



SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

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

**PROFESSIONAL TRAINING (S84APT)
DEC 2021 - JAN 2022**

Name of the Student : K. Guru Sounder

Semester : III

Reg No. : 40840006

Batch : 2020-2022



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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 Report (S84APT) is the work of **GURUSOUNER K** who had undergone training in **AKASH CONSTRUCTION COMPANY** and has been monitored by the continuous assessment during Dec 2021 to Jan 2022.

Dr. Devyani Gangopadhyay
HOD AND DEAN

Submitted for Viva voce Examination held on 01.02.2022

Internal Examiner
(Ar. SUKIRTHA SURESH)

External Examiner
(Ar. HENA DAMODHARAN)



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DECLARATION

I **GURUSOUNDER K** hereby declare that this Professional Training Report for **30days from 3rd Dec 2021 to 10th Jan 2022** done by me under the guidance of **PM KRISHNAMOORTHY** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 25.01.2022

PLACE : CHENNAI

A handwritten signature in blue ink, reading 'Gurusunder, K'.

SIGNATURE OF CANDIDATE

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 **PM Krishnamoorthy** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Training.

I would like to thank **Mr.Suresh (General Manager)**, for providing me an opportunity to engage myself as a trainee in **Akash Construction Company, No 7-A, Sambakkulam, K.Pudur, Madurai – 625007.**

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.



Akash Construction Company
ENGINEERS & BUILDERS, Madurai- 625 007

03.12.2021

The Head of the Department,
Dept. of Architecture
School of Building & Environment
Sathyabama Institute of Science and Technology
Rajiv Gandhi Salai,
Jeppiaar Nagar,
Chennai – 600 119,
Tamil Nadu

Dear Sir,

This has reference to your letter regarding implant training of the following student pursuing M.Arch in Building Management (Final Year) from your institution in our organization.

Mr.K.Guru Sounder

We agree to admit him for implant training for the duration of 03rd Dec 2021 to 10 Jan 2022 in our organization. He may be advised to report at the following address :

Akash Construction Company,

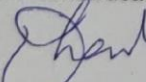
No.7A, Sambakkulam, K.Pudur,

Madurai – 625007.

Contact Number : 99655 93071

Please note that he has to undergo the training without any financial commitment to the Company and fully at his risk and responsibility.

For Akash Construction Company


Authorized Signatory



Akash Construction Company
ENGINEERS & BUILDERS, Madurai- 625 007

IN PLANT TRAINING COMPLETION CERTIFICATE

To whom so ever it may concern

This is to certify that Mr.K.Guru Sounder (Reg.No.40840006), pursuing his M.Arch (Building Management Final year) at Sathyabama Institute of Science And Technology, Rajiv Gandhi Salai, Chennai - 600 119. has successfully completed his In-Plant Training in our concern during the period of 03.12.2021 to 10.01.2022. During the training period, we found him to be sincere and hard working. He was well mannered and displayed inquisitiveness to learn and improve upon service.

Akash Construction Company,


Authorized Signatory.

MONTHLY REPORT



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
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(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: archhud@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 : AKASH CONSTRUCTION COMPANY
2. Address & Contact Number : NO-7, SAMBAKKULAM, K PUDUR, MADURAI
3. Name of the student : GURU SOUNDER K
4. Duration : From 03 Dec 2021 To 31 Dec 2021
5. Total No. of days : 23 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	✓				
Skillsets related to project management	✓				
Design Management		✓			
Understanding the Triple Constraints		✓			
Observation during Site Visits	✓				
Understanding of construction details		✓			
Understanding of Construction sequences	✓				
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule	✓				
Quantitative aptitude	✓				
Documentation skills	✓				
Coordination with other consultants	✓				

Overall Grading*

A

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

7. Any other Remarks : Good

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



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DEPARTMENT OF ARCHITECTURE

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Continuous Assessment Report for Professional training

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1. Name of the office / organization : AKASH CONSTRUCTION COMPANY
2. Address & Contact Number : NO-7, SAMBAKKULAM, K PUDUR, MADURAI
3. Name of the student : GURU SOUNDER K
4. Duration : From 02 Jan 2021 To 10 Jan 2021
5. Total No. of days : 11 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	✓				
Skillsets related to project management	✓				
Design Management		✓			
Understanding the Triple Constraints	✓				
Observation during Site Visits	✓				
Understanding of construction details	✓				
Understanding of Construction sequences	✓				
Site Supervision / Discussion with clients		✓			
Adherence to Time schedule	✓				
Quantitative aptitude	✓				
Documentation skills	✓				
Coordination with other consultants	✓				

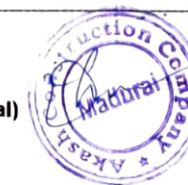
Overall Grading*

A

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

7. Any other Remarks : Good

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



WORK DIARY

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
03 DEC 2021	JUBITER HOMES	SEWAGE TREATMENT LAYOUT	21 DEC 2021	PROPOSED HOSPITAL	FLOOR PLAN LAYOUT
04 DEC 2021	JUBITER HOMES	SEWAGE TREATMENT LAYOUT	22 DEC 2021	VIKRAM SCHOOL	SITE VISIT
06 DEC 2021	JUBITER HOMES	SEWAGE TREATMENT LAYOUT	23 DEC 2021	VIKRAM SCHOOL	SITE VISIT
07 DEC 2021	JUBITER HOMES	SEWAGE TREATMENT LAYOUT	24 DEC 2021	VIKRAM SCHOOL	SITE VISIT
08 DEC 2021	JUBITER HOMES	SEWAGE TREATMENT LAYOUT	27 DEC 2021	PROPOSED HOSPITAL	BILL OF QUANTITY
09 DEC 2021	VIKRAM SCHOOL	SITE VISIT	28 DEC 2021	PROPOSED HOSPITAL	BILL OF QUANTITY
10 DEC 2021	VIKRAM SCHOOL	SITE VISIT	29 DEC 2021	PROPOSED HOSPITAL	BILL OF QUANTITY
11 DEC 2021	VIKRAM SCHOOL	SCHEDULING - MS PROJECT	30 DEC 2021	JUBITER HOMES	SITE VISIT
13 DEC 2021	VIKRAM SCHOOL	SCHEDULING - MS PROJECT	31 DEC 2021	JUBITER HOMES	SITE VISIT
14 DEC 2021	JUBITER HOMES	AREA STATEMENT	02 JAN 2022	JUBITER HOMES	SITE VISIT
15 DEC 2021	JUBITER HOMES	AREA STATEMENT	03 JAN 2022	JAISEE HOSPITAL	CHECKLIST
16 DEC 2021	JUBITER HOMES	AREA STATEMENT	04 JAN 2022	JAISEE HOSPITAL	CHECKLIST
17 DEC 2021	JUBITER HOMES	SITE VISIT	05 JAN 2022	JAISEE HOSPITAL	CHECKLIST
18 DEC 2021	JUBITER HOMES	SITE VISIT	06 JAN 2022	JUBITER HOMES	SITE VISIT
20 DEC 2021	PROPOSED HOSPITAL	FLOOR PLAN LAYOUT	07 JAN 2022	JUBITER HOMES	SITE VISIT

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
1.	GENERAL	1
2.	HISTORY OF THE FIRM	1
3.	JUBITER HOMES - RESIDENTIAL PROJECT DRAWINGS	2
4.	DRAWINGS - SEWAGE TREATMENT PLANT DRAWINGS	2
5.	TOILET AREA STATEMENT	4
6.	KITCHEN AREA STATEMENT	7
7.	CAR PARKING AREA STATEMENT	9
8.	VIKRAM SCHOOL - SCHEDULING	11
9.	FLOOR PLAN LAYOUT- PROPOSED HOSPITAL	13
10.	BOQ - PROPOSED HOSPITAL	17
11.	CHECKLIST	21
12.	SITE PHOTOS	29

GENERAL

Akash Construction Company is one of the leading organizations in Madurai dealing Construction, Project Management and other Architectural services. The firm also deals with real estate and infrastructure management in the respective projects.

FIRM HISTORY

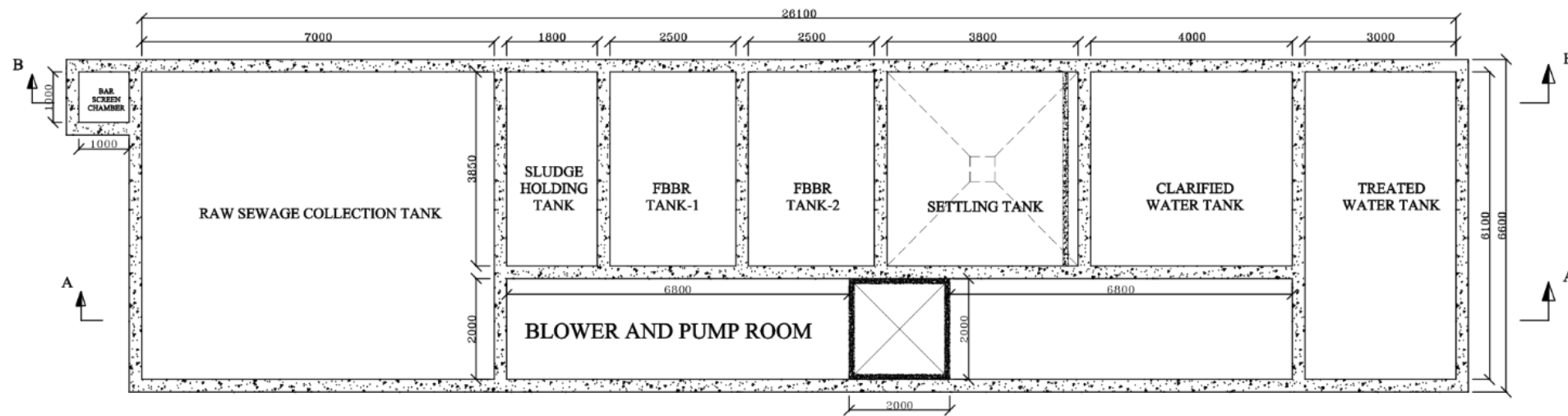
Akash Construction Company has been started by **Mr.V.Krishnamoorthy**, in May 2010 Mr. V. Krishnamoorthy was rendered his services in M/s Srinivasan Associates pvt ltd,(An ISO 9001:2000 Certified Company) Coimbatore, one of the leading Construction companies in Tamilnadu from 1995 to April 2010. He worked as a Project coordinator of the company in Madurai from 1995. As a project coordinator he manages the 35 Engineers, 75 Sub- contractors and nearly 700 labourers

