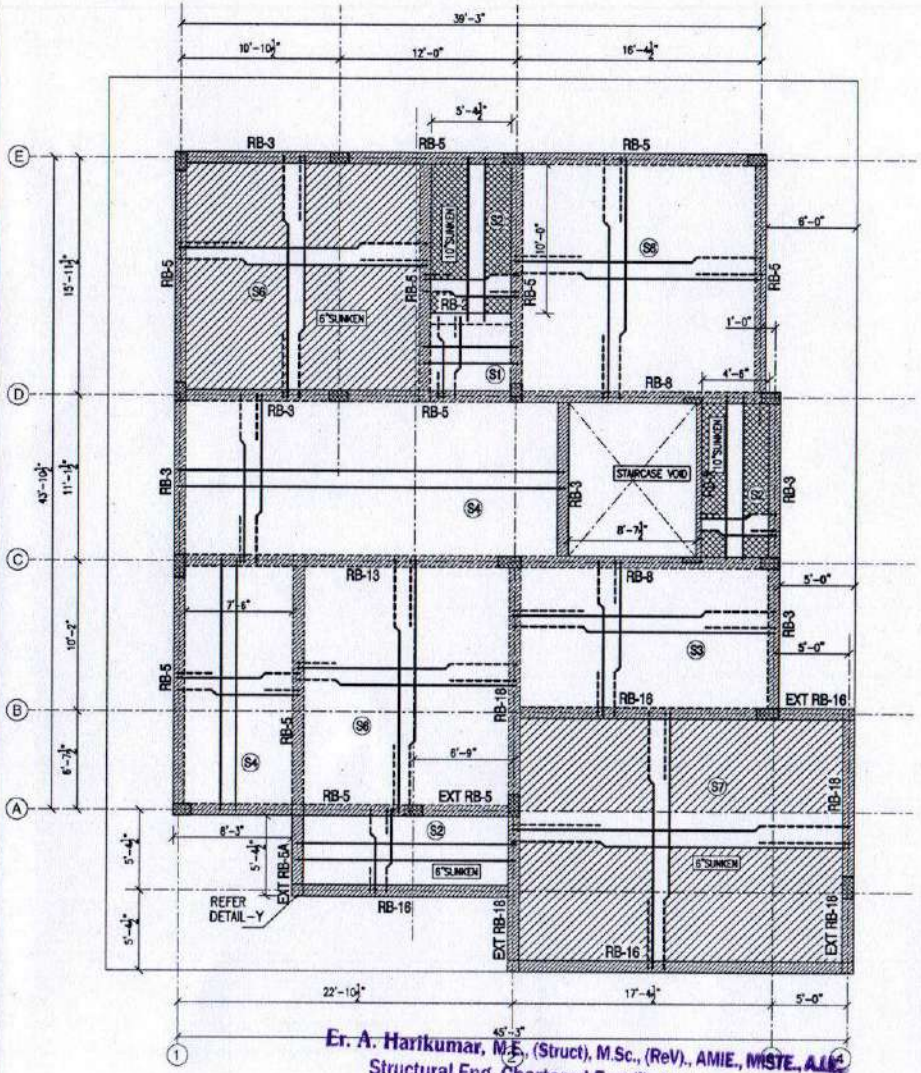
Dr. A. Harikumar, M.E. (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
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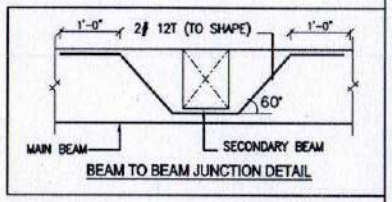
REVISION :

Name of Profession	R.E	R.S.E	C.E	S.O.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

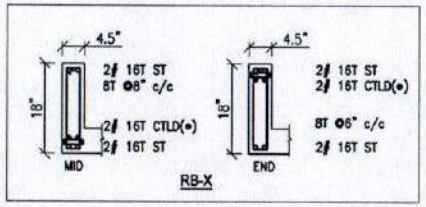
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Kindly follow this drawing

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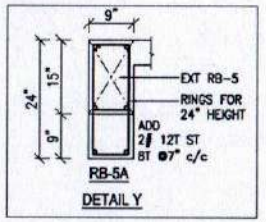




