

SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

PROFESSIONAL TRAINING REPORT FORMAT GUIDELINES

Sequence of the **A3 Formats** to be bounded in the Practical Training Report

Title Page –	Refer Annexure - I
Bonafide Certificate –	Refer Annexure - II
Declaration –	Refer Annexure – III
Acknowledgements – Order of names to be acknowledged -	Refer Annexure – IV
Confirmation letter	Annexure – V
Joining Letter	Annexure – VI
Monthly Report (Xerox copy of 2 months in one A3 sheet)	Annexure – VII
Work diary	Refer Annexure – VIII
Consolidated Certificate (Experience)	Annexure – IX
Table of Contents with page numbers	Refer Annexure – X

Note: Bring the original copy of the following

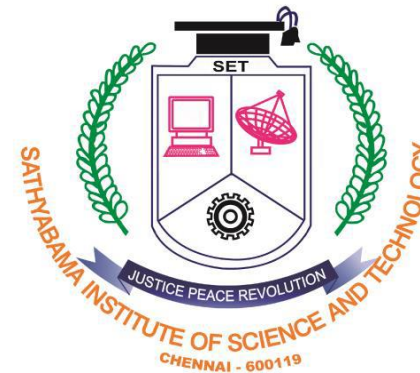
- **Letter of consent to appoint you as a trainee from the HOD to the firm**
- **Confirmation letter, Joining Letter, Monthly Report, Consolidated Certificate**

PROFESSIONAL TRAINING REPORT

Submitted in partial fulfillment of the requirements for the award of
Master of Architecture degree in Sustainable Architecture

By

DEEPIKA.S



SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE

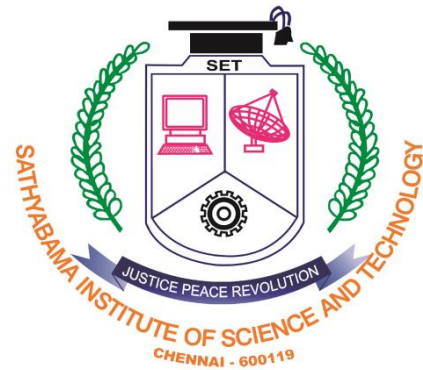
SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with Grade "A" by NAAC

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119

JUNE 2019



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

(Est U/s(3) of UGC Act,1956) Accredited with Grade "A" by NAAC (A Christian Minority Institution)

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHEMMENCHERY, CHENNAI – 600119. TAMILNADU.

PHONE: 2450 1443/9941912481 INTERNET: www.sathyabama.ac.in

E-mail: archhod@sathyabama.ac.in



**SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
M. Arch (Building management)**

**PROFESSIONAL TRAINING (S84 INT)
DEC 2020 - JAN 2021**

Name of the Student : Deepika.S

Semester : III

Reg No. : 39840006

Batch : 2019-2021



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

M. Arch (Building management)

VIVA-VOCE EXAMINATION

This is to certify that the Professional Training (S84 INT) is the work of DEEPIKA.S (39840006) who had undergone training in SKCL Company and has been monitored by the continuous assessment during **Dec 2020 to Jan 2021.**

A handwritten signature in blue ink, appearing to read 'Devyani', is written over a light blue circular stamp.

Dr.Devyani Gangopadhyay
HOD AND DEAN

Submitted for Viva voce Examination held on 30.01.2021

Internal Examiner

External Examiner



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E-mail: archhod@sathyabama.ac.in



DECLARATION

I DEEPIKA.S (39840006) hereby declare that the Professional Training Report from 14th December, 2020 to 22nd January, 2021 done by me under the guidance of Project Manager Mr.SHABEER KHAN S is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 22.1.2021

PLACE : CHENNAI

For SRI KAUSALYA CONSTRUCTIONS LTD.

Authorised Signatory



SIGNATURE OF CANDIDATE

(Annexure –IV)

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr.Devyani Gangopadhyay Dean, School of building and Environment** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to **Ar./PM SHABEER** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Training.

I would also like to express my sincere thanks to Ar. Sukirtha Suresh (Internal Co-Ordinator) for her valuable guidance, during the entire Professional Training period.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department of Architecture who were helpful in many ways for the completion of the project.

Also thank Architect/Project Management Firm - **SKCL Central Square-1, C-30, Guindy Industrial Estate, SIDCO Industrial Estate, Guindy, Chennai, Tamil Nadu 600032.**

JOINING LETTER

(Annexure –VI)



SKCL

, we build your ideas ,

To:

The Head of the Department,
Sathyabama Institute of Science and Technology ,
Rajiv Gandhi Salai, Jeppiar Nagar,
Chennai – 600119.

Sub: Confirmation letter for the practical training from our office for **Ms.Deepika.S**
Reg: 39840006

Respected Sir,

With respect to the above subject we would like to induct **Ms.Deepika.S** (REG No. **39840006**) M.Arch in Building Management, (Sathyabama Institute of Science and Technology) as a Project Management trainee for a period of 30 days from December 14th 2020 to January 22nd 2021.

Thanking you,

For SKCL

Authorized Signatory



Place: Chennai

Date: 23.01.2021

SRI KAUSALYA CONSTRUCTIONS LIMITED

PROPERTY DEVELOPERS

Off : No.4, Jayalakshmiapuram, First Street, Nungambakkam, Chennai - 600 034, India.
Ph : 4211 3810 / 4211 3820 Fax : 0091-44-2821 2494, Web : www.skcl.co.in Email : marketing@skcl.co.in
CIN : U45202TN2003PLCO51732

MONTHLY REPORT

(Annexure –VII)



SATHYABAMA

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(Est U/s(3) of UGC Act,1956) Accredited with Grade "A" by NAAC (A Christian Minority Institution)

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PHONE: 2450 1443/9941912481 INTERNET: www.sathyabama.ac.in

E-mail: archhod@sathyabama.ac.in



DEPARTMENT OF ARCHITECTURE

M. Arch (Building management)

Continuous Assessment Report for Professional training

(Continuous progress report of the trainee architect/Project Manager for the period of 15 working days in the office to be submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : Sri Kausalya Constructions Limited
Plot No.B 16 & B 17, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
2. Address & Contact Number
3. Name of the student : Deepika.S
4. Duration : From 14.12.2020 To 31.12.2020
5. Total No. of days : 15 days
6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month; which will be converted to the allotted 40 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	Excellent				
Skillsets related to project management	Excellent				
Design Management	Excellent				
Understanding the Triple Constraint		Good			
Observation during Site Visits		Good			
Understanding of construction details	Excellent				
Understanding of Construction sequences		Good			
Site Supervision / Discussion with clients	Excellent				
Adherence to Time schedule		Good			
Quantitative aptitude		Good			
Documentation skills	Excellent				
Coordination with other consultants	Excellent				

Overall Grading*

A

(A – 8.0, B – 7.0, C – 6.0, D – 5.5, E – 5.0, F – <5)

7. Any other Remarks :-----

8. Signature of the Head of the Office / Organization (With Seal)

[Signature]

Authorised Signatory



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M. Arch (Building management)

Continuous Assessment Report for Professional training

(Continuous progress report of the trainee architect/Project Manager for the period of 15 working days in the office to be submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : Sri Kausalya Constructions Limited
Plot No.B 16 & B 17, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
2. Address & Contact Number
3. Name of the student : Deepika.S
4. Duration : From 02.01.2021 To 22.01.2021
5. Total No. of days : 15 days
6. Evaluation of Performance criteria shall be on

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month; which will be converted to the allotted 40 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	Excellent				
Skillsets related to project management	Excellent				
Design Management	Excellent				
Understanding the Triple Constraints		Good			
Observation during Site Visits		Good			
Understanding of construction details	Excellent				
Understanding of Construction sequences		Good			
Site Supervision / Discussion with clients	Excellent				
Adherence to Time schedule		Good			
Quantitative aptitude		Good			
Documentation skills	Excellent				
Coordination with other consultants	Excellent				