AIM

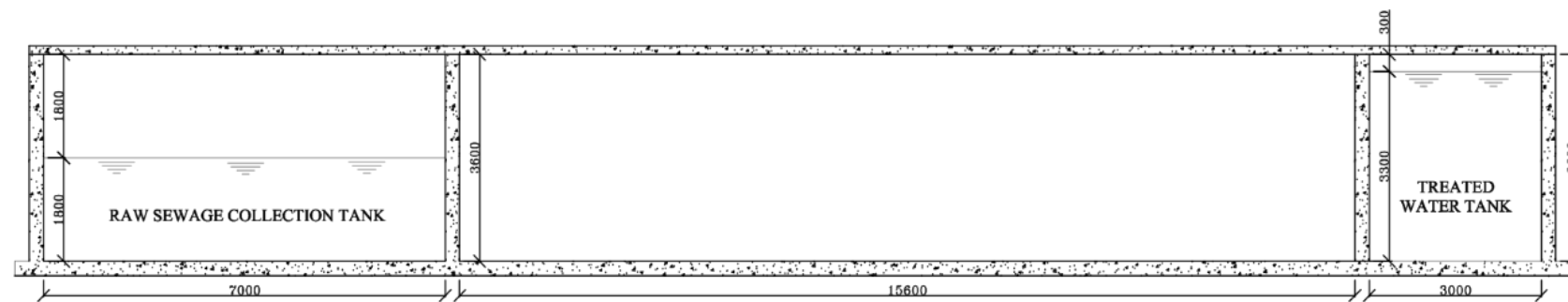
To create a culture within our company that will in turn create quality-minded employees and then top-quality performance. Akash Construction Company seek to DELIGHT the customers by integrating total quality process throughout the firm, and become the premier provider of construction services, and our customers will be astounded. By continuously improving performance, and to provide their customers with outstanding project performance. And gain distinction through quality. The Management and all our employees are wholly committed to seeing that this total quality process is successful here at ACC.