BEAM TO BEAM JUNCTION DETAIL



RB-X



RB-5A

DETAIL Y

SLAB NO	SLAB TK(INCH)	SLAB TYPE	REINFORCEMENT		GRADE OF CONCRETE
			SHORTER DIRECTION	LONGER DIRECTION	
S1	5"	ONE WAY	8T @ 6" C/C CRANKED	8T AT 8" C/C DISTRIBUTOR	M20
S2	5"	ONE WAY	10T @ 7" C/C CRANKED	8T AT 8" C/C DISTRIBUTOR	M20
S3	5"	TWO WAY	10T @ 7" C/C CRANKED	10T AT 7" C/C CRANKED	M20
S4	5"	ONE WAY	10T @ 7" C/C CRANKED	8T AT 7" C/C DISTRIBUTOR	M20
S6	6"	TWO WAY	10T @ 7" C/C TOP&BOTTOM STRAIGHT	10T @ 7" C/C TOP&BOTTOM STRAIGHT	M20
S6	5"	TWO WAY	10T @ 6" C/C CRANKED	10T AT 6" C/C CRANKED	M20
S7	6"	TWO WAY	10T @ 5" C/C CRANKED	10T AT 6" C/C CRANKED	M20
S8	6"	TWO WAY	12T @ 6" C/C CRANKED	10T AT 6" C/C CRANKED	M20
S9	5"	TWO WAY	10T @ 6" C/C CRANKED	10T AT 7" C/C CRANKED	M20

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Name of Profession	R.E	R.S.E	C.E	B.O.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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Cell 95243 20261, 94899 84416

NORTH

DESIGN CRITERIA
1. BUILDING DESIGNED FOR GROUND FLOOR + 1 FLOOR
2. SBC OF SOIL ADOPTED 280 KN/SQ.M @ 2.6M FROM EGL

NOTES FOR EXECUTION
1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. USE M20 GRADE OF CONCRETE CONFIRMING TO I.S.456-2000 UNLESS OTHERWISE SPECIFIED.
3. T DENOTES DIA OF TOR STEEL & GRADE OF STEEL - FE 500
4. CLEAR COVER TO MAIN REINFORCEMENT IN MM RAFT-75 MM FOR BOTTOM,75 MM FOR SIDE, 50 FOR TOP 40 MM FOR COLUMN, 25 MM FOR BEAMS & 20 MM FOR SLAB
5. LAP LENGTH SHALL BE 50 D (MAX. DIA) FOR ALL BARS.
6. PROVIDE SPACER BAR IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/C INTERVAL.
5. NOT MORE THAN 40% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.

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REVISIONS

REV	DATE	DESCRITION
R4		
R3		
R2		
R1		

PROJECT
RESIDENTIAL BUILDING
M/S. NAVAL PROPERTIES @ SALEM
SITE NO. 50

DRAWING TITLE
MAIN BUILDING
GROUND FLOOR ROOF BEAM & SLAB LAYOUT DETAILS

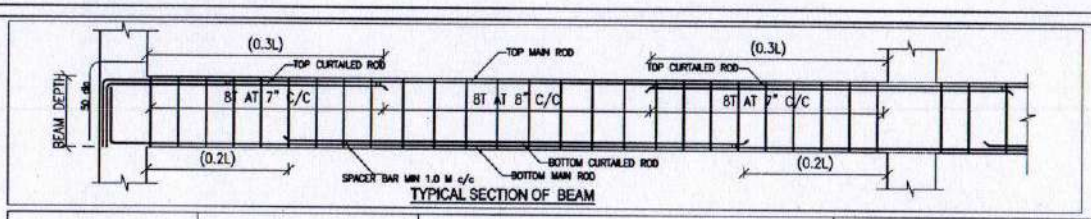
ISSUED FOR: TENDER | APPROVAL | STUDY | EXECUTION ✓

JOB NO	21-GH-10	DRG NO	SD-05
DATE	26-05-2022		
DRAWN BY	R.SOUNDARAM	SCALE	1"=8'0"