Overall Grading*

A

(A – 8.0, B – 7.0, C – 6.0, D – 5.5, E – 5.0, F – <5)

7. Any other Remarks :-----

8. Signature of the Head of the Office / Organization (With Seal)

[Signature]

Authorised Signatory



WORK DIARY

(Annexure –VIII)

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
14.12.2020	SKCL EXCELLENCE	FLOOR PLAN STUDY	31.01.2020	SKCL EXCELLENCE	FLOOR PLAN UPDATE
15.12.2020	SKCL EXCELLENCE	FLOOR PLAN STUDY	02.01.2021	SKCL EXCELLENCE	FLOOR PLAN UPDATE
16.12.2020	SKCL EXCELLENCE	SITE VISIT - SUBSTRUCTURE COLUMN CONCRETING	04.01.2021	SKCL EXCELLENCE	CHANGE IN SHCEDULE
17.12.2020	SKCL EXCELLENCE	SITE VISIT - SUBSTRUCTURE COLUMN CONCRETING	05.01.2021	SKCL EXCELLENCE	CHANGE IN SHCEDULE
18.12.2020	SKCL EXCELLENCE	SITE VISIT – COLUMN QUALITY CHECK	06.01.2021	SKCL EXCELLENCE	EQUIPMENT STUDY
19.12.2020	SKCL EXCELLENCE	FLOOR PLAN UPDATE	07.01.2021	SKCL EXCELLENCE	LABOUR DATA
21.12.2020	SKCL EXCELLENCE	FACILITY MANAGEMENT	08.01.2021	SKCL EXCELLENCE	BARBENDING
22.01.2020	SKCL EXCELLENCE	FACILITY MANAGEMENT	09.01.2021	SKCL CENTRAL SQUARE - 1	SITE VISIT
23.01.2020	SKCL EXCELLENCE	FLOOR PLAN UPDATE	11.01.2021	SKCL CENTRAL SQUARE - 2	SITE VISIT
24.01.2020	SKCL EXCELLENCE	FLOOR PLAN UPDATE	12.01.2021	SKCL CENTRAL SQUARE - 2	SITE VISIT
26.01.2020	SKCL EXCELLENCE	FORMWORK CHECKLIST FORMATTING	13.01.2021	SKCL EXCELLENCE	POUR CARD CHECKLIST FORMATTING
28.01.2020	SKCL EXCELLENCE	FORMWORK CHECKLIST FORMATTING	19.01.2021	SKCL EXCELLENCE	PCC CHEKCLIST FORMATTING
29.01.2020	SKCL EXCELLENCE	SITE VISIT	20.01.2021	SKCL EXCELLENCE	SCHEDULE UPDATE
30.01.2020	SKCL EXCELLENCE	SITE VISIT	21.01.2021	SKCL EXCELLENCE	SITE VISIT

Chief Architect Signature:

Office seal:

Consolidated Certificate (Experience)

Annexure - IX



To:

The Head of the Department,
Sathyabama Institute of Science and Technology,
Rajiv Gandhi Salai, Jeppiar Nagar,
Chennai – 600119.

Respected Sir,

This is to certify that **Ms. Deepika.S** (REG No. **39840006**) has undergone Project Management Student Professional Training with us from 14.12.2020 to 22.01.2021 and has successfully completed 30 days period training.

During her training as a trainee with us, we found her diligent, intelligent and hardworking. We wish her all the best & success for her future endeavors.

She has been relieved from all her services as per the rules of the company.

Thanking you,

For SRI KAUSALYA CONSTRUCTIONS LTD.

Authorised Signatory



Place: Chennai

Date: 23.01.2021

SRI KAUSALYA CONSTRUCTIONS LIMITED

PROPERTY DEVELOPERS

Off : No.4, Jayalakshmi Puram, First Street, Nungambakkam, Chennai - 600 034, India.
Ph : 4211 3810 / 4211 3820 Fax : 0091-44-2821 2494, Web : www.skcl.co.in Email : marketing@skcl.co.in
CIN : U45202TN2003PLCO51732

TABLE OF CONTENTS

Annexure - X

CHAPTER NO	TITLE
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1. INTRODUCTION

- 1.1 Objectives of Professional Training
- 1.2 Reasons for choosing the organization
- 1.3 About the organization
- 1.4 Roles and responsibilities of the organization in the project

2. PROJECT DETAILS

- 2.1 Description about the project
- 2.2 Scope of work in the project
- 2.3 Company organization chart
- 2.4 Floor plans
- 2.5 Master schedule
- 2.6 Checklist Formatting & Equipment study
- 2.7 Equipment Study
- 2.8 List of activities involved in the project

3. CONCLUSION

- 3.1 Lessons learnt from the project
- 3.2 Conclusion

1. INTRODUCTION

1.1 Objectives of professional training:

- To understand the role of project management in the construction industry
- Contributions of the firm to the project
- To explore the core areas of Building services and management

1.2 Reasons for choosing the organization:

- SKCL Company is one of the leading organizations in Chennai dealing IT Building Projects. The firm deals with different contractors for architectural plans, civil works, project management, Structural, Electrical and Plumbing works in the respected projects.
- Through this which we can gain knowledge of dealing with different contractors for the work completion.

1.3 About the organization:

- The first ever IT Park named Satyam Centre was constructed by SKCL
- Uniqueness of this project was the 'Built to suit' model of constructing and delivering a building of about 150,000 sq. ft. exactly in six months a record that has not been come close to even today.
- SKCL has entered into a Joint Venture with Indo Space, a Company promoted by the world renowned Real Term of USA & Everstone Capital of Singapore to develop an industrial Park at Oragadam, the Auto Hub of Greater Chennai. Today, this is a functional and well patronized project.

1.4 Roles and responsibilities of the organization in the project:

- The organization takes over the land and allots the contractors for architectural works, civil works, project management works and structural works.
- The organization manages all its buildings to ensure maximum satisfaction to all the clients through its subsidiary called SKCL PMS. It has a dedicated team of professionals to take care of every need of the clients and the testimonials say it all. As part of facility management, SKCL PMS provides the following services.
 1. House Keeping
 2. Security Services
 3. Pest Control
 4. Waste Management
 5. Mechanical and Electrical Services
 6. HVAC
 7. Water Management and Plumbing
 8. Safety Management

2. PROJECT DETAILS

SKCL EXCELLENCE, GUINDY, CHENNAI – 32

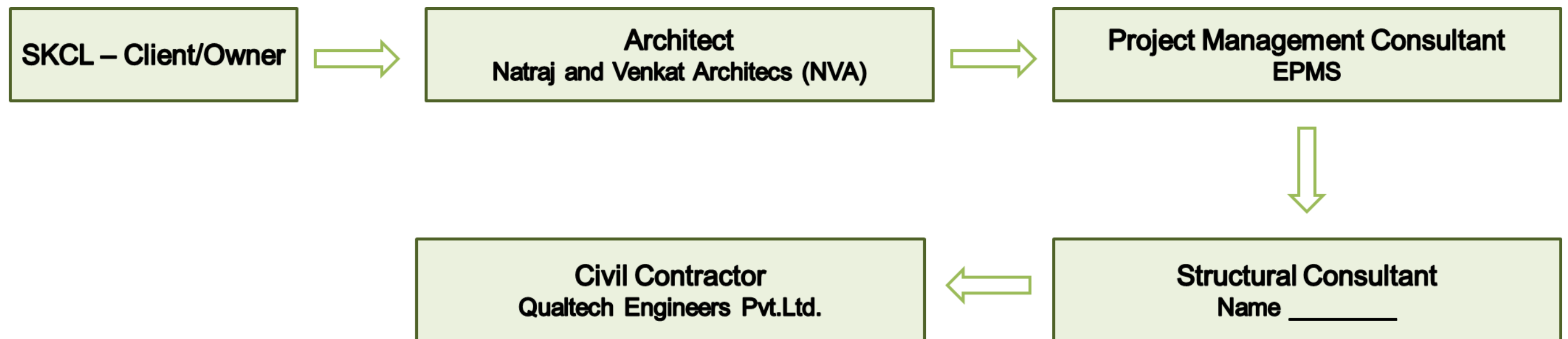
2.1 Project Description:

- Excellence is an under construction project developed by SKCL in Secondary Business District of Guindy. The project is well equipped with modern amenities, ample in house parking and has an excellent connectivity with all public and private transportation services. Total built-up area is 75,714 sq.ft. across 6 floors, typical floor area of 12,619 sq.ft. with one level of basement and one stilt parking. Since its located in Guindy Industrial Estate, it has a good access to various IT Parks, Bus Stops, Metro Stations, Railway Stations and Hospitals. Also is located close to the Chennai International Airport and some renowned hotels like 'Hilton' and 'ITC Grand Chola' are also located nearby.

2.2 Scope of work:

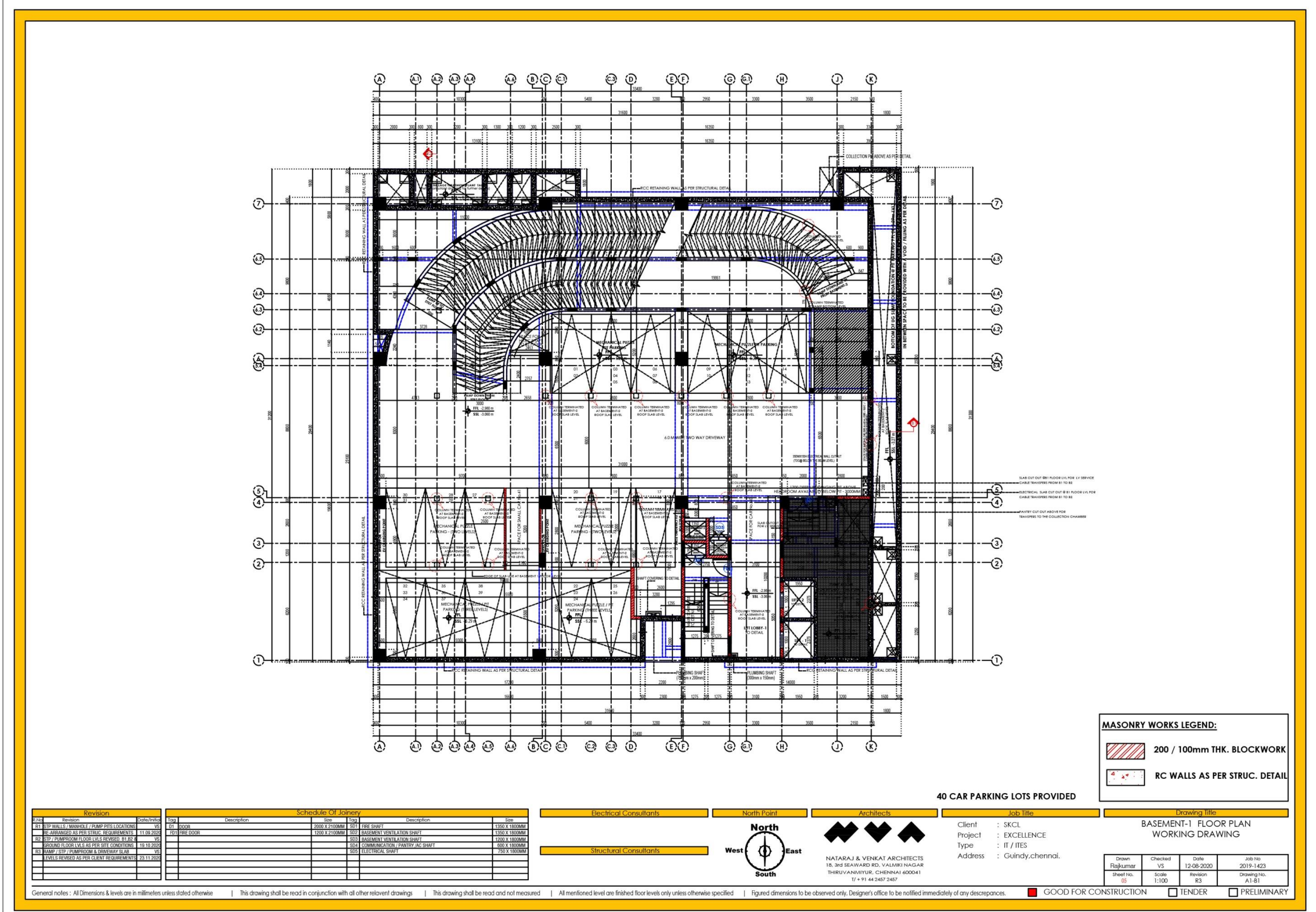
- Study on floor plans before entering the site
- Preparing checklist for finishing works
- Observation of quality check done for the finished works
- Observation of the equipments used at site
- Observation of Labour productivity

