



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)
JUL 2022 - AUG 2022**

Name of the Student : Sharina Mary Nikitha. S

Semester : III

Reg No. : 41840013

Batch : 2021-2023



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DEPARTMENT OF ARCHITECTURE

M. Arch (Building management)

VIVA-VOCE EXAMINATION

This is to certify that the Professional Training Report (S84APT) is the work of **SHARINA MARY NIKITHA. S** who had undergone training in **EPMCR Pvt. Ltd.** and has been monitored by the continuous assessment during Jul 2022 to Aug 2022.

Dr. Devyani Gangopadhyay
HOD AND DEAN

Submitted for Viva voce Examination held on 20.12.22

Internal Examiner
(A. RAMESH KUMAR)

External Examiner
(A. DEVI PRASADH)



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DECLARATION

I **SHARINA MARY NIKITHA. S** hereby declare that this Professional Training Report for **30 Days (from July 7th to August 10th)** done by me under the guidance of **MR. KAVIN KUMAR. S** is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 20/12/2022

PLACE : Chennai



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 the director of EPMCR, **Mr. Kavın Kumar.S** 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 our Internal coordinator **Ar. Surya Rajkumar** 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.

I would also like to express my gratitude to **Mr. Vınoth Kumar, Mr. Durairajan and others in the firm** for their guidance, knowledge sharing and encouragement throughout the training period.

BONAFIDE CERTIFICATE



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Date: 11.05.2022

TO WHOMSOEVER IT MAY CONCERN

SHARINA MARY NIKITHA S (Reg No- 41840013) is a bonafide student of our institution pursuing Masters in Architecture in Building Management (Batch 2021-2023). As part of the curriculum the students are required to undergo Professional Training for a minimum period of 30 working days. Kindly grant permission for the same in your esteemed organization. We also assure that information collected about any project will be used for academic purpose only.

Thanking You,

Dr. Devyani Gangopadhyay

Dean, School of Building & Environment

JEAN
SCHOOL OF BUILDING & ENVIRONMENT
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeyapoor Nagar, Rajiv Gandhi Salai,
Chennai - 600 119.

CONFIRMATION LETTER



CREATING VALUES FOR YOUR INVESTMENT
An IIT Madras Incubated
Construction Technology Company

Reference no. EPMCR/Internship/2022-23/07/04
Date: 05th July 2022

To

Ms. Sharina Mary Nikita S
No. 3, Bharathidasan Street
Irumbuliyur
Tambaram
Chennai - 600 045
Mail Id: sharina.js5797@gmail.com
Mobile: 99444 63349

Subject: Confirmation of Internship in our organization - 2022-23 - reg.
Ref: Your Reg. No. 41840013 Sathyabama Campus, Chennai

Dear Ms. Sharina Mary,

This is to confirm you that, you are selected for the Internship Program in our organization from **07.07.2022 to 10.08.2022 (4 Weeks)**.

The period of internship contains the subject of Advance Construction Management and Project Management Consultancy and others which relates.

The internship period will be completed on submission of Report based on your learning through the internship. This report should submit to our Director and the completion certificate will be issued based on his approval.

Thanks & regards,

for Engineering Project Management Consultancy & Research Pvt. Ltd.,

(S Sekar Mahalingam)
HR & Admin.



Engineering Project Management Consultancy and Research Pvt. Ltd.



No. 2B, 1st Floor, Balaji Nagar Main Road, Bharathi Avenue, New Perungalathur, Chennai - 600 063.