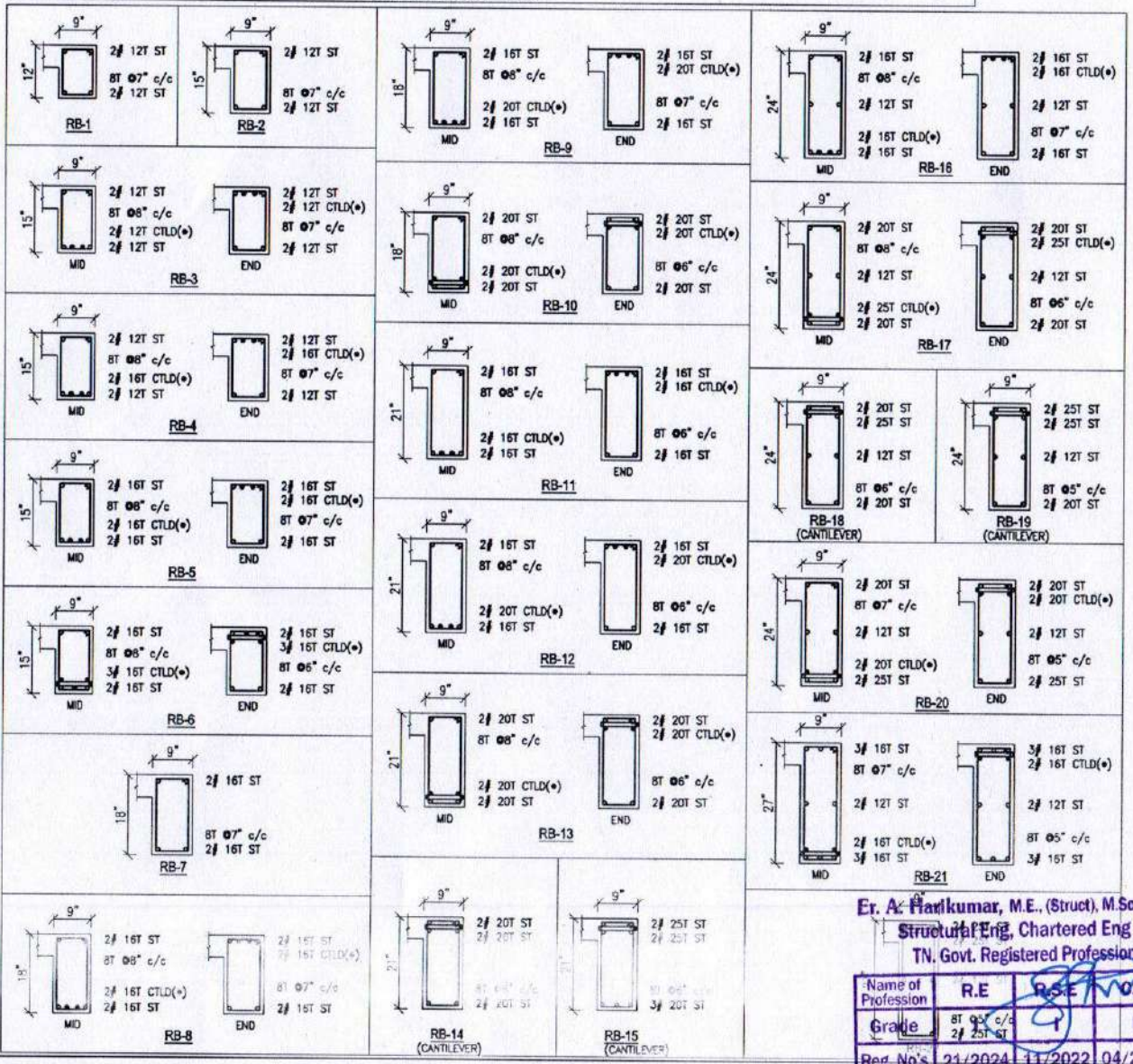
ARCHITECTURAL CONSULTANTS:
IDEA SPACE
No. 63/2, Alwin Nagar, Sungam ByPass Road, Ramanathapuram, Coimbatore - 45. Mobile : 9944474804