SEWAGE TREATMENT PLANT - LAYOUT

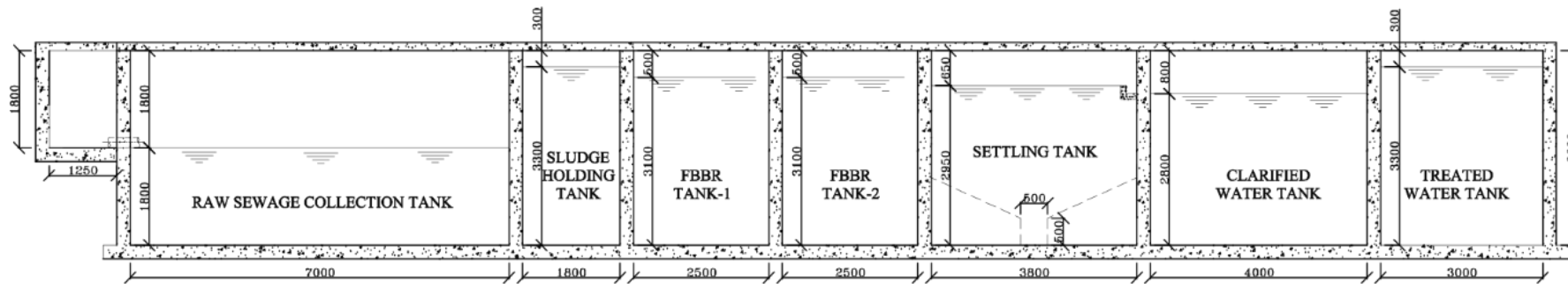
JUBITER HOMES, MADURAI



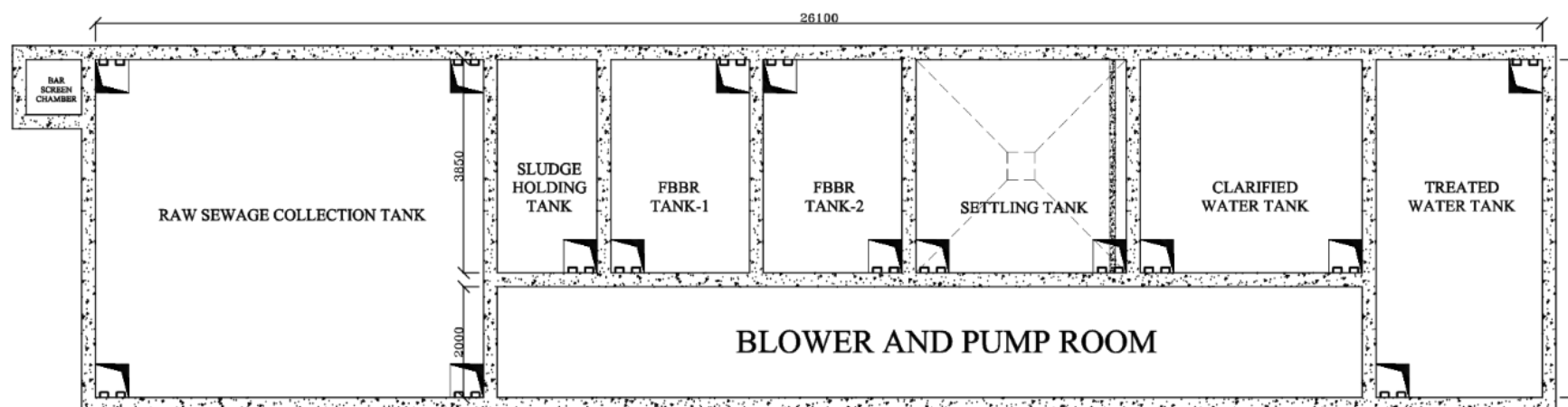
PLAN VIEW AT TO OF TANK LEVEL



SECTION A-A

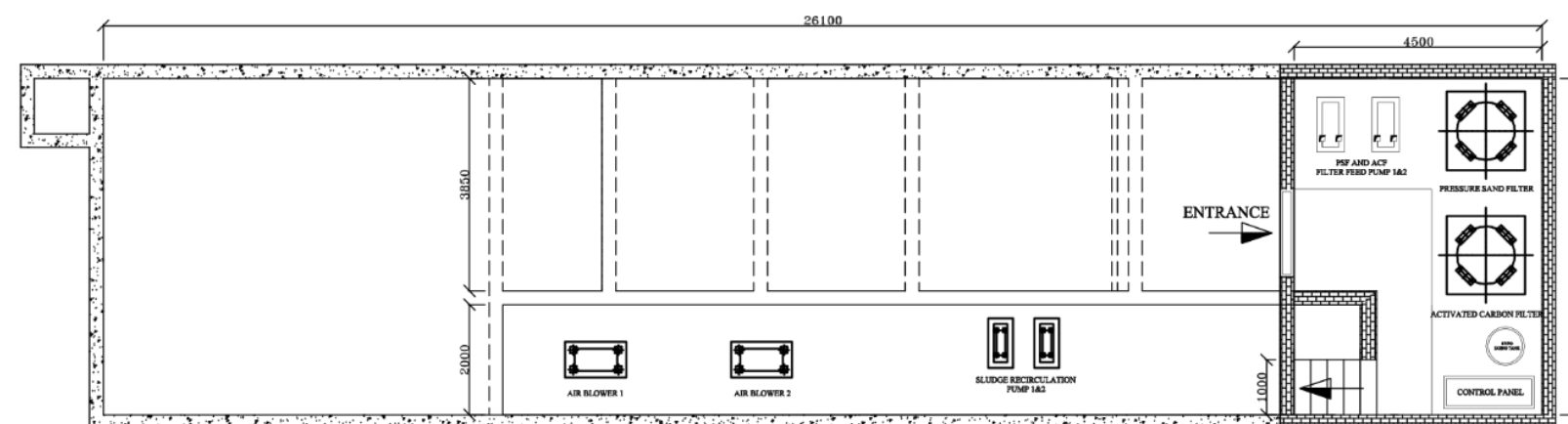
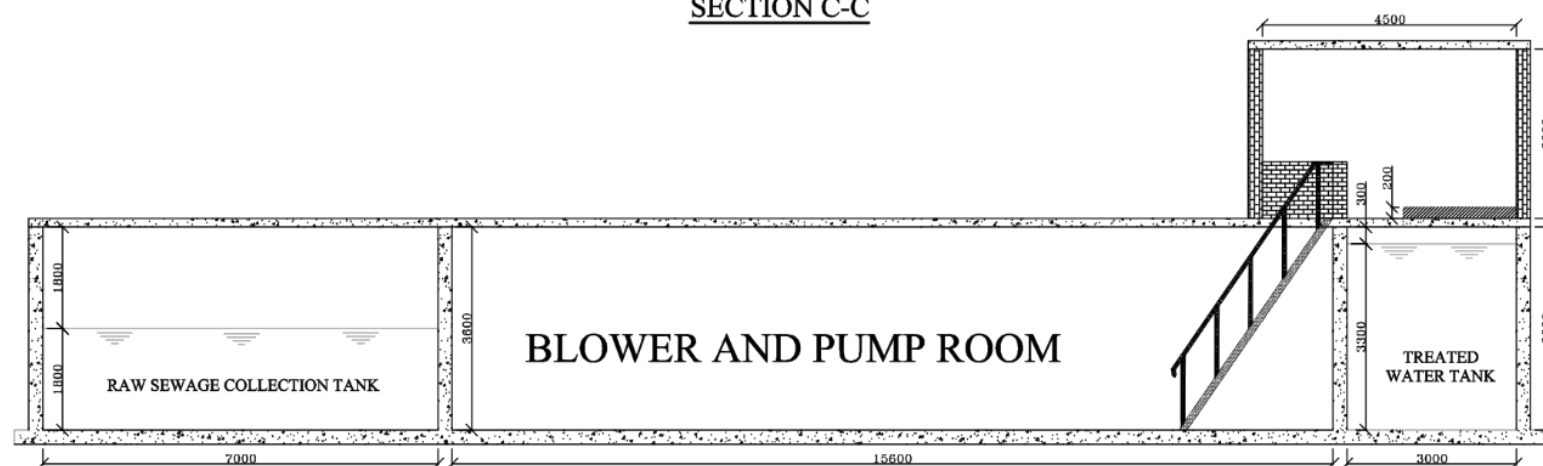
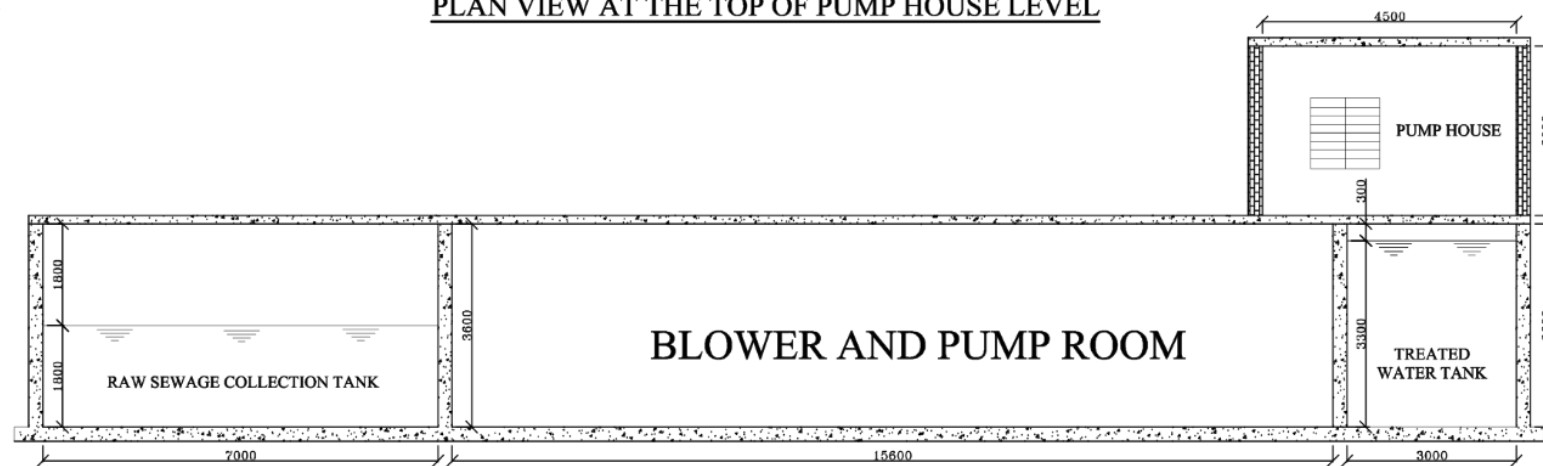
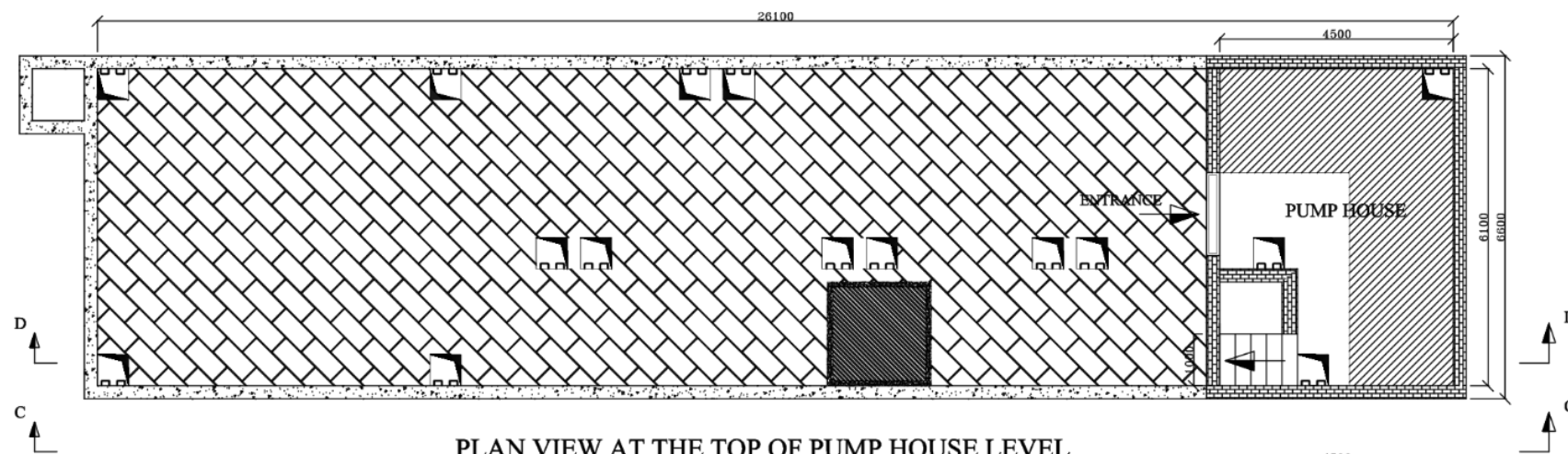


SECTION B-B



MAN HOLE DETAILS

LIST OF CIVIL UNITS					
TAG	DESCRIPTION	SIZE	CAPACITY	MOC	QTY
BSC	BAR SCREEN CHAMBER	1.00 x 1.00 x 1.80 DEPTH	-----	-----	1 NO
RSCT	RAW SEWAGE COLLECTION TANK	7.00 x 6.10 x 1.80 LD + 1.80 FB	76.86 CUM	RCC	1 NO
FBBR-1	FBBR TANK-1	2.50 x 3.85 x 3.10 LD + 0.50 FB	30.80 CUM	RCC	1 NO
FBBR-2	FBBR TANK-2	2.50 x 3.85 x 3.10 LD + 0.50 FB	30.80 CUM	RCC	1 NO
ST	SETTLING TANK	3.80 x 3.85 x 2.95 LD + 0.65 FB	43.15 CUM	RCC	1 NO
CWT	CLARIFIED WATER TANK	4.00 x 3.85 x 2.80 LD + 0.80 FB	43.12 CUM	RCC	1 NO
TWT	TREATED WATER TANK	3.00 x 6.10 x 3.30 LD + 0.30 FB	60.39 CUM	RCC	1 NO
SHT	SLUDGE HOLDING TANK	1.80 x 3.85 x 3.30 LD + 0.30 FB	22.86 CUM	RCC	1 NO



LIST OF CIVIL UNITS					
TAG	DESCRIPTION	SIZE	CAPACITY	MOC	QTY
BSC	BAR SCREEN CHAMBER	1.00 x 1.00 x 1.80 DEPTH	-----	-----	1 NO
RSCT	RAW SEWAGE COLLECTION TANK	7.00 x 6.10 x 1.80 LD + 1.80 FB	76.86 CUM	RCC	1 NO
FBBR-1	FBBR TANK-1	2.50 x 3.85 x 3.10 LD + 0.50 FB	30.80 CUM	RCC	1 NO
FBBR-2	FBBR TANK-2	2.50 x 3.85 x 3.10 LD + 0.50 FB	30.80 CUM	RCC	1 NO
ST	SETTLING TANK	3.80 x 3.85 x 2.95 LD + 0.65 FB	43.15 CUM	RCC	1 NO
CWT	CLARIFIED WATER TANK	4.00 x 3.85 x 2.80 LD + 0.80 FB	43.12 CUM	RCC	1 NO
TWT	TREATED WATER TANK	3.00 x 6.10 x 3.30 LD + 0.30 FB	60.39 CUM	RCC	1 NO
SHT	SLUDGE HOLDING TANK	1.80 x 3.85 x 3.30 LD + 0.30 FB	22.86 CUM	RCC	1 NO

TOILET AREA STATEMENT

JUBITER HOMES, MADURAI

BLOCK A

APARTMENT	TYPES	TOILET TYPE	FLOOR AREA		WASTAGE(15%)		DARK TILE		WASTAGE(15%)		LIGHT TILE		WASTAGE(15%)	HIGH LIGHTER		WASTAGE(15%)	
			Sq.m	Sq.ft	Sq.m	Sq.ft	Sq.m	Sq.ft	Sq.m	Sq.ft	Sq.m	Sq.ft	Sq.m	Sq.m	Sq.ft	Sq.m	Sq.ft
102A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
103A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
105A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
106A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
107A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
108A	TYPE 4	Common Toilet	3.74	40.3	0.561	6.045	6.04	65.01	0.906	0.1359	6.3	63.5	0.945	1.58	17	0.237	2.55
109A	TYPE 4	Common Toilet	3.74	40.3	0.561	6.045	6.04	65.01	0.906	0.1359	6.3	63.5	0.945	1.58	17	0.237	2.55