2.3 Company organization chart:

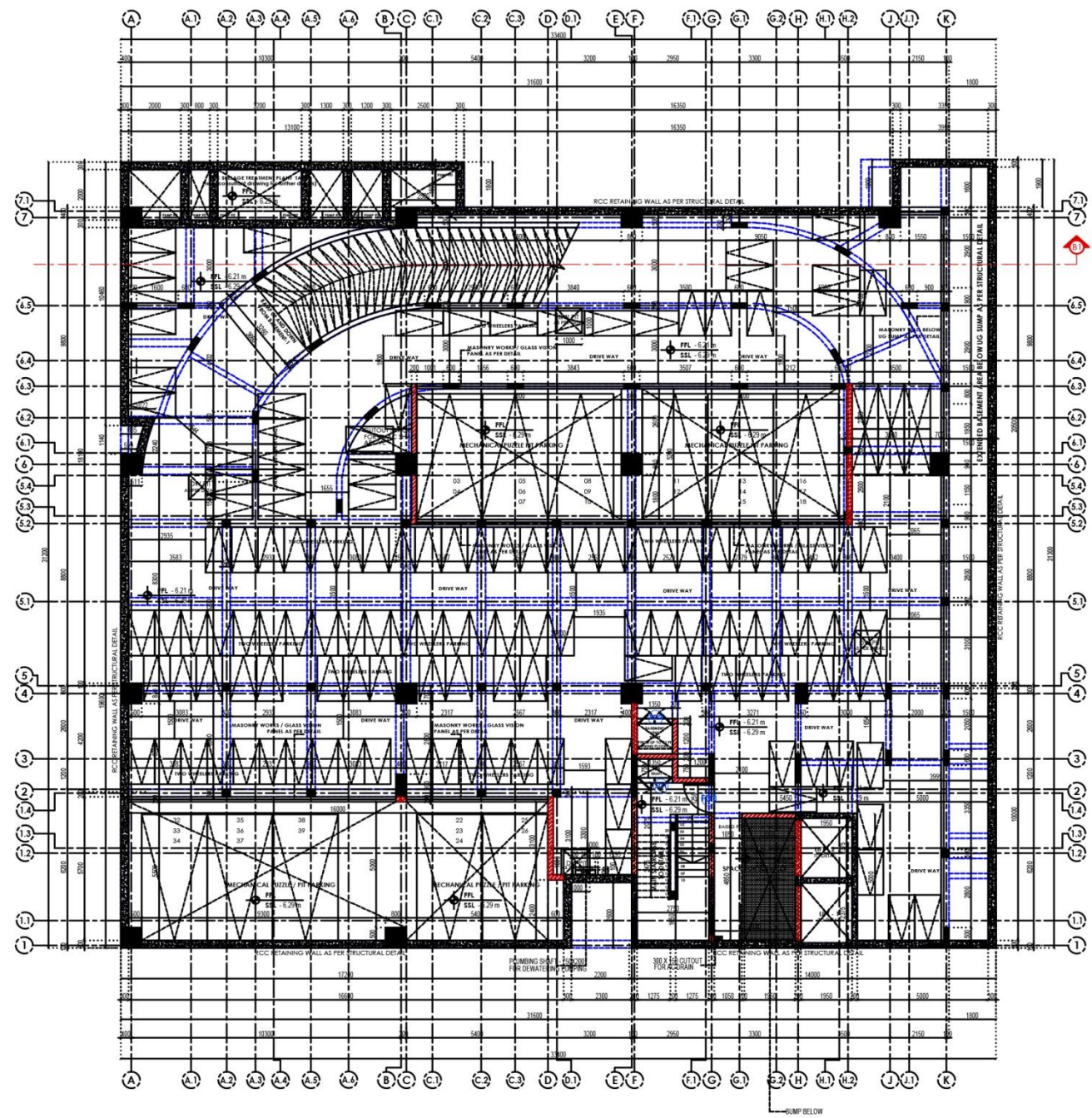


2.4 Floor Plans:

BASEMENT 2 FLOOR PLAN



BASEMENT 1 FLOOR PLAN

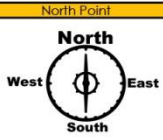


MASONRY WORKS LEGEND:	
	200 / 100mm THK. BLOCKWORK
	RC WALLS AS PER STRUC. DETAIL

154 TWO WHEELER PARKING PROVIDED

Revision			Schedule Of Joinery			
Rev	Description	Date/Init	Tag	Description	Size	Tag
B1	STP WALLS / MANHOLE / PUMP PITS LOCATIONS	VS	D2	DOOR	1000 X 2100MM	S01
B2	RE-ARRANGED AS PER STRUC. REQUIREMENTS	11.09.2020				
B3	STP / PUMPROOM FLOOR LVLS REVISED BY B2	VS				
B4	GROUND FLOOR LVLS AS PER SITE CONDITIONS	19.10.2020				
B5	BASEMENT USE, RAMP & DRIVEWAY SLAB	VS				
B6	LEVELS REVISED AS PER CLIENT REQUIREMENTS	23.11.2020				

Electrical Consultants	
North Point	
Structural Consultants	



Architects	
NATARAJ & VENKAT ARCHITECTS 18, 3rd SEAWARD RD, VALAIKIL NAGAR THIRUVANMIYUR, CHENNAI 600041 T / F 91 44 2457 2457	

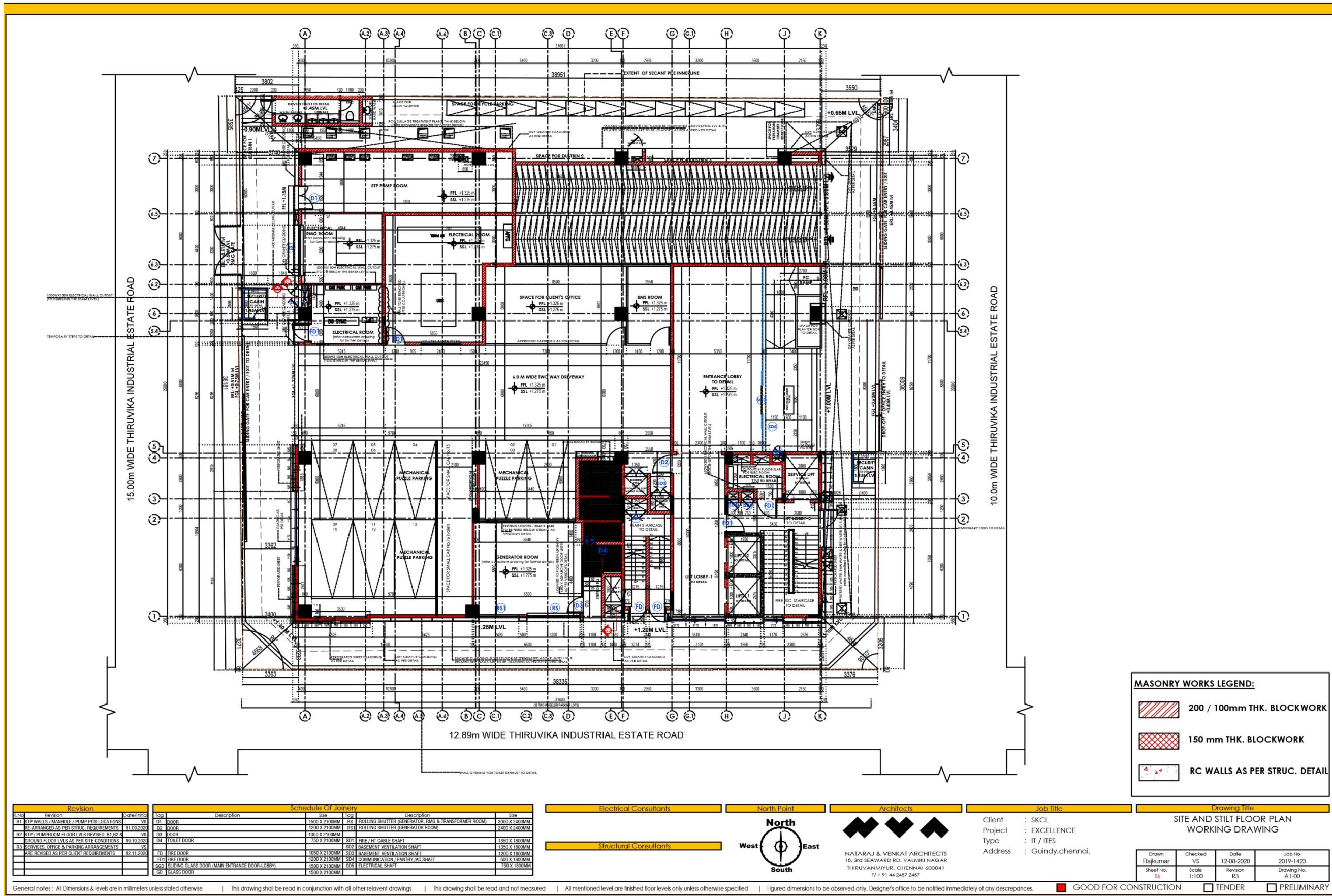
Job Title	
Client : SKCL Project : EXCELLENCE Type : IT / IITES Address : Guindy, Chennai.	