STRUCTURAL CONSULTANTS
D BASE CONSULTANTS
STRUCTURAL ENGINEERS & PLANNERS

SHEET SIZE-A3



TYPICAL SECTION OF BEAM



DESIGN CRITERIA	1. BUILDING DESIGNED FOR GROUND FLOOR + 1 FLOOR 2. SBC OF SOIL ADOPTED 280 KN/SQ.M @ 2.6M FROM EGL
NOTES FOR EXECUTION	1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS. 2. USE M20 GRADE OF CONCRETE CONFIRMING TO I.S.456-2000 UNLESS OTHERWISE SPECIFIED. 3. T DENOTES DIA OF TOR STEEL & GRADE OF STEEL – FE 500 4. CLEAR COVER TO MAIN REINFORCEMENT IN MM RAFT–75 MM FOR BOTTOM,75 MM FOR SIDE, 50 FOR TOP 40 MM FOR COLUMN, 25 MM FOR BEAMS & 20 MM FOR SLAB 5. LAP LENGTH SHALL BE 50 D (MAX. DIA) FOR ALL BARS. 6. PROVIDE SPACER BAR IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/C INTERVAL. 5. NOT MORE THAN 40% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
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NORTH

REVISIONS

REV	DATE	DESCRIPTION
R4		
R3		
R2		
R1		

PROJECT: RESIDENTIAL BUILDING
M/S. NAVAL PROPERTIES @ SALEM
SITE NO. 50

DRAWING TITLE: MAIN BUILDING
GROUND & FIRST FLOOR
ROOF BEAM SECTION DETAILS

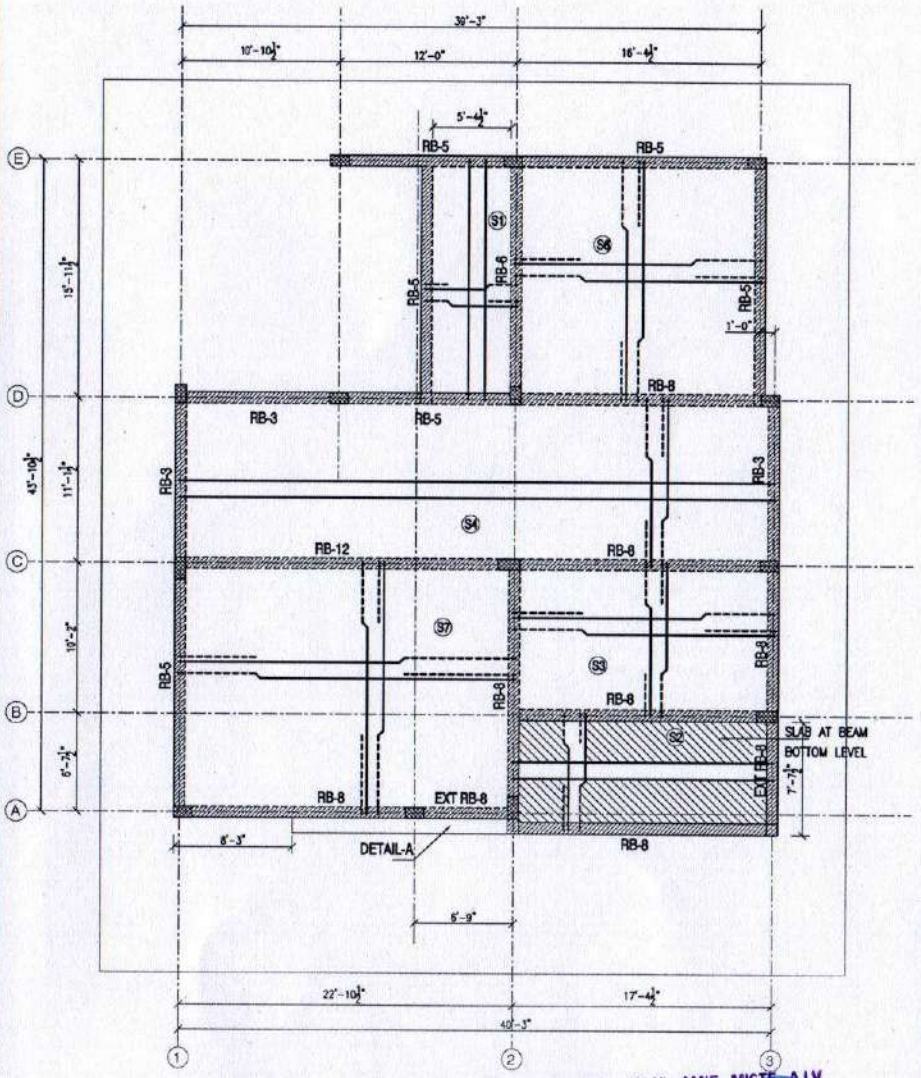
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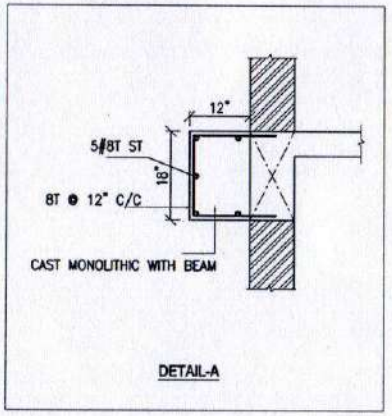
JOB NO	21-GH-10	DRG NO	SD-06
DATE	26-05-2022		
DRAWN BY	R.SOUNDARAM	SCALE	1"=8'0"