MONTHLY REPORT



SATHYABAMA
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SCHOOL OF BUILDING & ENVIRONMENT, DEPARTMENT OF ARCHITECTURE
M. Arch (Building management) Batch 2021-2023

Continuous Assessment Report for Professional training

1. Name of the office / organization	: EPMCR Pvt. Ltd.
2. Address & Contact Number	: No.2B, 1 st Floor, Balaji Nagar Main Rd, Perungalathur, Tamil Nadu - 600063
3. Name of the student	: Sharina Mary Nikitha. S
4. Duration	: From: 07/07/2022 To: 23/07/2022
5. Total No. of days	: 15 days
6. Evaluation of Performance criteria shall be on	

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

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

S. Kumar



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Continuous Assessment Report for Professional training

1. Name of the office / organization	: EPMCR Pvt. Ltd.
2. Address & Contact Number	: No.2B, 1 st Floor, Balaji Nagar Main Rd, Perungalathur, Tamil Nadu - 600063
3. Name of the student	: Sharina Mary Nikitha. S
4. Duration	: From: 25/07/2022 To: 10/08/2022
5. Total No. of days	: 15 days
6. Evaluation of Performance criteria shall be on	

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

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

S. Kumar



WORK DIARY

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
07/07/22	GT Electronic India Pvt Ltd	Understanding the project, its scope and drawing	21/07/22	Polyhose, Sungachatram	A3 Design Thinking
08/07/22	GT Electronic India Pvt Ltd	Site visit	22/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring
09/07/22	GT Electronic India Pvt Ltd	Fortnight plan	23/07/22	GT Electronic India Pvt Ltd	Pending work schedule
11/07/22	GT Electronic India Pvt Ltd	Lean Management seminar, understanding coordination between civil and electrical	25/07/22	GT Electronic India Pvt Ltd	Site visit
12/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	26/07/22	SIST, Chennai GTE	Pile and Pile cap numbering, tracking and monitoring
13/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	27/07/22	GT Electronic India Pvt Ltd	Last planner
14/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	28/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring
15/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	29/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring
16/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	30/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring
18/07/22	GT Electronic India Pvt Ltd	Tracking and Monitoring	01/08/22	Ather Energy, Hosur	Understanding scope and drawings
19/07/22	Polyhose, Sungachatram	A3 Design Thinking	02/08/22	Ather Energy, Hosur	Ather interior schedule
20/07/22	IIT Madras	Site visit	03/08/22	Comprehensive sewage scheme, Karapakkam	Understanding the contract documents and GCC

04/08/22	Comprehensive sewage scheme, Karapakkam	Delay Analysis	08/08/22	GTE, Ather Energy	Tracking and monitoring
05/08/22	GT Electronic India Pvt Ltd	Planned Percent complete, Tracking and monitoring	09/08/22	GT Electronic India Pvt Ltd	Tracking and monitoring
06/08/22	SIST, Chennai	Site visit	10/08/22	GTE Ather Energy, Hosur	Material selection, Tracking and monitoring

Chief Architect Signature:

Office seal



COMPLETION CERTIFICATE



August 19, 2022

Ref: EPMCRPL/22-23/HR/INTERN/08-10



CREATING VALUES FOR YOUR INVESTMENT
An IIT Madras Incubated
Construction Technology Company

INTERNSHIP CERTIFICATE

Ms. Sharina Mary Nikitha. S, pursuing her Masters in Architecture in Building Management (RegNo: 41840013) at Sathyabama Institute of Science & Technology, Chennai has completed an internship training at our company, from 07.07.2022 to 10.08.2022.

Main Tasks accomplished:

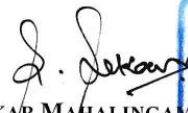
- Learned the basics of Construction Project Management and Lean Management
- Learned about last planner system and fortnight plan (pull approach)
- Observed how to communicate with vendors and contractors.
- Learned how to cross check RA bills and how to put cumulative bill.
- Learned about Preparation of Tender Documents which includes General Conditions of Contract and Special condition of contract and writing specification for BOQ
- Understood how to schedule for Industrial projects and the hindrance that will happen on site and how that will affect the productivity of the workers.
- Understood the co-ordination between civil and electrical work on site
- Learned the basic of delay analysis and delay mapping

Involved project during the Internship Period:

- GT Electronic India Pvt Ltd, Construction Of Proposed Factory Building At Ozhindhiyapattu, Tamilnadu
- SIST Convention center, proposed construction of Convention Centre at Sathyabama Institute of Science and Technology, Semmancheri, Chennai.
- Ather Energy- Proposed Interior works inside the Factory Building at Ather Energy Private Limited, Hosur.
- IIT Madras, Proposed Interior work for D block 4th floor
- Polyhose, Sunguvarchatram, Proposal for New Polyhose warehouse and other buildings and amenities
- Comprehensive Sewage scheme to Manali, Karambakkam, Chinnasekkadu and Manapakkam in Chennai city

During the internship she was found to be Highly Logical, Inquisitive & Hard Working.

FOR ENGINEERING PROJECT MANAGEMENT CONSULTANCY & RESEARCH PVT LTD.,


S SEKAR MAHALINGAM
HR&ADMN



Engineering Project Management Consultancy and Research Pvt. Ltd.



No. 2B, 1st Floor, Balaji Nagar Main Road, Bharathi Avenue, New Perungalathur, Chennai - 600 063.



TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
1	About the firm	
	1.1 Vision	1
	1.2 Mission	1
	1.3 Objective	1
	1.4 Firms portfolio	1
	1.5 Award	2
	1.6 Reason for choosing the firm	2
2	Lean Construction Management	3
3	Project 1 – GT Electronic India Pvt Ltd	
	3.1 About the project	4
	3.2 Overall Layout	5
	3.3 Site Visit	6
	3.4 Schedule	7
	3.5 Fortnight plan	10
	3.6 Planned percent complete	12
	3.7 Last planner	13
4	Project 2 – Polyhose, Sunguvarchatram	
	4.1 Neighborhood Study	15
5	Project 3 – Convention center, Sathyabama Institute of Science and Technology	
	5.1 About the project & Site visit	16

6	Project 4 – Ather Energy, Hosur	
	6.1 About the Project	17
	6.2 Overall Layout	18
	6.3 Procurement list	19
	6.4 Schedule	22
	6.5 Material selection	28
7	Project 5 – IIT Research park, Madras	
	7.1 Fortnight plan	30
8	Project 6 – Sewage system to Manali, Karambakkam, Chinnasekkadu and Manapakkam in Chennai	
	8.1 Scope of the project	31
	8.2 Delay reason and time (Karambakkam)	33
	8.3 Bar chart	34
9	Conclusion	
	9.1 Inference from training	35

1. ABOUT THE FIRM



Engineering Project Management Consultancy and Research (EPMCR) is an IIT Madras incubated firm formed with a vision “to enable a quality Indian Infrastructure development within time and budget through our Engineering, Project Management, Research and Training Services.

EPMCR(P)LTD offers single point solution for planning, design and construction of all type of Building Infrastructure, Transportation Infrastructure and Water Infrastructure.

1.1 EPMCR VISION

- To become world class Engineering & Project Management consultants and professional trainers.
- Enabling high quality Indian infrastructure development within time and budget.
- Create innovation in construction technology and Management techniques through our continuous research.
- Strengthen Indian construction work force through our skill training.

1.2 EPMCR MISSION

- Provide Value creation for our client’s Infrastructure Investment through our Engineering, Project Management Consultancy, Research and Training services.

1.3 EPMCR OBJECTIVE

- To help our client to realize the optimum value & quality for their investment in infrastructure projects within the time and budget.
- Bring innovative & cost effective solution to improve productivity through waste reduction and other new technologies.
- Offer professional training to young engineers on construction management.

1.4 FIRMS PORTFOLIO

Completed projects	On going projects
Construction Management for Construction / Rennovation of M.A Chidambaram Cricket Stadium, Chepauk, Chennai - 2010	Design and Construction management for SIST convention centre, Chennai
Plumbing Design for IIT Madras Hostel Building, 2011	Construction Management for GT Electronics Pvt Ltd, Pondichery
Design & Detailed estimate of Competitive 8- lane swimming pool (50 m x 21 m x 1.8 m) – 2010	Design and PMC solution for Ather Energy, Hosur

1. ABOUT THE FIRM

1.5 AWARD



EPMCR received Quality Mark Award in 2016 .