Drawing Title	
BASEMENT-2 FLOOR PLAN	

Drawn: Rajkumar	Checked: VS	Date: 12-08-2020	Job No: 2019-1423
Sheet No: 04	Scale: 1:100	Revision: R3	Drawing No: A1-B2

General notes : All Dimensions & levels are in millimeters unless stated otherwise | This drawing shall be read in conjunction with all other relevant drawings | This drawing shall be read and not measured | All mentioned level are finished floor levels only unless otherwise specified | Figured dimensions to be observed only, Designer's office to be notified immediately of any discrepancies. ☒ GOOD FOR CONSTRUCTION ☐ TENDER ☐ PRELIMINARY

GROUND FLOOR PLAN

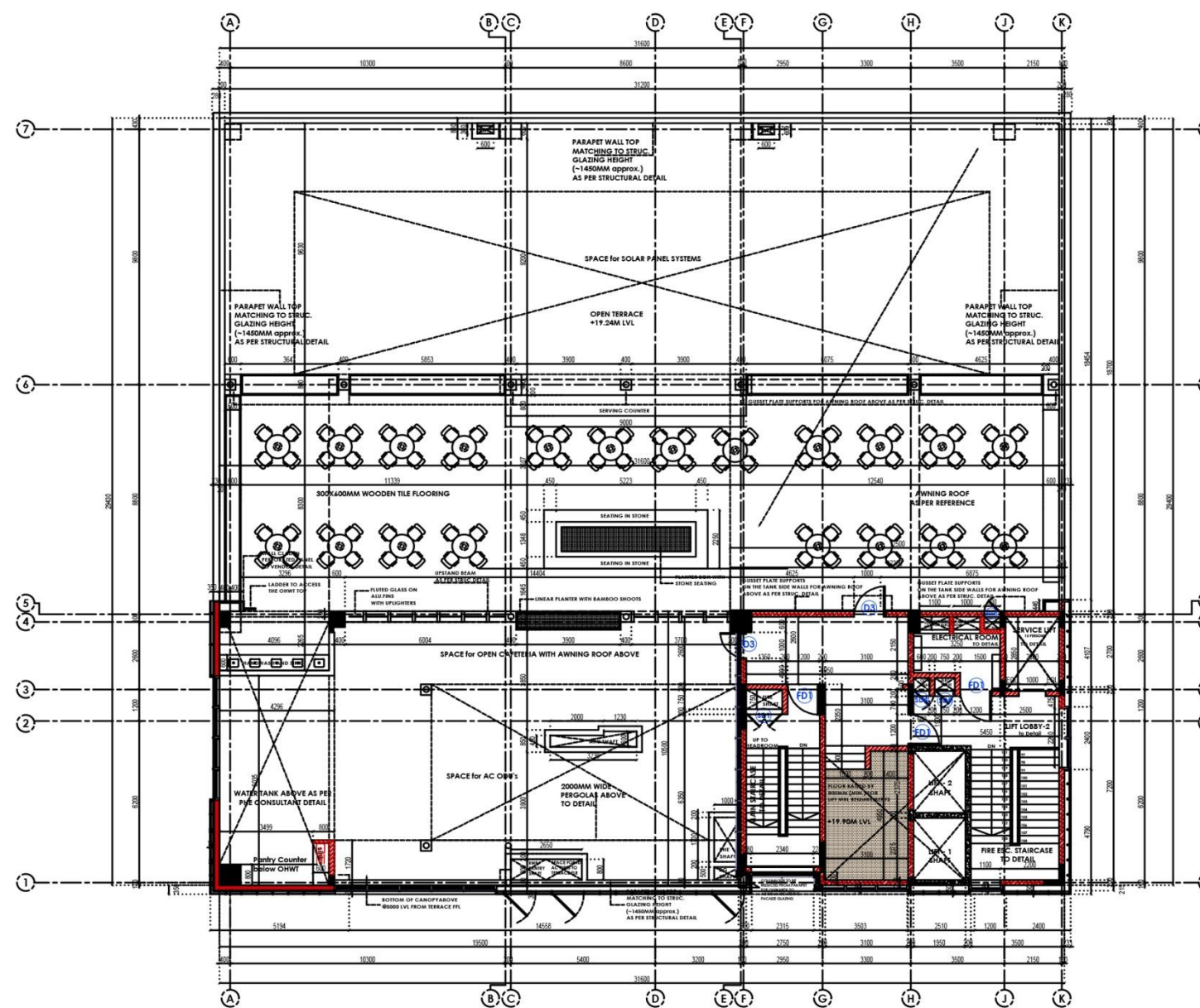


TYPICAL (2ND, 3RD & 4TH) FLOOR PLAN

MASONRY WORKS LEGEND:

- 200 / 100mm THK. BLOCKWORK
- 150 mm THK. BLOCKWORK
- RC WALLS AS PER STRUC. DETAIL

TERRACE FLOOR PLAN



TERRACE FLOOR PLAN

<u>MASONRY WORKS LEGEND:</u>	
	200 / 100mm THK. BLOCKWORK
	150 mm THK. BLOCKWORK
	RC WALLS AS PER STRUC. DETAIL

[illegible]

Electrical Consultants

North Point

Architects

Job Title

Drawing Title

TERRACE FLOOR PLAN WORKING DRAWING

Client	: SKCL
Project	: EXCELLENCE
Type	: IT / ITES
Address	: Guindy, chennai.

NATARAJ & VENKAT ARCHITECTS
18, 3rd SEAWARD RD, VALMIKI NAGAR
THIRUVANMIYUR, CHENNAI 600041
T/ + 91 44 2457 2457

Drawn Rajkumar	Checked VS	Date 05-08-2020	Job No 2019-1423
Sheet No. 08	Scale 1:100	Revision R0	Drawing No. A.1.1E

General notes : All Dimensions & levels are in millimeters unless stated otherwise	This drawing shall be read in conjunction with all other relevant drawings	This drawing shall be read and not measured	All mentioned level are finished floor levels only unless otherwise specified	Figured dimensions to be observed only. Designer's office to be notified immediately of any discrepancies.	GOOD FOR CONSTRUCTION	☐ TENDER	☐ PRELIMINARY
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2.5 Master Schedule:

	Qualtech Engineers Pvt Ltd			
	Construction of "Excellence" Office Building at Guindy, Chennai for M/s. Sri Kausalya Constructions Ltd.			
	Project Completion - 30.10.2021			04.01.2021
	<u>Completion Schedule</u>			
Sl.No	Description	Duration	Date of Start	Date of Completion
A)	<u>Sub Structure upto Basement</u>		Completed	
B)	<u>Super Structure (42 Days x 1 Slab + 30Days x 5 Slabs)</u>	209	08/01/2021	04/08/2021
	<u>Basement floor II roof slab</u>			08/01/2021
	<u>Basement floor I roof slab</u>	42	09/01/2021	19/02/2021
	Column/Shear Walls / Basement RCC Walls	15	09/01/2021	23/01/2021
	Water proofing of Walls	3	24/01/2021	26/01/2021
	Back filling	6	27/01/2021	01/02/2021
	Roof slab & Ramp Slab shuttering	20	24/01/2021	12/02/2021
	Roof slab Reinforcement	7	11/02/2021	17/02/2021
	Electrical Conduits laying / PT Work	3	16/02/2021	18/02/2021
	Roof slab concrete	1	19/02/2021	19/02/2021
	<u>Ground floor roof slab</u>	30	20/02/2021	21/03/2021
	Column concrete	8	20/02/2021	27/02/2021
	Roof slab shuttering	15	27/02/2021	13/03/2021
	Roof slab Reinforcement	7	13/03/2021	19/03/2021
	Electrical Conduits laying / PT Work	3	18/03/2021	20/03/2021
	Roof slab concrete	1	21/03/2021	21/03/2021