110A	TYPE 6	Common Toilet	2.8	30.1	0.42	4.515	4.99	53.71	0.7485	0.112275	4.9	51.6	0.735	1.58	17	0.237	2.55
111A	TYPE 8	Common Toilet	4.49	48.32	0.6735	7.248	7.04	75.77	1.056	0.1584	7.4	79.6	1.11	1.58	17	0.237	2.55
112A	TYPE 9	Common Toilet	3.13	33.69	0.4695	5.0535	5.45	58.66	0.8175	0.122625	5.5	59.2	0.825	1.58	17	0.237	2.55
113A	TYPE 11	Common Toilet	3.11	33.47	0.4665	5.0205	5.19	55.86	0.7785	0.116775	5.5	59.2	0.825	1.58	17	0.237	2.55
114A	TYPE 11	Common Toilet	3.11	33.47	0.4665	5.0205	5.19	55.86	0.7785	0.116775	5.5	59.2	0.825	1.58	17	0.237	2.55
115A	TYPE 12	Common Toilet	4.74	51.02	0.711	7.653	6.9	74.27	1.035	0.15525	7.39	79.5	1.1085	1.58	17	0.237	2.55
116A	TYPE 12	Common Toilet	4.74	51.02	0.711	7.653	6.9	74.27	1.035	0.15525	7.39	79.5	1.1085	1.58	17	0.237	2.55
117A	TYPE 12	Common Toilet	4.74	51.02	0.711	7.653	6.9	74.27	1.035	0.15525	7.39	79.5	1.1085	1.58	17	0.237	2.55
118A	TYPE 13	Common Toilet	3.4	36.59	0.51	5.4885	5.64	60.7	0.846	0.1269	5.9	63.5	0.885	1.58	17	0.237	2.55
120A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
121A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
123A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
124A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
125A	TYPE 2	Common Toilet	3.47	37.35	0.5205	5.6025	5.58	60.06	0.837	0.12555	5.9	63.5	0.885	1.58	17	0.237	2.55
126A	TYPE 15	Common Toilet	3.46	37.24	0.519	5.586	5.74	61.78	0.861	0.12915	6.1	65.6	0.915	1.58	17	0.237	2.55
127A	TYPE 15	Common Toilet	3.46	37.24	0.519	5.586	5.74	61.78	0.861	0.12915	6.1	65.6	0.915	1.58	17	0.237	2.55
128A	TYPE 17	Common Toilet	3.89	41.87	0.5835	6.2805	5.98	64.36	0.897	0.13455	6.3	67.8	0.945	1.58	17	0.237	2.55
129A	TYPE 19	Common Toilet	4.56	49.08	0.684	7.362	6.65	71.58	0.9975	0.149625	7.3	78.5	1.095	1.58	17	0.237	2.55
130A	TYPE 19	Common Toilet	4.56	49.08	0.684	7.362	6.65	71.58	0.9975	0.149625	7.3	78.5	1.095	1.58	17	0.237	2.55
131A	TYPE 19	Common Toilet	4.56	49.08	0.684	7.362	6.65	71.58	0.9975	0.149625	7.3	78.5	1.095	1.58	17	0.237	2.55
132A	TYPE 19	Common Toilet	4.56	49.08	0.684	7.362	6.65	71.58	0.9975	0.149625	7.3	78.5	1.095	1.58	17	0.237	2.55
133A	TYPE 19	Common Toilet	4.56	49.08	0.684	7.362	6.65	71.58	0.9975	0.149625	7.3	78.5	1.095	1.58	17	0.237	2.55
134A	TYPE 13	Common Toilet	3.4	36.59	0.51	5.4885	5.64	60.7	0.846	0.1269	5.9	63.5	0.885	1.58	17	0.237	2.55
TOTAL			109.98	1109.85	15.4665	166.4775	161.63	1739.69	24.2445	3.636675	171.67	1837.3	25.7505	42.66	459	6.399	68.85
GRAND TOTAL=(TOTAL AREA+WASTAGE)			125.4465	1276.3275			185.8745	1743.326675			197.4205	1879.96		49.059	527.85		