1.6 REASON FOR CHOOSING THE FIRM

- The service motto of the firm is "**Create Values for your investment**". **Value For Money, Value For Time, Value For Work and Customer Satisfaction** are the real benefits that our clients enjoy with our humble service.
- EPMCR provides various services from architectural design to construction management and consultation for contractors.
- Since they have all the services under one roof it will be easy to grasp the full process of a construction project from start till end
- The firm does all kind of projects like residential, Industrial, Institutional and Hospitality, so we will be exposed to different typology of projects which will be helpful in the future.

2. LEAN CONSTRUCTION MANAGEMENT

The word “*lean*” means **efficiency, avoiding waste, minimizing costs, maximizing value, collaboration, and continuous improvement.**



From its history in production and manufacturing, Lean construction applies the same principles to improve productivity. Key differences derived from Lean construction include:

- **Control** is redefined from “monitoring results” to “making things happen.” Planning system performance is measured and improved to assure reliable workflow and predictable project outcomes.
- **Performance** is maximizing value and minimizing waste at the project level.
- **Project delivery** is the simultaneous design of the facility and its production process, or concurrent engineering.
- **Value** to the customer is defined, created and delivered throughout the life of the project. In current practice, the owner is expected to completely define requirements at the outset for delivery at the end, despite changing markets, technology and business practices.
- **Coordinating action through pulling and continuous flow** as opposed to traditional schedule-driven push with its over-reliance on central authority and project schedules to manage resources and coordinate work.
- **Decentralizing** decision-making through transparency and empowerment. This means providing project participants with information about the state of the production systems and empowering them to act.

PULL VS. PUSH

- Traditionally, in construction as well as most other industries, direction for a project **comes from the top** (think: an owner, GC, or developer), and everyone else adjusts to meet with the requirements. This is what’s referred to as a “**push**” scenario.
- Lean construction takes the **opposite approach** and “**pulls.**” A pull approach starts at the finished project and works backwards. It’s sort of like mentally reverse-engineering the project. To complete X, Y, and Z portions of the project, jobs 1, 2, and 3 must first be complete. Using this process, a more efficient schedule can be created rather than tackling obstacles as they come up.
- Example : Last planner, Fortnight plan.

3. GT ELECTRONIC INDIA PVT LTD

3.1 ABOUT THE PROJECT



Project	Proposed Factory for GT Electronic (India) Pvt. Ltd.
Location	GT Electronic India (P) Limited Olundhiyapatu Village, Vanur Taluk, Villupuram District, Tamil Nadu
Site area	6.26 Acres (As per Topographic Survey)
Project scope	Production with Utility Building ,Admin Building (G+1),STP, Security Block+ Infrastructure works, UG Sump & Pump Room, Transformer
Stakeholders	GT Electronic (India) Pvt. Ltd., EPMCR Pvt.Ltd., Tarmaker, Aatithyaa, Pyrosafe