Sl.No	Description	Duration	Date of Start	Date of Completion
	<u>First floor roof slab</u>	30	22/03/2021	20/04/2021
	Column concrete	8	22/03/2021	29/03/2021
	Roof slab shuttering	15	29/03/2021	12/04/2021
	Roof slab Reinforcement	7	12/04/2021	18/04/2021
	Electrical Conduits laying / PT Work	3	17/04/2021	19/04/2021
	Roof slab concrete	1	20/04/2021	20/04/2021
	<u>Second floor roof slab</u>	30	21/04/2021	20/05/2021
	Column concrete	8	21/04/2021	28/04/2021
	Roof slab shuttering	15	28/04/2021	12/05/2021
	Roof slab Reinforcement	7	12/05/2021	18/05/2021
	Electrical Conduits laying / PT Work	3	17/05/2021	19/05/2021
	Roof slab concrete	1	20/05/2021	20/05/2021
	<u>Third floor roof slab</u>	30	21/05/2021	19/06/2021
	Column concrete	8	21/05/2021	28/05/2021
	Roof slab shuttering	15	28/05/2021	11/06/2021
	Roof slab Reinforcement	7	11/06/2021	17/06/2021
	Electrical Conduits laying / PT Work	3	16/06/2021	18/06/2021
	Roof slab concrete	1	19/06/2021	19/06/2021
	<u>Fourth floor roof slab</u>	30	20/06/2021	19/07/2021
	Column concrete	8	20/06/2021	27/06/2021
	Roof slab shuttering	15	27/06/2021	11/07/2021
	Roof slab Reinforcement	7	11/07/2021	17/07/2021
	Electrical Conduits laying / PT Work	3	16/07/2021	18/07/2021
	Roof slab concrete	1	19/07/2021	19/07/2021
	<u>Terrace structure</u>	16	20/07/2021	04/08/2021
	<u>Lift & Stair Headroom roof slab</u>			
	Column concrete	3	20/07/2021	22/07/2021
	Roof slab shuttering	5	23/07/2021	27/07/2021
	Roof slab Reinforcement	3	28/07/2021	30/07/2021
	Roof slab concrete	1	31/07/2021	31/07/2021
	<u>OHT</u>			
	Base slab shuttering	2	23/07/2021	24/07/2021
	Base slab reinforcement	1	25/07/2021	25/07/2021
	Base slab concrete	1	26/07/2021	26/07/2021
	Walls reinforcement	2	27/07/2021	28/07/2021
	Walls shuttering	2	29/07/2021	30/07/2021
	Walls concrete	1	31/07/2021	31/07/2021
	Cover slab shuttering	2	01/08/2021	02/08/2021
	Cover slab reinforcement	2	02/08/2021	03/08/2021
	Cover slab concrete	1	04/08/2021	04/08/2021

Sl.No	Description	Duration	Date of Start	Date of Completion
C)	<u>FINISHING WORKS</u>	195	06/03/2021	16/09/2021
	<u>Basement floor II</u>	45	06/03/2021	19/04/2021
	Block Work Upto Lintel level	15	06/03/2021	20/03/2021
	Lintel Beam reinforcement / Shuttering	2	21/03/2021	22/03/2021
	Lintel Beam Concrete	1	23/03/2021	23/03/2021
	Blockwork above lintel level	4	24/03/2021	27/03/2021
	Door Frame Fixing	2	04/04/2021	05/04/2021
	Ceiling & Inner Plastering	15	28/03/2021	11/04/2021
	Flooring & Toilet Finishing	15	12/04/2021	26/04/2021
	Door Shutters, Aluminium Joinery Fixing	1	12/04/2021	12/04/2021
	Painting	8	12/04/2021	19/04/2021
	<u>Basement floor II</u>	45	05/04/2021	19/05/2021
	Block Work Upto Lintel level	15	05/04/2021	19/04/2021
	Lintel Beam reinforcement / Shuttering	2	20/04/2021	21/04/2021
	Lintel Beam Concrete	1	22/04/2021	22/04/2021
	Blockwork above lintel level	4	23/04/2021	26/04/2021
	Door Frame Fixing	2	04/05/2021	05/05/2021
	Ceiling & Inner Plastering	15	27/04/2021	11/05/2021
	Flooring & Toilet Finishing	15	12/05/2021	26/05/2021
	Door Shutters, Aluminium Joinery Fixing	1	12/05/2021	12/05/2021
	Painting	8	12/05/2021	19/05/2021
	<u>Ground floor</u>	45	05/05/2021	18/06/2021
	Block Work Upto Lintel level	15	05/05/2021	19/05/2021
	Lintel Beam reinforcement / Shuttering	2	20/05/2021	21/05/2021
	Lintel Beam Concrete	1	22/05/2021	22/05/2021
	Blockwork above lintel level	4	23/05/2021	26/05/2021
	Door Frame Fixing	2	03/06/2021	04/06/2021
	Ceiling & Inner Plastering	15	27/05/2021	10/06/2021
	Flooring	15	11/06/2021	25/06/2021
	Door Shutters, Aluminium Joinery Fixing	1	11/06/2021	11/06/2021
	Painting	8	11/06/2021	18/06/2021
	<u>First floor</u>	45	04/06/2021	18/07/2021
	Block Work Upto Lintel level	15	04/06/2021	18/06/2021
	Lintel Beam reinforcement / Shuttering	2	19/06/2021	20/06/2021
	Lintel Beam Concrete	1	21/06/2021	21/06/2021
	Blockwork above lintel level	4	22/06/2021	25/06/2021
	Door Frame Fixing	2	03/07/2021	04/07/2021
	Ceiling & Inner Plastering	15	26/06/2021	10/07/2021
	Toilet Tiling & Flooring	15	11/07/2021	25/07/2021
	Door Shutters, Aluminium Joinery Fixing	1	11/07/2021	11/07/2021
	Painting	8	11/07/2021	18/07/2021

Sl.No	Description	Duration	Date of Start	Date of Completion
	<u>Second floor</u>	45	04/07/2021	17/08/2021
	Block Work Upto Lintel level	15	04/07/2021	18/07/2021
	Lintel Beam reinforcement / Shuttering	2	19/07/2021	20/07/2021
	Lintel Beam Concrete	1	21/07/2021	21/07/2021
	Blockwork above lintel level	4	22/07/2021	25/07/2021
	Door Frame Fixing	2	02/08/2021	03/08/2021
	Ceiling & Inner Plastering	15	26/07/2021	09/08/2021
	Toilet Tiling & Flooring	15	10/08/2021	24/08/2021
	Door Shutters, Aluminium Joinery Fixing	1	10/08/2021	10/08/2021
	Painting	8	10/08/2021	17/08/2021
	<u>Third floor</u>	45	03/08/2021	16/09/2021
	Block Work Upto Lintel level	15	03/08/2021	17/08/2021
	Lintel Beam reinforcement / Shuttering	2	18/08/2021	19/08/2021
	Lintel Beam Concrete	1	20/08/2021	20/08/2021
	Blockwork above lintel level	4	21/08/2021	24/08/2021
	Door Frame Fixing	2	01/09/2021	02/09/2021
	Ceiling & Inner Plastering	15	25/08/2021	08/09/2021
	Toilet Tiling & Flooring	15	09/09/2021	23/09/2021
	Door Shutters, Aluminium Joinery Fixing	1	09/09/2021	09/09/2021
	Painting	8	09/09/2021	16/09/2021
	<u>Fourth floor</u>	45	03/08/2021	16/09/2021
	Block Work Upto Lintel level	15	03/08/2021	17/08/2021
	Lintel Beam reinforcement / Shuttering	2	18/08/2021	19/08/2021
	Lintel Beam Concrete	1	20/08/2021	20/08/2021
	Blockwork above lintel level	4	21/08/2021	24/08/2021
	Door Frame Fixing	2	01/09/2021	02/09/2021
	Ceiling & Inner Plastering	15	25/08/2021	08/09/2021
	Toilet Tiling & Flooring	15	09/09/2021	23/09/2021
	Door Shutters, Aluminium Joinery Fixing	1	09/09/2021	09/09/2021
	Painting	8	09/09/2021	16/09/2021
	<u>Terrace Block Work, LMR & SHR</u>	18	01/08/2021	18/08/2021
	Block Work Upto Lintel level	5	01/08/2021	05/08/2021
	Lintel Beam Shuttering/reinforcement	1	06/08/2021	06/08/2021
	Lintel Beam Concrete	1	07/08/2021	07/08/2021
	Blockwork above lintel level	2	08/08/2021	09/08/2021
	Parapet wall masonry	10	01/08/2021	10/08/2021
	Water Proofing & Pressed clay tiles	15	04/08/2021	18/08/2021
D)	<u>External Works</u>	60	23/08/2021	21/10/2021
	External Plastering & Painting	60	23/08/2021	21/10/2021
	Compound Wall Works	30	23/08/2021	21/09/2021
	<u>External Works & Paver Block laying</u>	45	01/09/2021	15/10/2021
	Internal Final Painting	15	19/09/2021	03/10/2021
E)	<u>Other works</u>	42	19/09/2021	30/10/2021

Sl.No	Description	Duration	Date of Start	Date of Completion
	Miscellaneous works like shaft platform etc	25	19/09/2021	13/10/2021
	Final Cleaning & Handing over	15	16/10/2021	30/10/2021

2.6 Checklist Formatting:

A. Pour Card Checklist

- In larger concrete projects with a good quality control program, a **pour card** is a document that describes the location of the concrete being **poured**, type/specification of concrete being supplied, a signature block by the inspector and/or **engineer** indicating that the rebar has been inspected in-place and approved.