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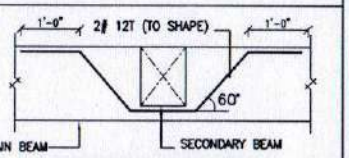
Name of Profession	R.E	R.E	C.E	B.O.A	R.D
Grade	8T @5" c/c 2# 25T ST	I	I	II	SPACE
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

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DETAIL-A



BEAM TO BEAM JUNCTION DETAIL

SLAB NO	SLAB TK(INCH)	SLAB TYPE	REINFORCEMENT		GRADE OF CONCRETE
			SHORTER DIRECTION	LONGER DIRECTION	
S1	5"	ONE WAY	8T @ 6" C/C CRANKED	8T AT 8" C/C DISTRIBUTOR	M20
S2	5"	ONE WAY	10T @ 7" C/C CRANKED	8T AT 8" C/C DISTRIBUTOR	M20
S3	5"	TWO WAY	10T @ 7" C/C CRANKED	10T AT 7" C/C CRANKED	M20
S4	5"	ONE WAY	10T @ 7" C/C CRANKED	8T AT 7" C/C DISTRIBUTOR	M20
S5	6"	TWO WAY	10T @ 7" C/C TOP&BOTTOM STRAIGHT	10T @ 7" C/C TOP&BOTTOM STRAIGHT	M20
S6	5"	TWO WAY	10T @ 6" C/C CRANKED	10T AT 6" C/C CRANKED	M20
S7	6"	TWO WAY	10T @ 5" C/C CRANKED	10T AT 5" C/C CRANKED	M20
S8	6"	TWO WAY	12T @ 6" C/C CRANKED	10T AT 6" C/C CRANKED	M20
S9	5"	TWO WAY	10T @ 6" C/C CRANKED	10T AT 7" C/C CRANKED	M20

NORTH

S
E W
N

DESIGN CRITERIA

1. BUILDING DESIGNED FOR GROUND FLOOR + 1 FLOOR
2. SBC OF SOIL ADOPTED 280 KN/SQ.M @ 2.6M FROM EGL

NOTES FOR EXECUTION

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2. USE M20 GRADE OF CONCRETE CONFIRMING TO I.S.456-2000 UNLESS OTHERWISE SPECIFIED.
3. T DENOTES DIA OF TOR STEEL & GRADE OF STEEL - FE 500
4. CLEAR COVER TO MAIN REINFORCEMENT IN MM RAFT-75 MM FOR BOTTOM,75 MM FOR SIDE, 50 FOR TOP 40 MM FOR COLUMN, 25 MM FOR BEAMS & 20 MM FOR SLAB
5. LAP LENGTH SHALL BE 50 D (MAX. DIA) FOR ALL BARS.
6. PROVIDE SPACER BAR IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/C INTERVAL.
5. NOT MORE THAN 40% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.