Production Building



Pump House



Security Building



Admin Building

3. GT ELECTRONIC INDIA PVT LTD

3.2 OVERALL LAYOUT



3. GT ELECTRONIC INDIA PVT LTD

3.3 SITE VISIT (25th July)



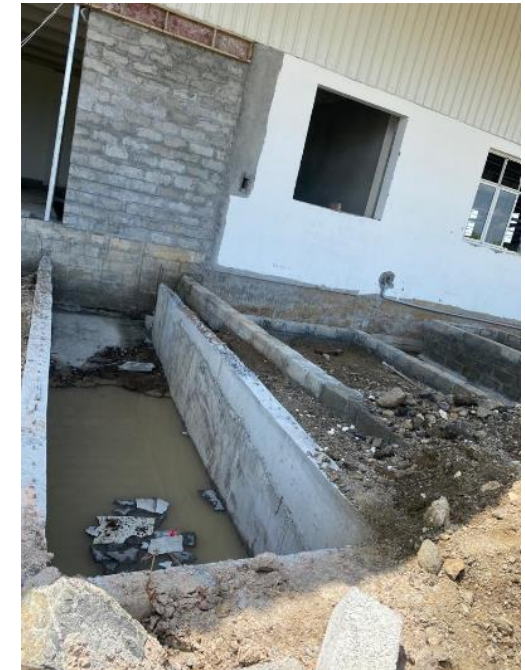
PB Interior false ceiling work



partition wall work



Frame fixing work



Electrical trench



UG electrical trench



PB Toilet Tile fixing



Admin toilet



Terrace

3. GT ELECTRONIC INDIA PVT LTD

3.4 SCHEDULE

CLIENT: M/s.GT Electronic (I) PVT LTD					Schedule revised on 24/07/2022			
EPC: M/s . TARMAKER					SCOPE			
PMC:M/s . EPMCR								
TITLE: GTE SITE SCHEDULE PLAN								
COMPLETION PERIOD:01.07.22 to 31.08.22 (REVISED PLAN)					Total		Completed	Balance
S.No	Activity	Duration	Start	Finish	Unit	Qunatity	Qunatity	Qunatity
A	PRODUCTION BUILDING							
1	AAC block, sub column & sill slab		Progressing	30-07-2022	sq.m	1161	1111	50
2	AAC wall putty work		Progressing	02-08-2022	rmt	1161	761	400
	TOILET, HEALTH CARE & RAMP							
2	Ramp, RCC flooring work	2	25-07-2022	26-07-2022	cu.m			3.8
3	Toilet wall tiles	6	25-07-2022	30-07-2022	sq.m	351	94	257
4	Toilet floor tiles	12	25-07-2022	06-08-2022	sq.m	102	0	102
5	Toilet joinery (measured and in fabrication)	6	08-08-2022	13-08-2022	Nos.	26	0	26
	GAS BANK + ANNEALING + POWDER COATING ROOM							
6	Grade beam		25-07-2022	27-07-2022	rmt	9	9	0
7	Solid block wall		28-07-2022	29-07-2022	sqm	7.65	7.65	0
8	plinth beam	2	25-07-2022	26-07-2022	rmt	28.07	0	28.07
9	Basement fill	2	27-07-2022	28-07-2022	cum	10	0	10
10	GSB filling & PCC	2	01-08-2022	02-08-2022	cum	4	0	4
11	Block work upto lintel lvl	3	02-08-2022	04-08-2022	sqm	101.052	0	101.052
12	Lintel	4	05-08-2022	09-08-2022	rmt	28.07	0	28.07
13	Block work above lintel	2	10-08-2022	11-08-2022				
14	External plastering	3	12-08-2022	14-08-2022	sqm	100	0	100
15	Internal plastering	3	15-08-2022	17-08-2022	sqm	100	0	100
16	Structural roof	11	31-07-2022	15-08-2022				
17	Putty and primer				rmt	100	0	100
18	Joinery							
	ELECTRICAL TRENCH							
19	Plastering	2	26-07-2022	27-07-2022	sq.m	20	0	20
	DG FOUNDATION							
20	Basement fill	2	22-07-2022	23-07-2022	cu.m	25	0	25
21	GSB and PCC	2	25-07-2022	26-07-2022	cu.m	7 + 7	0	7 + 7
22	DG bed RT steel	3	27-07-2022	29-07-2022				
23	Shuttering	2	30-07-2022	31-07-2022				
24	Concrete	2	01-08-2022	02-08-2022	cum	22	0	22
25	Platering	3	03-08-2022	05-08-2022	sqm	70	0	70
26	DG yard external flooring and west Ramp	3	03-08-2022	05-08-2022	cum	3.4	0	3.4
	CANTEEN EXPANSION SUB STRUCTURE							
27	Plinth steel placing	3	25-07-2022	27-07-2022	rmt	37	0	37
28	Plinth shuttering & concrete	2	28-07-2022	29-07-2022				
29	Basement fill	2	30-07-2022	01-08-2022	sqm	150	0	150
30	GSB & PCC for flooring	3	02-08-2022	04-08-2022				
31	Canteen expansion steel structure	10	27-07-2022	06-08-2022				
	PRODUCTION BUILDING INTERIOR							
32	Tile skirting	6	25-07-2022	30-07-2022				
33	False ceiling frame	24	11-07-2022	04-08-2022	sq.m	1325	138	1187
34	False ceiling	12	01-08-2022	12-08-2022	sq.m	1325	0	1325
35	Aluminuim partition	10	01-08-2022	10-08-2022	sq.m	639	0	639