B. Formwork Checklist:

- Formwork is temporary or permanent molds into which concrete or similar materials are poured. In the context of concrete construction, the falsework supports the shuttering molds.

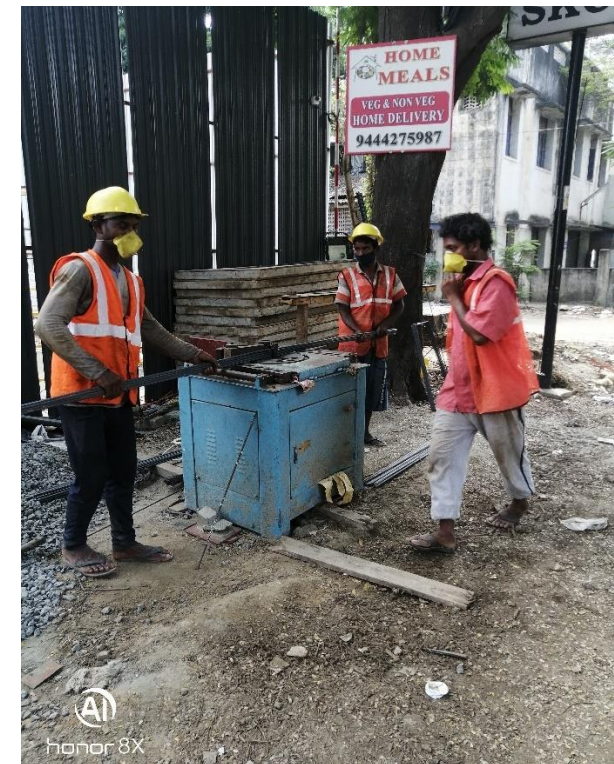
C. PCC Checklist:

- This checklist about Plain Cement Concrete (PCC) lists out points to take care of such as formwork, pouring, curing etc. ... Check for mixing of cement, sand and aggregate and adequate material.

2.7 Equipment Study:

STEEL BENDING MACHINE

- Rods of size 8mm to 16mm are bended in groups (4 to 5 rods at a time)
- Rods of size 20mm to 32mm are bended one by one only.



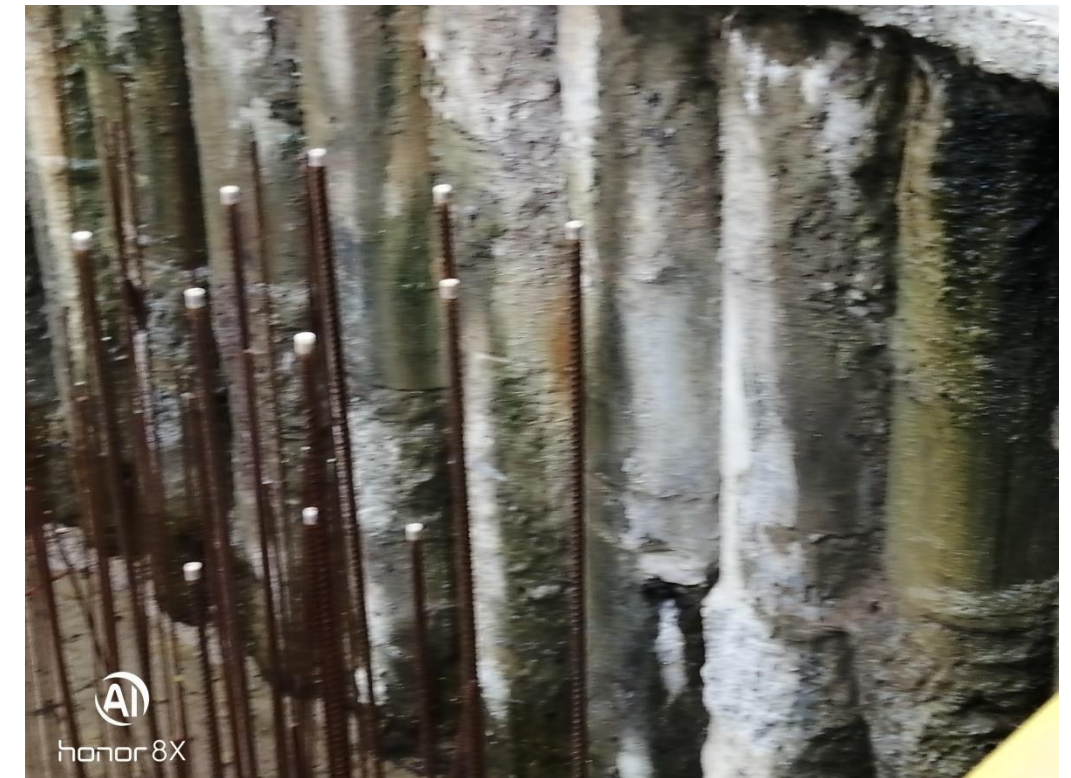
- **STEEL CUTTING MACHINE**

1. Rods of size 8mm to 16mm can be cut in groups (4 to 5 rods at a time)
2. Rods of size 20mm to 32mm can be cut only one after the other.



- **THREADING MACHINE**

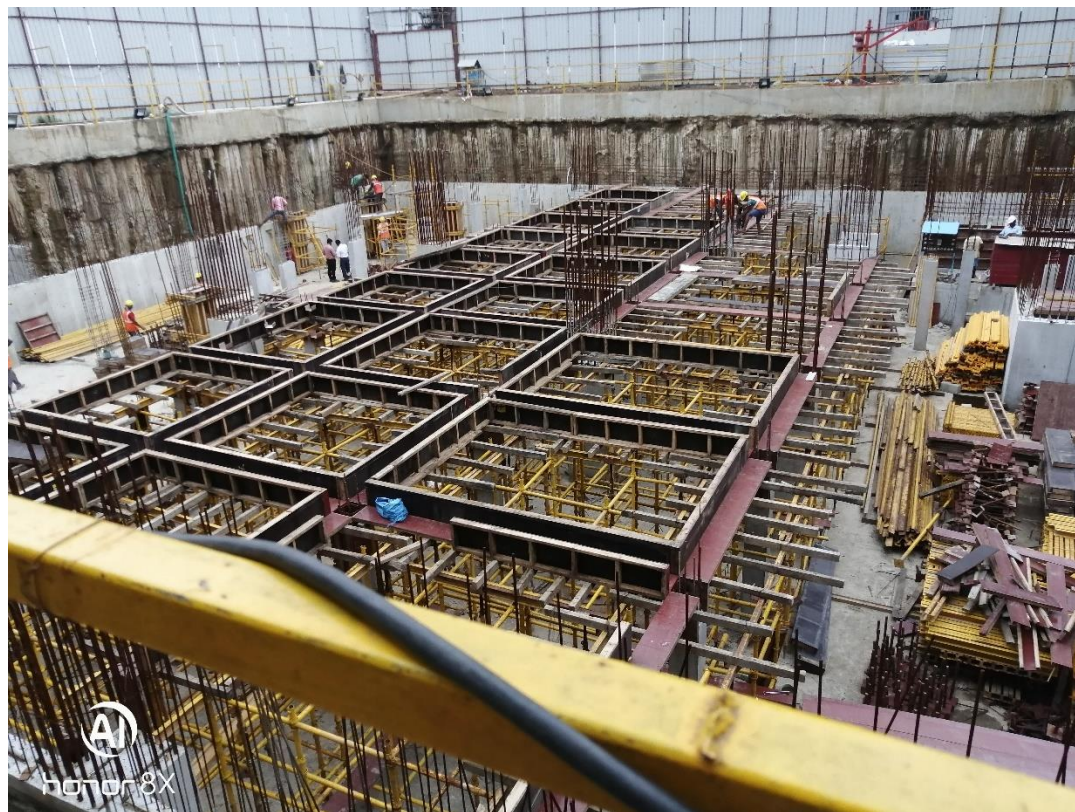
1. These are used to put couplers on the rods used for columns.
2. The use of Ancon **Reinforcing Bar Couplers** can simplify the design and construction of reinforced concrete and reduce the amount of reinforcement required.