NOTES(GENERAL)

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3. ANY MODIFICATION IN THE STRUCTURAL ARRANGEMENT SHOULD INTIMATED BEFORE EXECUTION
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REVISIONS

REV	DATE	DESCRIPTION
R4		
R3		
R2		
R1		

PROJECT

RESIDENTIAL BUILDING
M/S. NAVAL PROPERTIES @ SALEM
SITE NO. 50

DRAWING TITLE

MAIN BUILDING

FIRST FLOOR ROOF BEAM & SLAB LAYOUT DETAILS

ISSUED FOR

TENDER		APPROVAL		STUDY		EXECUTION	✓
JOB NO	21-GH-10			DRG NO	SD-07		
DATE	26-05-2022						
DRAWN BY	R.SOUNDARAM			SCALE	1"=8'0"		

ARCHITECTURAL CONSULTANTS

IDEA SPACE

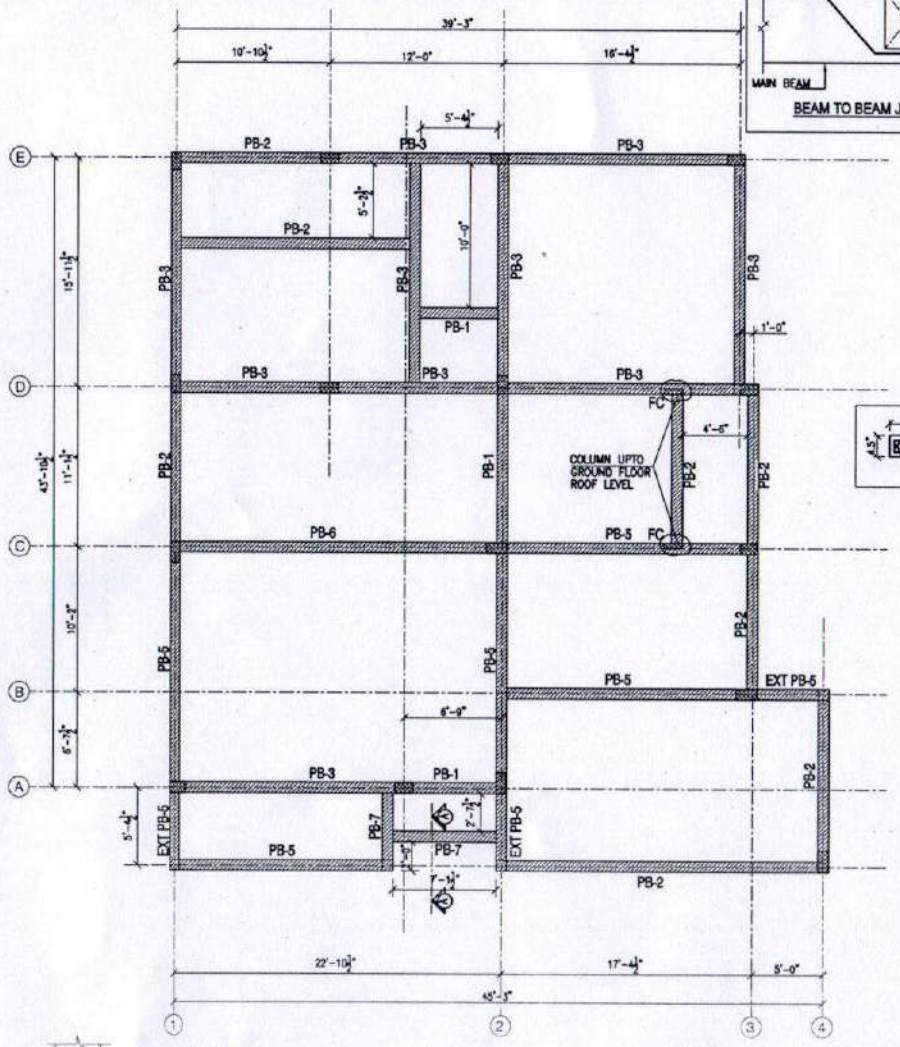
STRUCTURAL CONSULTANTS

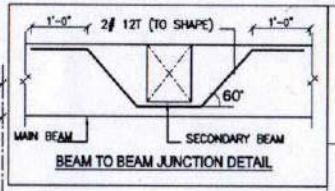
BASE

Er. A. Harikumar, M.E., (Struct), M.Sc., (Rev)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (RHTDA)

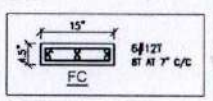
Name of Profession	R.E	R.S.E	C.E	B.Q.A	R.D
Grade	I	I	I	II	
Reg. No's	21/2024	11/2022	04/2019	02/2019	15/2022