101A	TYPE 1	Attached Toilet	3.73	40.04	0.5595	6.006	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
102A	TYPE 1	Attached Toilet	3.73	40.04	0.5595	6.006	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
103A	TYPE 3	Attached Toilet	3.75	40.36	0.5625	6.054	6.26	67.38	0.939	10.107	6.6	71.04	0.99	1.58	17	0.237	2.55
104A	TYPE 1	Attached Toilet	3.73	40.04	0.5595	6.006	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
105A	TYPE 1	Attached Toilet	3.73	40.04	0.5595	6.006	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
106A	TYPE 1	Attached Toilet	3.73	40.04	0.5595	6.006	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
108A	TYPE 5	Attached Toilet	3.68	39.61	0.552	5.9415	5.8	62.43	0.87	9.3645	6	64.5	0.9	1.58	17	0.237	2.55
109A	TYPE 5	Attached Toilet	3.68	39.61	0.552	5.9415	5.8	62.43	0.87	9.3645	6	64.5	0.9	1.58	17	0.237	2.55
110A	TYPE 7	Attached Toilet	2.86	30.78	0.429	4.617	4.87	52.42	0.7305	7.863	5.1	54.8	0.765	1.58	17	0.237	2.55
111A	TYPE 5	Attached Toilet	3.51	37.78	0.5265	5.667	5.8	62.43	0.87	9.3645	6	64.5	0.9	1.58	17	0.237	2.55
112A	TYPE 5	Attached Toilet	3.51	37.78	0.5265	5.667	5.8	62.43	0.87	9.3645	6	64.5	0.9	1.58	17	0.237	2.55
113A	TYPE 10	Attached Toilet	3.46	37.24	0.519	5.586	6.9	74.27	1.035	11.1405	7.3	78.5	1.095	1.58	17	0.237	2.55
114A	TYPE 10	Attached Toilet	3.46	37.24	0.519	5.586	6.9	74.27	1.035	11.1405	7.3	78.5	1.095	1.5	17	0.225	2.55
115A	TYPE 10	Attached Toilet	3.46	37.24	0.519	5.586	6.9	74.27	1.035	11.1405	7.3	78.5	1.095	1.58	17	0.237	2.55
116A	TYPE 10	Attached Toilet	3.46	37.24	0.519	5.586	6.9	74.27	1.035	11.1405	7.3	78.5	1.095	1.58	17	0.237	2.55
117A	TYPE 10	Attached Toilet	3.46	37.24	0.519	5.586	6.9	74.27	1.035	11.1405	7.3	78.5	1.095	1.58	17	0.237	2.55
119A	TYPE 1	Attached Toilet	3.73	40.14	0.5595	6.021	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
120A	TYPE 2	Attached Toilet	3.46	37.24	0.519	5.586	5.58	60.06	0.837	9.009	5.9	62.4	0.885	1.58	17	0.237	2.55
121A	TYPE 3	Attached Toilet	3.75	40.36	0.5625	6.054	6.26	67.38	0.939	10.107	6.6	71.04	0.99	1.58	17	0.237	2.55
122A	TYPE 1	Attached Toilet	3.73	40.14	0.5595	6.021	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
123A	TYPE 1	Attached Toilet	3.73	40.14	0.5595	6.021	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
124A	TYPE 1	Attached Toilet	3.73	40.14	0.5595	6.021	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
125A	TYPE 1	Attached Toilet	3.73	40.14	0.5595	6.021	6.16	66.3	0.924	9.945	6.4	68.8	0.96	1.58	17	0.237	2.55
126A	TYPE 14	Attached Toilet	3.74	40.25	0.561	6.0375	6.04	65.01	0.906	9.7515	6.4	68.8	0.96	1.58	17	0.237	2.55
127A	TYPE 14	Attached Toilet	3.74	40.25	0.561	6.0375	6.04	65.01	0.906	9.7515	6.4	68.8	0.96	1.58	17	0.237	2.55
128A	TYPE 16	Attached Toilet	3.14	33.79	0.471	5.0685	5.98	64.36	0.897	9.654	7	75.3	1.05	1.58	17	0.237	2.55
129A	TYPE 18	Attached Toilet	3.32	35.73	0.498	5.3595	5.41	58.23	0.8115	8.7345	5.8	62.4	0.87	1.58	17	0.237	2.55
130A	TYPE 18	Attached Toilet	3.32	35.73	0.498	5.3595	5.41	58.23	0.8115	8.7345	5.8	62.4	0.87	1.58	17	0.237	2.55
131A	TYPE 18	Attached Toilet	3.32	35.73	0.498	5.3595	5.41	58.23	0.8115	8.7345	5.8	62.4	0.87	1.58	17	0.237	2.55
132 A	TYPE 18	Attached Toilet	3.32	35.73	0.498	5.3595	5.41	58.23	0.8115	8.7345	5.8	62.4	0.87	1.58	17	0.237	2.55
133A	TYPE 18	Attached Toilet	3.32	35.73	0.498	5.3595	5.41	58.23	0.8115	8.7345	5.8	62.4	0.87	1.58	17	0.237	
TOTAL			110.02	1183.56	16.503	177.534	187.38	2016.84	28.107	302.526	197.5	2122.68	29.625	48.9	527	7.335	76.5
GRAND TOTAL=(TOTAL AREA+WASTAGE)			126.523	1361.094			215.487	2319.366			227.125	2441.082		56.235	603.5		

COMMON TOILET	AREA(Sq.ft)			ATTACHED TOILET	AREA(Sq.ft)	
	PER FLOOR	FOR 4 FLOORS			PER FLOOR	FOR 4 FLOORS
FLOOR AREA	1276.3275	5105.31		FLOOR AREA	1361.094	5444.376
DARK TILE	1743.32	6973.28		DARK TILE	2319.366	9277.464
LIGHT TILE	2112.895	8451.58		LIGHT TILE	2441.082	9764.328
HIGH LIGHTETR	527.85	2111.4		HIGHLIGHTER	603.5	2414
TOTAL	5660.3925	22641.57		TOTAL	6725.042	26900.168