- **CONCRETE MIXER**

1. Specifications about the aggregate sizes, cement grade and m.sand grade will be specified on the equipment and accordingly the concrete mixtures will be prepared.

2. Separate contractor for concrete mixer is fixed by the civil contractor.



SLAB SHUTTERING



DURING CONCRETING



VIBRATOR



QUALITY TEST AFTER CONCRETING



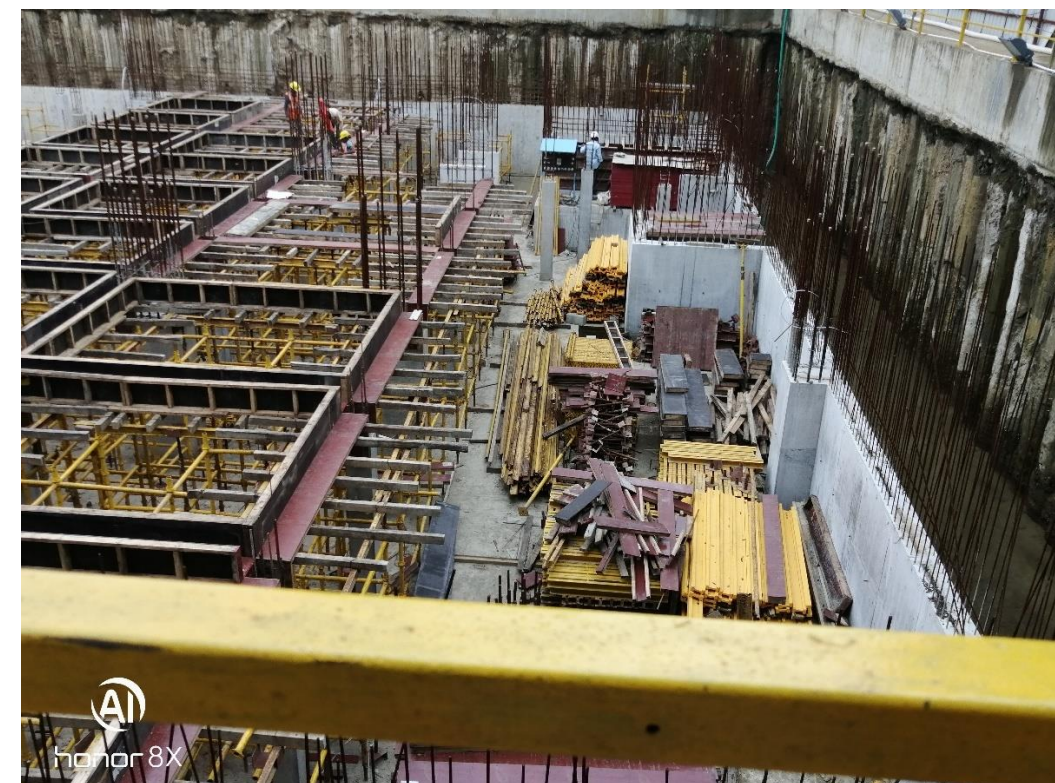
PROPPING FOR FORMWORK



SUBSTRUCTURE UPTO BASEMENT



FORMWORK FOR BASEMENT COLUMN



PILE FOUNDATION

Engineering & Project Management Solutions			
POUR CARD			
Project :		Date :	
AREA OF CONCRETING:		LOCATION/ GRID:	
		LEVEL:	
SOURCE OF CONCRETE:			
STRUCTURAL ELEMENT:		DRAWING NO. :	
GRADE OF CONCRETE :		QTY OF CONCRETE :	
Inspection Items		PMC to check	Remarks
Survey	Grid lines		
	Level		
Form work	Alignment		
	Dimensions		
	level		
	Plumb		
	Cleanliness		
Steel reinforcement	BBS		
	Spacer		
	Lap		
	Chair		
	Extra Rods		
	Cover		
	Cleanliness		
Openings	Size		
	Level		
	Trimming Bars		
Inserts	Position		
	Size		
Services	Electrical		
	Sanitary & Plumbing		
	Fire fighting		
	Others		
		Contractor Signature	PMC Signature
Inspection	Stage 1		
	Stage 2		
Concreting Start time : Concreting Finish time : Concrete Sampling : Cube ID : No. of Cubes : Slump : Copy to : Client/Site/Batching plant			

		FORMWORK CHECK LIST.		Code: CHLST FMWK
				No. & Date:
Project No. & Name				
Location and description of structure:				
Applicable drawing no:		Others if any ☐		Revision:
Architectural ☐				
Structural ☐				
Inspection Item:	YES	NO	Comments	
BEFORE STARTING FORMWORK				
Availability of materials tools and tackles labour				
Starters for columns, walls & beam bottom level & slab level are ok.				
Grid dimensions between columns				
Diagonal dimensions between columns				
Safety measures such as helmets and safety belts				
AFTER FORMWORK COMPLETION				
Lines and levels correct:				
Shuttering material as per contract				
Cleanliness of shuttering surface				
Tightness and rigidity				
Oiling of shuttering				
Verticality of column shuttering				
Proper struts for column shuttering				
Cutouts as per drawing				
Adequacy of prop spacing				
Adequacy of prop bracing				
Provision of base plate under prop				
Proper alignment of props				
Adequacy of cantilever support				
Proper struts for beam sides				
Treatment of expansion joint / contraction joint as per specification				
Shuttering joints sealed				
Formwork face acceptable				
Staging made for labour movement				
Re-Check cover block for columns				
Any other remarks:				
Contractor's Signature		The above items are checked and released for next activity PMC Signature		

Engineering & Project Management Solutions

	PCC CHECK LIST.		CODE : CHLST PCC	
			Date:	
Project.				
Location and description of structure:				
Drawing number:			Revision:	
PCC Inspection Item:	YES	NO	Signature	Date
Completion of Preceding activities (Such as Filling, Consolidation etc.,)				
Dimensions				
Mix Proportions				
Formwork for Sides				
Placement – Compaction, Ramming etc.,				
Finished Level				
Surface Finish				
The above backfill activities are correct and ready for release:	Contractor: Signature:			
	PMC: Signature:			

3. CONCLUSION

3.1 Lessons learnt from the project:

- Column concreting
- Slab shuttering
- Site supervising
- Schedule altering
- Steel bending and steel cutting
- Coupler for rods
- Quality checks

3.2 Conclusion:

- The training program helps us in understating the initial and final stage procedures of a project. The internship establishes the management activities, which are involved in a IT Building construction. Overall, it helps us to know more about the field of project management.