3. GT ELECTRONIC INDIA PVT LTD

3.4 SCHEDULE

36	Glass fixing	4	10-08-2022	13-08-2022				
37	Window erection	3	13-08-2022	15-08-2022				
38	Finish coat painting (interior + exterior)	22	25-07-2022	15-08-2022	sq.m	3475	0	3475
B	ADMIN BUILDING							
1	East Internal wall plastering		Progressing	30-07-2022				
2	AAC block work GF & FF		Progressing	30-07-2022	sqm	236	81	155
3	AAC block plastering GF & FF		Progressing	30-07-2022	sqm	236		
4	False ceiling	26	01-08-2022	30-08-2022	sqm	584	0	584
5	Floor tiles	11	01-08-2022	12-08-2022	sqm	584	0	584
6	Glazing (measurement on 12th august)	16	15-08-2022	30-08-2022				
7	Final painting	15	03-09-2022	17-09-2022				
	STAFF TOILET AND CRECHE							
8	GSB and PCC		Progressing	27-07-2022				
9	Wall tiles	5	28-07-2022	02-08-2022	sq.m	122	0	122
10	Floor tiles	4	03-08-2022	06-08-2022	sq.m	35	0	35
11	Joinery	6	08-08-2022	13-08-2022				
12	Sanitary and CP fitting	2	14-08-2022	15-08-2022				
	EXTERNAL WORK							
13	External plastering		Progressing	30-07-1933	sq.m	622	390	232
14	West wall external plastering				sq.m	overall given above (116-west		
15	Elevation work		Progressing	06-08-2022	rmt	622	574	48
16	External painting	19	08-08-2022	27-08-2022	sq.m	747	0	747
	HEADROOM							
17	Headroom Internal plastering		Progressing	25-07-2022	sq.m	122	0	122
18	Terrace cleaning & waterproof coating	6	25-07-2022	30-07-2022	sq.m	330	0	292
19	Grano levelling course	4	01-08-2022	03-08-2022	cu.m	23	0	23
20	Weatherproof tile	3	04-08-2022	06-08-2022	sq.m	310	0	310
	STAIRS							
21	Steps granite cutting and sizing		Progressing	30-07-2022				
22	Steps granite work	15	01-08-2022	15-08-2022				
23	Steps handrail	7	16-08-2022	22-08-2022				
C	SECURITY BUILDING							
1	External plastering		Processing	06-08-2022	sq.m	252	92	160
2	Toilet plumbing	3	25-07-2022	27-07-2022				
3	Leak test	2	28-07-2022	29-07-2022				
4	Wall tiles (toilet)	3	30-07-2022	02-08-2022	sq.m	26	0	26
6	Floor tiles (toilet + office)	4	01-08-2011	04-08-2022	sq.m	53	0	53
7	Terrace waterproof coating	2	01-08-2022	02-08-2022	sq.m	124	0	124
8	Terrace waterproof levelling course	3	03-08-2022	05-08-2022	sq.m	124	0	124
9	Terrace waterproof tile laying	3	06-08-2022	07-08-2022	sq.m	124	0	124
10	Painting (exterior + interior)	4	08-08-2022	11-08-2022	sq.m	608	0	608
11	Exterior platform (DRAWING PENDING)							
12	Septic tank	7	28-07-2022	04-08-2022				
D	INFRASTRUCTURE							
D1	APPROACH ROAD NH							
1	Hume pipe laying	5	26-07-2022	30-07-2022				