KITCHEN AREA STATEMENT

JUBITER HOMES, MADURAI

KITCHEN COUNTERTOP	AREA(Sq.m) GRANITE SLAB				AREA(Sq.m) LIGHT TILE				AREA(Sq.m) HIGHLIGHTER TILE			
	PER FLOOR	WASTAGE(15%)	TOTAL	4 FLOORS	PER FLOOR	WASTAGE(15%)	TOTAL	4 FLOORS	PER FLOOR	WASTAGE(15%)	TOTAL	4 FLOORS
101A	2.42	0.363	2.783	11.132	2.48	0.372	2.852	11.408	0.18	0.027	0.207	0.828
102A	2.38	0.357	2.737	10.948	2.45	0.3675	2.8175	11.27	0.18	0.027	0.207	0.828
103A	3.07	0.4605	3.5305	14.122	2.92	0.438	3.358	13.432	0.18	0.027	0.207	0.828
104A	2.38	0.357	2.737	10.948	2.43	0.3645	2.7945	11.178	0.18	0.027	0.207	0.828
105A	2.38	0.357	2.737	10.948	2.43	0.3645	2.7945	11.178	0.18	0.027	0.207	0.828
106A	2.18	0.327	2.507	10.028	2.28	0.342	2.622	10.488	0.18	0.027	0.207	0.828
107A	2.8	0.42	3.22	12.88	2.72	0.408	3.128	12.512	0.18	0.027	0.207	0.828
108A	2.76	0.414	3.174	12.696	2.74	0.411	3.151	12.604	0.18	0.027	0.207	0.828
109A	2.45	0.3675	2.8175	11.27	2.17	0.3255	2.4955	9.982	0.18	0.027	0.207	0.828
110A	2.4	0.36	2.76	11.04	2.15	0.3225	2.4725	9.89	0.18	0.027	0.207	0.828
111A	2.94	0.441	3.381	13.524	2.55	0.3825	2.9325	11.73	0.18	0.027	0.207	0.828
112A	2.02	0.303	2.323	9.292	2.53	0.3795	2.9095	11.638	0.18	0.027	0.207	0.828
113A	1.52	0.228	1.748	6.992	1.5	0.225	1.725	6.9	0.18	0.027	0.207	0.828
114A	1.52	0.228	1.748	6.992	1.5	0.225	1.725	6.9	0.18	0.027	0.207	0.828
115A	2.26	0.339	2.599	10.396	2.05	0.3075	2.3575	9.43	0.18	0.027	0.207	0.828
116A	2.39	0.3585	2.7485	10.994	2.13	0.3195	2.4495	9.798	0.18	0.027	0.207	0.828
117A	2.35	0.3525	2.7025	10.81	2.11	0.3165	2.4265	9.706	0.18	0.027	0.207	0.828
118A	2.17	0.3255	2.4955	9.982	1.98	0.297	2.277	9.108	0.18	0.027	0.207	0.828
119A	2.37	0.3555	2.7255	10.902	2.13	0.3195	2.4495	9.798	0.18	0.027	0.207	0.828
120A	2.35	0.3525	2.7025	10.81	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
121A	2.96	0.444	3.404	13.616	2.57	0.3855	2.9555	11.822	0.18	0.027	0.207	0.828
122A	2.31	0.3465	2.6565	10.626	2.09	0.3135	2.4035	9.614	0.18	0.027	0.207	0.828
123A	2.35	0.3525	2.7025	10.81	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
124A	2.38	0.357	2.737	10.948	2.13	0.3195	2.4495	9.798	0.18	0.027	0.207	0.828
125A	2.29	0.3435	2.6335	10.534	2.07	0.3105	2.3805	9.522	0.18	0.027	0.207	0.828
126A	2.07	0.3105	2.3805	9.522	1.9	0.285	2.185	8.74	0.18	0.027	0.207	0.828
127A	2.35	0.3525	2.7025	10.81	2.39	0.3585	2.7485	10.994	0.18	0.027	0.207	0.828
128A	3.08	0.462	3.542	14.168	2.6	0.39	2.99	11.96	0.18	0.027	0.207	0.828
129A	2.38	0.357	2.737	10.948	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
130A	2.38	0.357	2.737	10.948	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
131A	2.28	0.342	2.622	10.488	2.06	0.309	2.369	9.476	0.18	0.027	0.207	0.828
132A	2.38	0.357	2.737	10.948	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
133A	2.38	0.357	2.737	10.948	2.14	0.321	2.461	9.844	0.18	0.027	0.207	0.828
134A	2.2	0.33	2.53	10.12	2.1	0.315	2.415	9.66	0.18	0.027	0.207	0.828
TOTAL	78.59	11.7885	90.3785	361.514	73.91	11.0865	84.9965	339.986	5.94	0.891	6.831	27.324

KITCHEN	AREA IN SQ.M
GRANITE SLAB	361.514
LIGHT TILE	339.986
HIGHLIGHTER TILE	27.324

CAR PARKING AREA STATEMENT

JUBITER HOMES, MADURAI

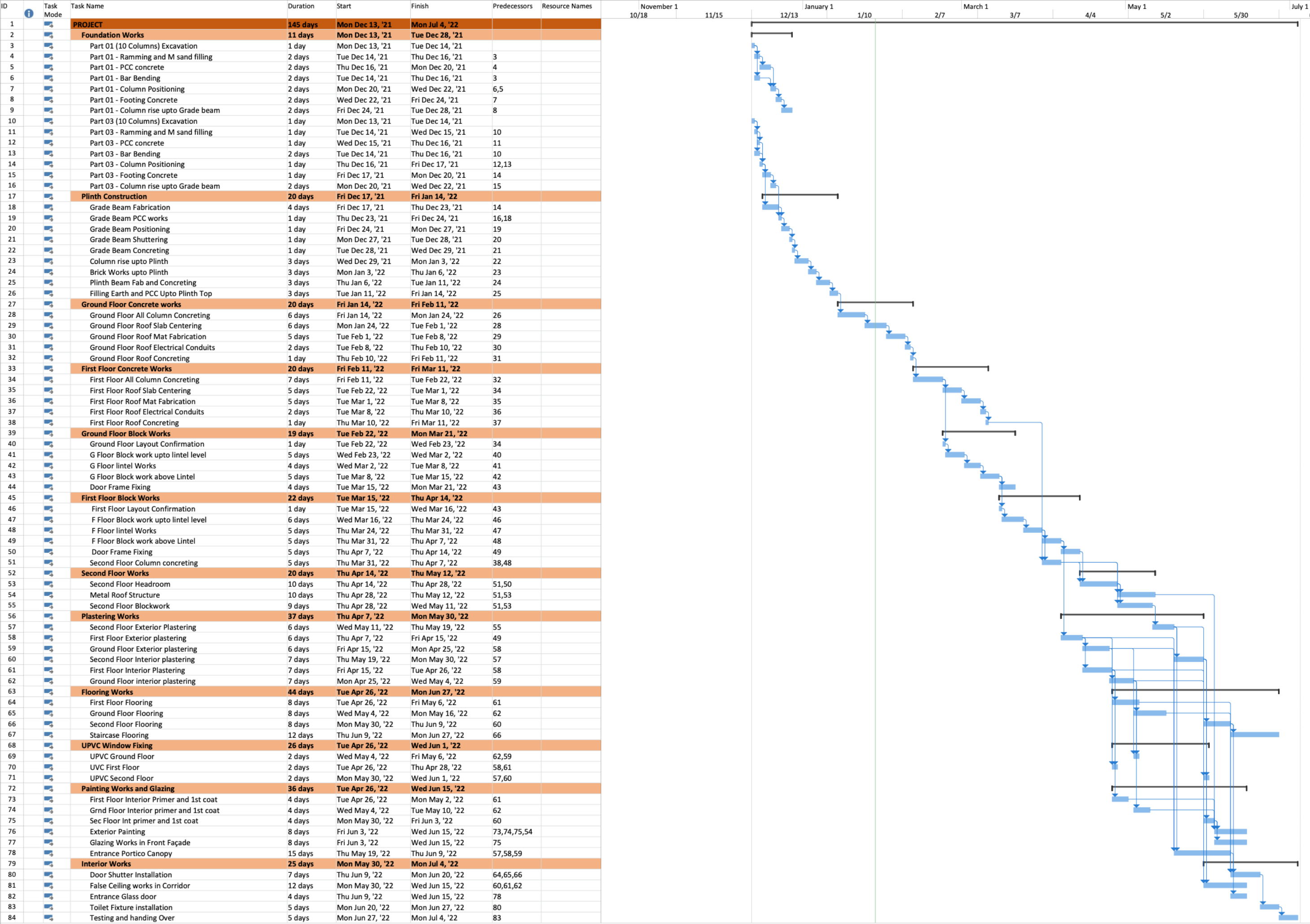
BLOCK -A	
DESCRIPTION	
TOTAL COVERED AREA (SQ.M)	3107.209 Sq.m
NO. OF COVERED CAR PARKING	81 NOS
TOTAL AREA OF COVERED CAR PARKING	801.9 Sq.m
CARPET AREA	2448.33 Sq.m

BLOCK -B	
DESCRIPTION	
TOTAL COVERED AREA (SQ.M)	634.5 Sq.m
NO. OF COVERED CAR PARKING	17 NOS
TOTAL AREA OF COVERED CAR PARKING	170Sq.m
CARPET AREA	0Sq.m

BLOCK -C	
DESCRIPTION	
TOTAL COVERED AREA (SQ.M)	577.14 Sq.m
NO. OF COVERED CAR PARKING	18 NOS
TOTAL AREA OF COVERED CAR PARKING	180Sq.m
CARPET AREA	579.8 Sq.m

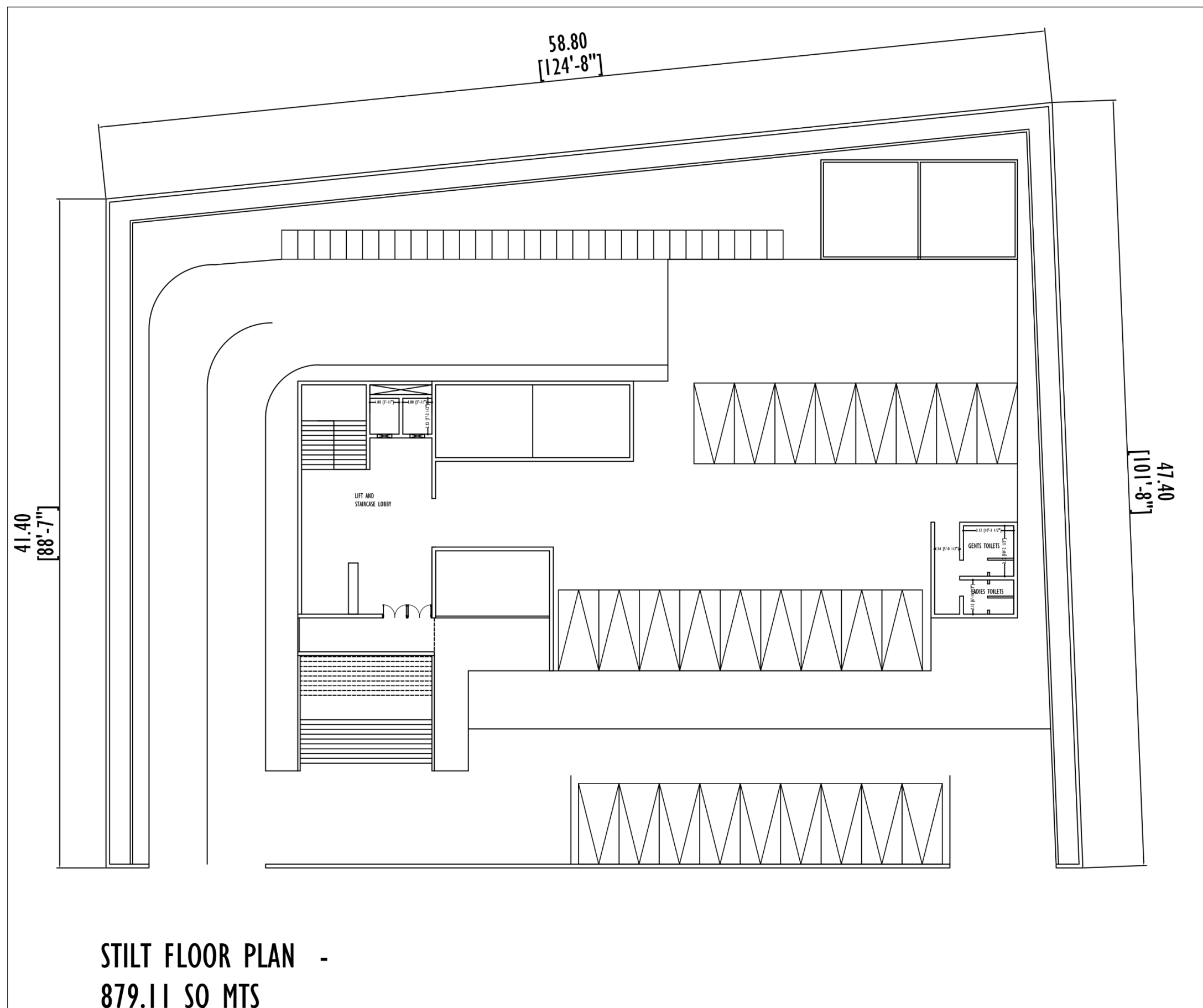
PARKING				
BLOCK	FOUR WHEELER		TWO WHEELER	
	NUMBERS	AREA(Sq.m)	NUMBERS	AREA(Sq.m)
BLOCK A	81	801.9	156	312
BLOCK B	17	168.3	15	30
BLOCK C	18	178.2	14	28
BLOCK D	19	188.1	37	74
BLOCK E	15	148.5	16	32
BLOCK F	68	673.2	60	120
OPEN PARKING	34	336.6		