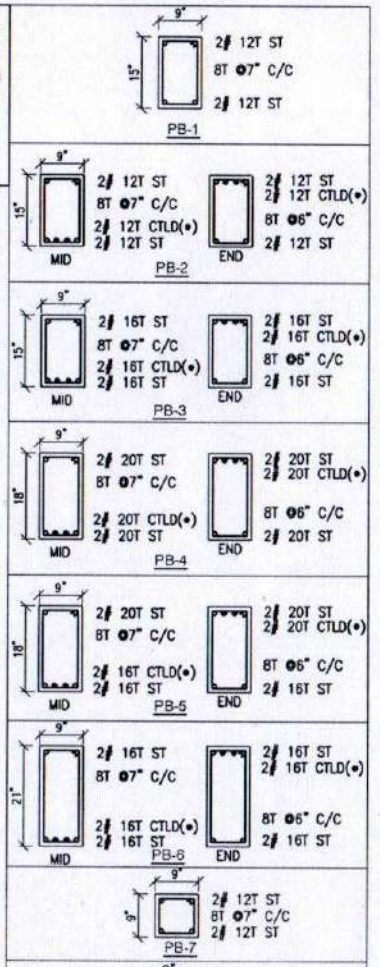
CIVIL TEC, Door No. 2A, 1st Floor, Bagalur HUDCO Road,
TNHB Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109.
Mail ID : civiltec261@gmail.com, srihari.prm@gmail.com
Cell 95243 20261, 94899 84416

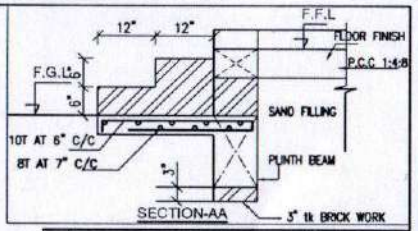


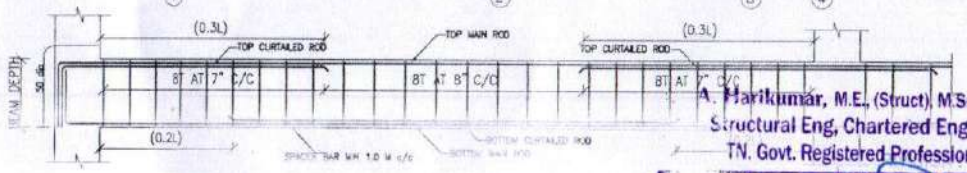


BEAM TO BEAM JUNCTION DETAIL









TYPICAL SECTION OF BEAM

NORTH



DESIGN CRITERIA

1. BUILDING DESIGNED FOR GROUND FLOOR + 1 FLOOR
2. SBC OF SOIL ADOPTED 280 KN/SQ.M @ 2.6M FROM EGL

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REVISIONS

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R3		
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R1		

PROJECT

RESIDENTIAL BUILDING
M/S. NAVAL PROPERTIES @ SALEM
SITE NO. 50

DRAWING TITLE

MAIN BUILDING

PLINTH BEAM LAYOUT & DETAILS

ISSUED FOR

TENDER		APPROVAL		STUDY		EXECUTION	✓
JOB NO		21-GH-10		DRG NO		SD-03	
DATE		26-05-2022					
DRAWN BY		R.SOUNDARAM		SCALE		1"=8'0"	

ARCHITECTURAL CONSULTANTS

IDEA SPACE

STRUCTURAL CONSULTANTS

A. Harikumar, M.E., (Struct), M.Sc., (ReV)., AMIE., MISTE., A.I.V.,
Structural Eng, Chartered Eng (I), Approved Valuer
TN. Govt. Registered Professional of DTCP (HNTDA)

	R.E	R.S.E	C.E	B.O.A	R.D
	I	I	I	II	
	21/2024	11/2022	04/2019	02/2019	15/2022

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TN ... Phase III, Near TNHB Office, Bagalur Road, Hosur - 635 109.
Mail ID civiltec261@gmail.com, srihari.prm@gmail.com
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NRI & Investment Services

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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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We're honored to be part of your real estate journey

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