3. GT ELECTRONIC INDIA PVT LTD

3.4 SCHEDULE

2	Hill earth filling	5	31-07-2022	04-08-2022				
3	GSB							
4	WMM							
5	BITUMEN							
6	Kerb stone (in situ)							
D2	TRASFORMER YARD& BED, POLE FOUNDATION (4Nos), & ACB ROOM							
1	Block work and trench	2	26-07-2022	27-07-2022	rmt	39	30	9
2	Stiffner column	2	28-07-2022	29-07-2022				
3	Plinth beam RT steel, shuttering and concreting	4	30-07-2022	02-08-2022	rmt	184	0	184
4	filling	5	05-08-2022	09-08-2022	cu.m	170	0	170
5	GSB	2	10-08-2022	11-08-2022				
6	PCC	2	12-08-2022	13-08-2022				
7	ACB column raising	3	03-08-2022	05-08-2022				
8	ACB block work and bed block	3	06-08-2022	08-08-2022	sq.m	35	0	35
9	ACB structural steel erection	2	10-08-2022	11-08-2022				
10	ACB roof beam RT steel, shuttering and concreting	3	12-08-2022	14-08-2022				
11	ACB deck sheet, RT steel and RCC	3	15-08-2022	17-08-2022	cu.m	1.5	0	1.5
12	ACB internal plaster	3	18-08-2022	20-08-2022	sq.m	35	0	35
13	ACB external plaster	3	21-08-2022	23-08-2022				
14	ACB GSB, PCC & flooring	3	21-08-2022	23-08-2022	cu.m	1.3	0	1.3
15	Joinery	2	24-08-2022	25-08-2022				
16	Painting	4	24-08-2022	27-08-2022				
D3	STP							
1	Footing marking	1	25-07-2022	25-07-2022				
2	Footing earth work	2	26-07-2022	27-07-2022				
3	GSB & PCC	1	28-07-2022	28-07-2022				
4	Footing raft steel placing	1	29-07-2022	29-07-2022				
5	Footing raft shuttering and concreting	2	30-07-2022	01-08-2022				
6	Wall starter marking	1	02-08-2022	02-08-2022				
7	RT steel in wall	1	03-08-2022	03-08-2022				
8	Wall shuttering	3	04-08-2022	07-08-2022				
9	1 ST lift RCC	1	08-08-2022	08-08-2022				
10	Deshuttering	2	09-08-2022	10-08-2022				
11	Initial waterproofing and hydro testing	4	11-08-2022	15-08-2022				
12	Plastering	3	16-08-2022	18-08-2022				
13	Slab shuttering	1	19-08-2022	20-08-2022				
14	Slab steel placing	1	21-08-2022	22-08-2022				
15	Slab casting	1	23-08-2022	23-08-2022				
16	Curing and deshuttering	9	24-08-2022	01-09-2022				