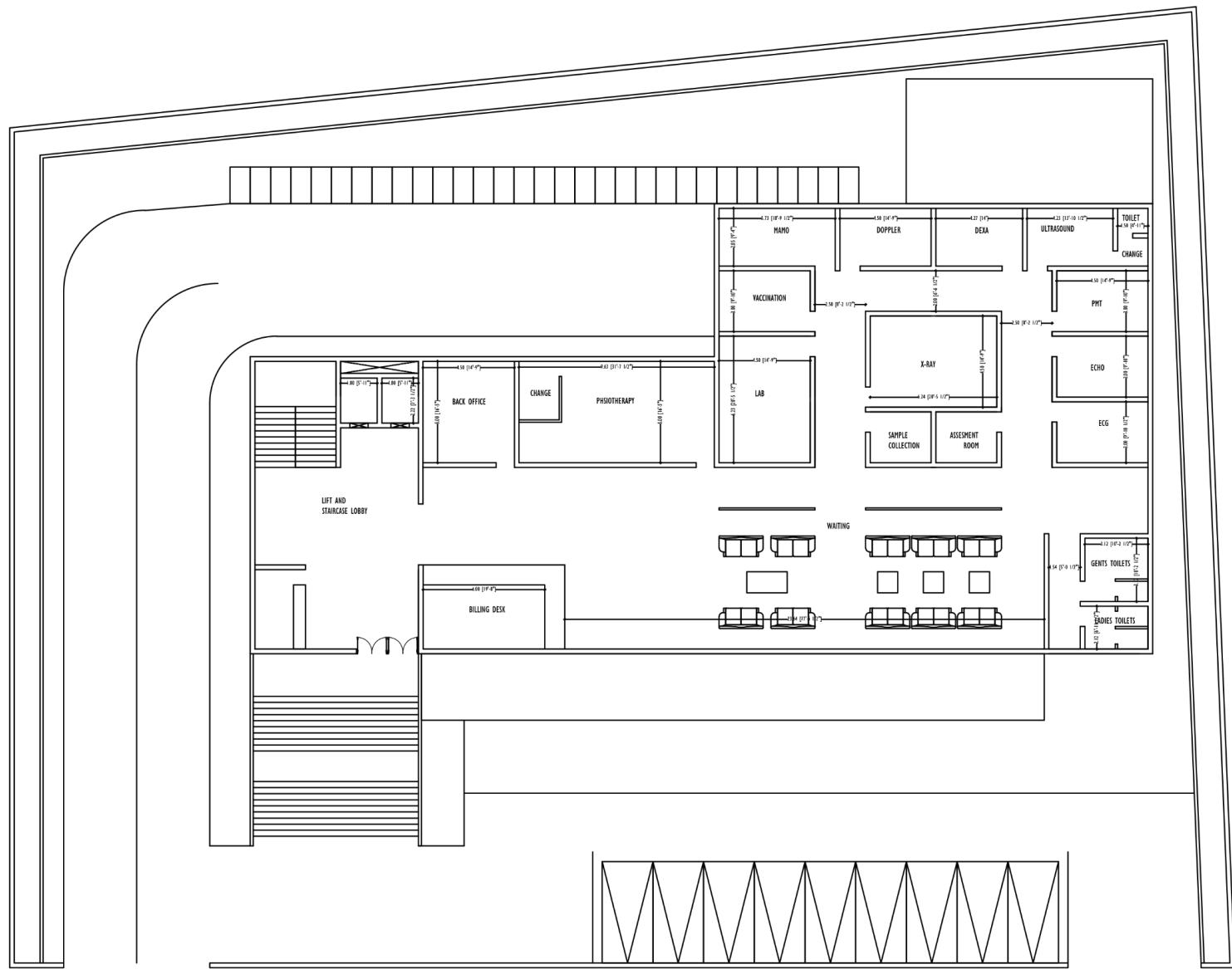
VIKRAM SCHOOL
VILLAPURAM, MADURAI



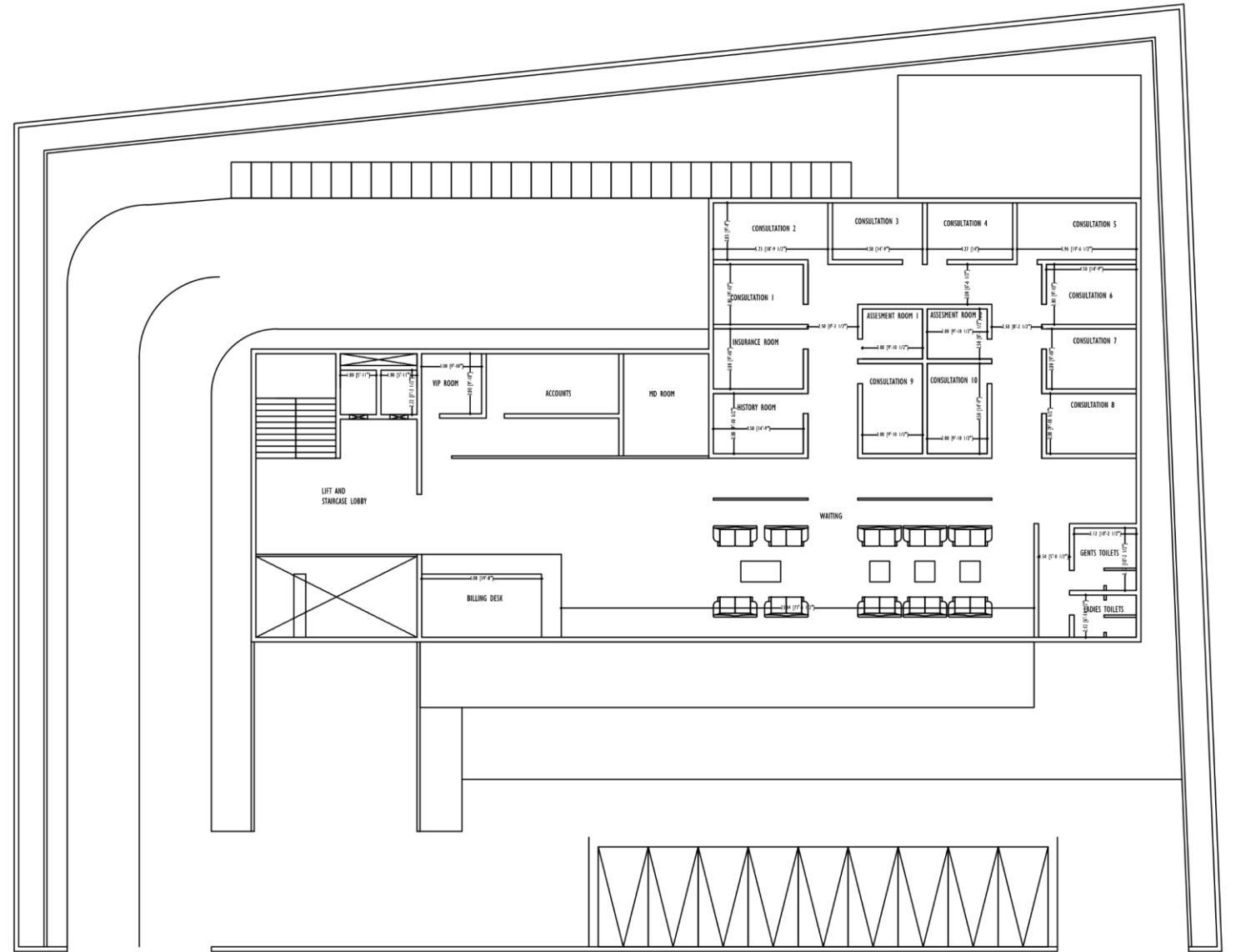
FLOOR PLAN LAYOUT- PROPOSED HOSPITAL

SAMAYANALLUR, MADURAI

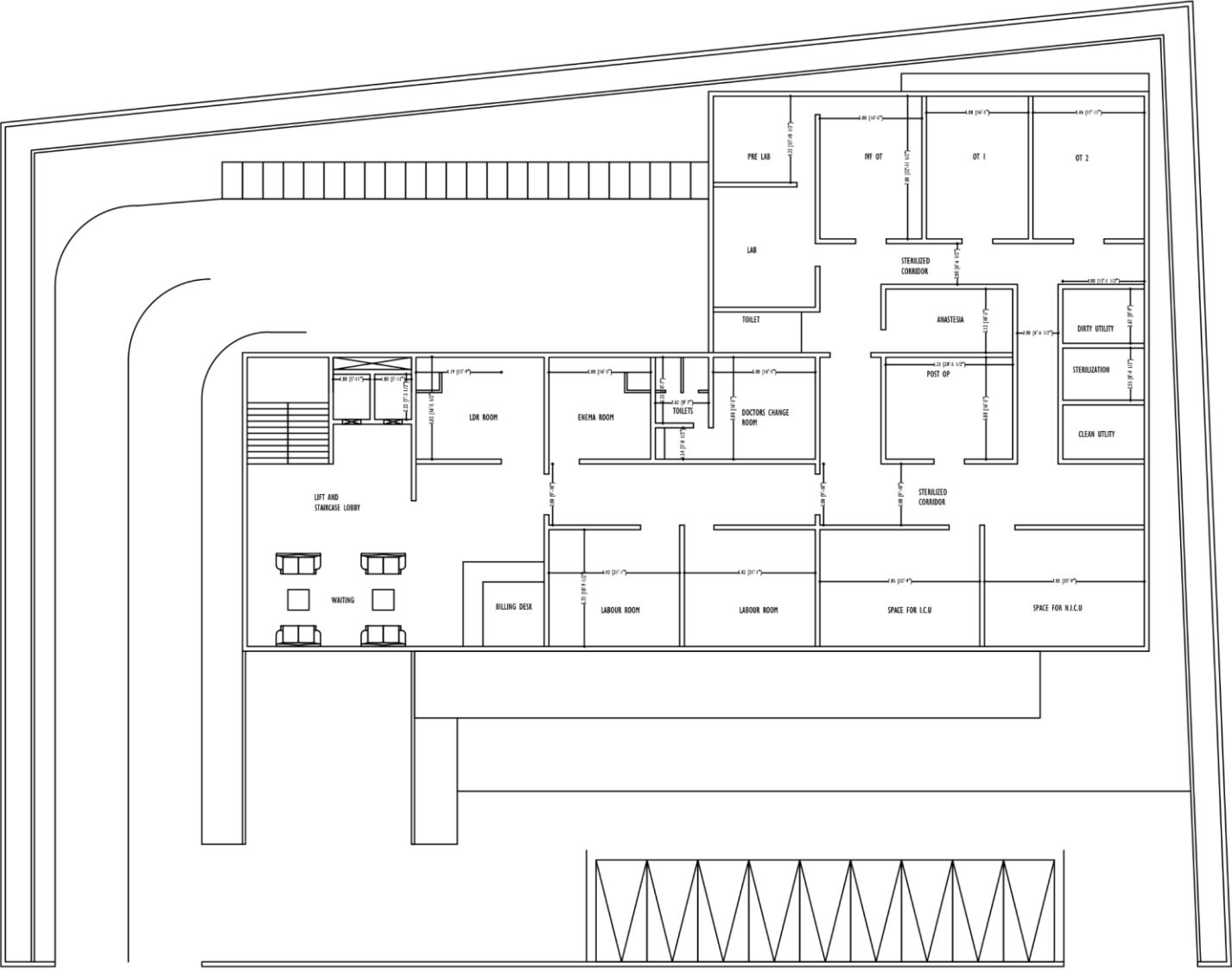




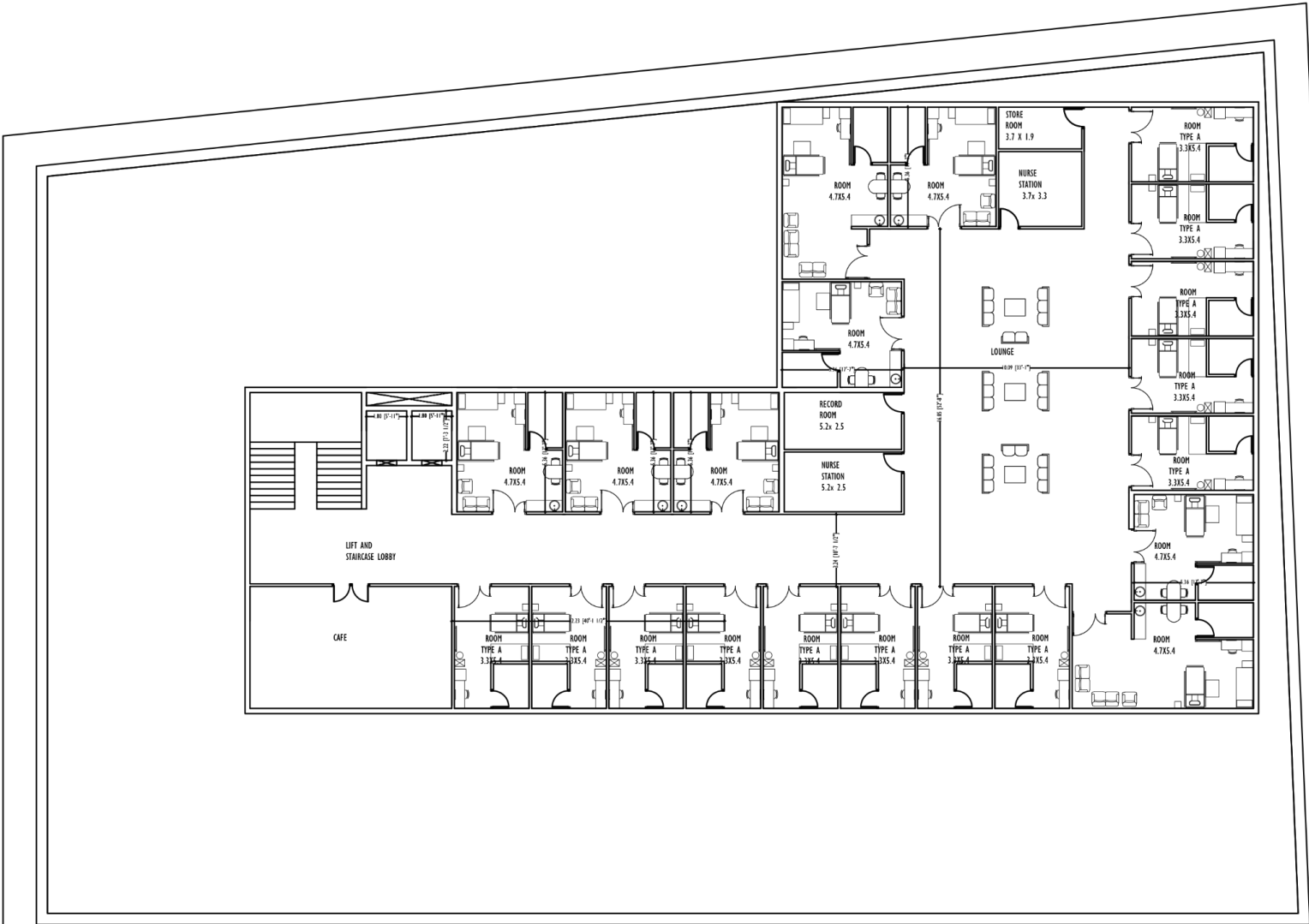
FIRST FLOOR PLAN -
804.39 SQ MTS



SECOND FLOOR PLAN -
851.75 SQ MTS



THIRD FLOOR PLAN -
918.21 SQ MTS



FOURTH FLOOR PLAN -
918.21 SQ MTS

BOQ - PROPOSED HOSPITAL

SAMAYANALLUR, MADURAI

PROPOSED HOSPITAL, MADURAI

ABSTRACT

S.no	Description of work	Quantity	Rate	Total Amount
A	Earth work	1055.35	Combined cost	Rs. 1,016,903.25
C	Concrete work	1769.036611	6000.00	Rs. 10,614,219.67
D	Steel & fabrication	40	62000.00	Rs. 2,480,000.00
E	Brick work	2285.763266	5000.00	Rs. 11,428,816.33
F	Plastering	200189.72	40.00	Rs. 8,007,588.80
G	Flooring	75000	130.00	Rs. 9,750,000.00
H	Joinery	9597	Combined cost	Rs. 27,437,950.00
I	Painting	200189.72	45.00	Rs. 9,008,537.40
J	Miscellaneous	40798	Combined cost	Rs. 4,113,200.00
K	Total civil work			Rs. 83,857,215.45
	Electrical work (Total civil work 10%)			Rs. 8,385,721.54
	Plumbing work (Total civil work 8%)			Rs. 6,708,577.24
	Elevation features (incl. of ACP cladding, glazing, projects etc..)	30000.00	650.00	Rs. 19,500,000.00
	Grand total			Rs. 118,451,514.23

PROPOSED HOSPITAL, MADURAI					
ESTIMATE					
DESCRIPTION	UNITS	QUANTITY	quantity (sqm & cum)	RATE	AMOUNT
EARTH WORK					
EXCAVATION IN FOOTING	CFT	15552.00		9	139968
EXCAVATION PLINTH BEAM	CFT	1169.66		8	9357.3
SAND FILLING FOOTING	CFT	9842.40		50	492120
SAND FILLING PLINTH BEAM	CFT	10727.37		35	375457.95
SUB TOTAL		37291.43	1055.35		1016903.25
PCC					
FOOTING	CFT	777.60		130	101088
STILT FLOOR LEVEL	CFT	7892.55		130	1026031.5
BRICK WORK ABOVE GL TO SFL	CFT	4673.01		150	700951.875
SUB TOTAL		13343.16			1828071.375
R.CC WORK					
COLUMN FOOTING	CFT	5709.60		170	970632
PLINTH BEAM	CFT	7149.46		150	1072418.265
COLUMN	CFT	666.23		170	113258.25
SLAB	CFT	13165.29		140	1843139.9
BEAMS	CFT	6238.20		150	935730
LINTEL BEAM	CFT	6238.20			
STAIRCASE	CFT	10000.00		120	1200000
SUB TOTAL		49166.97			6135178
TOTAL CONCRETE		62510.13	1769.04		7963250
STEEL					
STEEL	TON	40.00		62000	2480000
SUB TOTAL					2480000
BRICK WORK					
9" BRICK WORK	CFT	45565.21		155	7062608
4.5" BRICK WORK	SFT	35203.81		80	2816304.8
SUB TOTAL		80769.02	2285.76		9878912
JOINERY					
WINDOWS					
W (UPVC MADE) (6'-0" X 6'-0") - 123 NOS	SFT	4428.00		650	2878200
V (2'-6" X 2'-0") - 55 NOS	SFT	275.00		650	178750
SUB TOTAL		4703.00			3056950

DOORS					
MD - (5'0" -8'-0") - 2 NOS	SFT	80.00		2000	160000
FLUSH DOOR(3'-0" X 7'-0") - 134 NOS	SFT	2814.00		1500	4221000
DOUBLE DOOR (5'-0" X 8'-0") - 50 NOS	SFT	2000.00		10000	20000000
SUB TOTAL		4894.00			24381000
TOTAL JOINERY		9597.00	891.56		27437950
FLOORING					
VITRIFIED	SFT	70000.00		150	10500000
SUB TOTAL					10500000
SKIRTING					
VITIRIFIED	RFT	5000.00		40	200000
TOTAL FLOORING		75000.00	6967.50		200000
					10700000
PLASTERING					
EXTERNAL	SFT	30958.72		21	650133.12
INTERNAL	SFT	105875.00		18	1905750
CEILING	SFT	63356.00		20	1267120
SUB TOTAL		200189.72	18597.62		3823003.12
PAINTING					
EXTERNAL	SFT	30958.72		17	526298.24
INTERNAL	SFT	105875.00		22	2329250
CEILING	SFT	63356.00		13	823628
SUB TOTAL		200189.72	18597.62		3679176.24
TOTAL					66979195
MISCELLANEOUS					
U.G SUMP 20000 LTRS CAPACITY INCLUDING ALL WORKS (R.C.C WALL)	LTRS	20000.00		20	400000
STP - 20000	LTRS			45	1500000
COMPOUND WALL	RFT	798.00		2100	1675800
OVER HEAD TANK	LTRS	20000.00		20	400000
EXTERNAL PAVING	RFT	1374.00		100	137400
SUB TOTAL		40798.00			4113200
ELEVATION FEATURE	SQFT	30000.00		650	19500000
GRAND TOTAL					71092394.75

CHECKLIST

RCC works before Concreting

SL No	Check Points	Yes	No	Remarks/Clarification
1	Reinforcement checking	YES		
2	is spacings of main reinforcement as per drawing?	YES		
3	is spacings of distribuion reinforcement as per drawing?	YES		
4	checking of cover block	YES		
6	the concreting surface is found cleaned.		NO	
7	materials preparation done before concreting	YES		
8	Is the beams side shuttering is found numbered for using the same in all the first floors?.	YES		
9	The Alignment, level, plumb maintained correctly during each stage/before/after concreting?.	YES		
10	shutering alignment check	YES		
12	Whether correct proportion of of Skilled : Unskilled is employed at site?.	Verified By		

Checked By :-

Barbending works

SL No	Check Points	Yes	No	Remarks
1	Is the Cutting and Bending of Reinforcements are based on the Bar Cutting & Bar Bending schedule?.	Yes		
2	Is the actual provided hooks, bends, cover of reinforcement, lap length, spacing, diameter of bars is found OK with the schedule and structural drawing?		NO	
3	Sample model of stirrups of beams should be kept at site?.		NO	
4	Reinforcement properly stored yard in such a way as to avoid distortion and prevent corrosion & deterioration?	Yes		
5	For storage, Bars stacked above ground level by at least 150mm?	Yes		
6	Bars of different classification, sizes, lengths are stored separately?		NO	
7	Separate space / scrap yard for kept the scrap material , it have an enclosure?.		NO	
8	The measurements are taken after placing of reinforcement in position.	Yes		
9	Measurements entered based on the proportion of completion of work?		NO	
10	The wastage of cutting of bars are obtained same as in bar cutting schedule?.	Yes		
11	The Quantity of daily stock issue of steel with actual daily work done measurement is found OK,and is found cleared in stock register?	Yes		
13	Whether correct proportion of of Skilled : Unskilled is employed at site?.	Yes		

Checked By :-

Verified By

RCC works after Concreting

SL No	Check Points	Yes	No	Remarks/Clarification
1	All defects in RCC Works such as leaching, bulging, honey comb etc..are cleared?	YES		
2	All the patch works in RCC structures, Chipping works etc.. are completed?	YES		
3	The Issued stock of materials with theoretical usage of materials is found OK?		NO	
4	Whether size of RCC structures are same as in structural drawings?	YES		
6	The daily Working area is found cleaned, house keeping done properly after the completion of works?.	YES		
7	Empty cement bags are returned to site store neatly?		NO	
8	Is the beams side shuttering is found numbered for using the same in all the typical floors?.	YES		
9	The Alignment, level, plumb maintained correctly during each stage/before/after concreting?.	YES		
10	Is the Concrete mix placed before the initial setting time of cement?.	YES		
12	Whether correct proportion of of Skilled : Unskilled is employed at site?.	YES		
13	Whether proper curing provided for RCC Works?	YES		

Checked By :-

Verified By

Shuttering Works

SL No	Check Points	Yes	No	Remarks/Clarification
1	Shuttering and De-shuttering entered separately?	Yes		
3	Formwork items kept clean properly after De-shuttering?	Yes		
4	The work area found cleaned, house keeping done properly after the completion of shuttering works?		No	
5	Un billed quantity of shuttering items if any in the billed portion?		No	
6	Gaps closed in between the shuttering of slab, beam bottom, beam sides and in the junction of column and beam to prevent leakage of slurry?		No	
7	The Beam sides and column sides based on the Formwork cutting drawing?	Yes		
8	Grout,dust,dirt cleaned immediately from formwork items?	Yes		
9	If any damaging due to careless de-shuttering, is found rectified?		No	
10	The level of form work cross-checked with leveling instrument in reference to the Reduced Level to ensure the thickness and top level of Concrete is found OK?		No	
11	Formwork dimensions,plumb,alignment,parallelism and squareness is found OK?	Yes		
13	Whether correct proportion of of Skilled : Unskilled is employed at site?	Yes		

Checked By :-

Verified By

Plastering

SL No	Check Points	Yes	No	Remarks/Clarification
1	Whether the plastering level pads are fixed as per plumb, line and right angle in corners?	Yes		
2	Is the surface is wet, free from dust, oil & all forms of contaminations?	Yes		
3	Whether the Mortar consumption ensured within the one hour of mixing?	Yes		
4	Whether the Corners finished with special care using Straight edge/Spirit Level?	Yes		
5	The splitted mortar is collected and is reused immediately before break time/lunch/evening?	Yes		
6	Whether all switch boxes covered by dummy plates/thermocol sheets?		No	
7	Is the line,level,plumb and finished properly?	Yes		
8	Whether the dried mortar has cleaned off the wall, floor surface, MS grills, door frame & windows etc?	Yes		
9	Removal of Bull mark after Plastering is done?	Yes	No	HALF DONE
10	All patch works completed for the Billed portion?	Yes		
11	Daily issue of material consumption with theoretical consumption is found OK?	Yes		
12	Whether the working area is cleaned, house keeping done properly after the completion of works ?	Yes		
12	Whether correct proportion of of Skilled : Unskilled is employed at site.	Yes		
13	Empty cement bags are returned to site store neatly?	Yes		
16	Whether proper curing provided?	Yes		

Checked By :-

Verified By

Painting

SL No	Check Points	Yes	No	Remarks/Clarification
1	Is the Surface preparation done properly? All Masonry Surface, Voids, Pores and Cracks are filled with Filler?.	Yes		
2	Is the Dilution of Paint is done as per Specifications?	Yes		
3	whether the Painting Surface is Clean and Sound?	Yes		
4	Whether the Floor protected with Plastic Sheet before starting Painting works?	Yes		
5	Usage of Correct Undercoats done?	Yes		
6	Correct Paint are used in Specified Areas ?	Yes		
7	Uniformity of Thickness for application of each coat of Paint is found OK?		No	
8	Whether the Each coat of Paint is of Clear Finish ? i.e., Uniformity in Color & Texture?	Yes		
9	Whether the Wooden Surface is free from Loose Dust?		No	
10	All Nail Holes, Cracks and other defects in Wood Surface are properly Filled and Smoothed?		No	
11	Sand Paper or Wire Brush used to remove Rust, Grease, Oil etc. on Steel Surfaces?	Yes		
12	Upto to date cleaning of painted surface from Paint drops, Brush marks, Hand Print etc.?		No	
13	Upto to date cleaning of paint drops from glass, tiles etc..?	Yes		
14	Edges, Corners, Gaps, cracks, Joints etc. are painted properly?	Yes		
15	Whether any difficulty in Opening & Closing of Joineries?		No	
16	Is the Painting properly done on Top & Bottom of Joineries?	Yes		
17	Any Visible defects found?		No	
18	Daily issue of material consumption with theoretical consumption is found OK?		No	
19	Whether the working area is cleaned, house keeping done properly after the completion of works ?	Yes		
21	Whether correct proportion of of Skilled : Unskilled is employed at site?		No	

Checked By :-

Verified By

Tile

SL No	Check Points	Yes	No	Remarks/Clarification
1	Rooms are cleaned before Tiling ?	Yes		
2	Whether the proper watering provided for ceramic tiles before use?	Yes		
3	Is the Bull mark/Height indicators are fixed properly?	Yes		
4	Is thickness of mortar bed is in Plumb and True Alignment?	Yes		
5	Right angle ensured at the corners of Tiles Surface?	Yes		
6	Whether laying of tile is based on the tile profile drawing which is verified by PE?		No	
7	Any Scratches/ Undulations found?	Yes		
8	whether the chamfered area in tile works are done proper?.		No	
9	whether the Pointing works are neat?		No	
10	Whether the workers avoid Walking on newly laid Tile for 24 Hours for proper Top Level Finish?		No	
11	The daily stock Issue of tile with Daily productivity of work is Found OK?	Yes		
12	Is the Waste pieces of tile is effectively used?	Yes		
13	whether the wastage of tile is with in minimum allowable limit?	Yes		
14	All patch works in the billed area is completed?	Yes		
15	The working area is cleaned, house keeping done properly after the completion of works ?	Yes		
17	Whether correct proportion of of Skilled : Unskilled is employed at site.	Yes		
18	Empty cement bags are returned to site store neatly?	Yes		
19	Proper Curing of Minimum 7 days is provided ?	Yes		

Checked By :-

Verified By

SITE PHOTOS