3. GT ELECTRONIC INDIA PVT LTD

3.5 FORTNIGHT PLAN

FORTNIGHT PLAN -17 (GT ELECTRONIC (INDIA) PRIVATE LIMITED)															
DESCRIPTION	DAY-01	DAY-02	DAY-03	DAY-04	DAY-05	DAY-06	DAY-07	DAY-08	DAY-09	DAY-10	DAY-11	DAY-12	DAY-13	DAY-14	
	25-Jul-22	26-Jul-22	27-Jul-22	28-Jul-22	29-Jul-22	30-Jul-22	31-Jul-22	01-Aug-22	02-Aug-22	03-Aug-22	04-Aug-22	05-Aug-22	06-Aug-22	07-Aug-22	
PRODUCTION BUILDING							Sunday							Sunday	
AAC BLOCK , SUB COLOUMN & SILL SLAB	AAC BLOCK , SUB COLOUMN & SILL SLAB														
HC & PASSAGEPLINTH BEAM WITH RAMP RCC FLOOR	RAMP RCC FLOORING WORK														
TOILET WALL TILES	TOILET WALL TILES														
TOILET FLOOR TILES	TOILET FLOOR TILES							TOILET FLOOR TILES							
GAS BANK + ANNEALING + POWDER COATING ROOF															
PLINTH BEAM	PLINTH BEAM		BASEMENT FILL & CONSOLIDATION												
BASEMENT FILL															
GSB FILLING & PCC WORK								GSB FILLING & PCC WORK							
BLOCK WORK UPTO LINTEL LEVEL									BLOCK WORK UPTO LINTEL LEVEL						
LINTEL											LINTEL				
ELECTRICAL TRENCH															
PLASTERING		PLASTERING													
DG FOUNDATION															
GSB & PCC	PIJE														
DG BED RT STEEL			PILE CAP & GRADE BEAM												
SHUTTERING						SHUTTERING									
CONCRETE								CONCRETING							
PLASTERING									PLASTERING WORK						
DG YAR EXTERNAL FLOORING & WEST RAMP											RAMP FLOORING				
INTERIOR															
FALSE CEILING COLUMN & ROOF STRUCTURE	FALSE CEILING COLUMN & ROOF STRUCTURE							FALSE CEILING COLUMN & ROOF STRUCTURE							
ALUMINIUM PARTITIONS	ALUMINIUM PARTITIONS							ALUMINIUM PARTITIONS							
FALSE CEILING	FALSE CEILING							FALSE CEILING							
FINISH COAT PAINT	FINISHING COAT							FINISHING COAT							
CANTEEN EXPANSION SUB STRUCTURE															
PLINTH STEEL PLACING	PLINTH STEEL PLACING														
PLINTH SHUTTERING CONCRETE				SHUTTERING AND CONCRETE											
BASEMENT FILLING						FILLING									
GSB FILLING									GSB						
PCC FOR FLOORING											PCC				
CANTEEN EXPANSION STEEL STRUCTURE											STEEL PLACING				
ADMIN BUILDING															
EAST -INTERNAL PLASTERING	PLASTERING														
WEST WALL EXTERNAL PLASTERING		WEST WALL EXTERNAL PLASTERING													
AAC BLOCK WORK GF & FF	AAC BLOCK WORK GF & FF														
AAC BLOCK PUTTY WORK GF & FF	AAC BLOCK PUTTY WORK							AAC BLOCK PUTTY WORK							
FALSE CELING	FALSE CELING WORKS							FALSE CELING WORKS							
FLOOR TILES								FLOOR TILES							
TOILET															
GSB & PCC	PCC														
WALL TILES		WALL TILES													
FLOOR TILES									FLOOR TILES						
JOINERS								JOINERIES							
EXTERNAL WORKS															
ELEVATION WORK	ELEVATION WORK							ELEVATION WORK							
HEAD ROOM															
HEAD ROOM PLASTER INNER	PLASTERING														
TERRACE -CLEANING & WATERPROOF-COATING		CLEANING WORK													
GRANO - LEVELLING COURSE				LEVELLING COARSE											
WAETHER PROOF TILE								TILES WORK							
STEPS GRANITE										GRANITE WORK					

3. GT ELECTRONIC INDIA PVT LTD

3.5 FORTNIGHT PLAN

FORTNIGHT PLAN -17 (GT ELECTRONIC (INDIA) PRIVATE LIMITED)															
DESCRIPTION	DAY-01	DAY-02	DAY-03	DAY-04	DAY-05	DAY-06	DAY-07	DAY-08	DAY-09	DAY-10	DAY-11	DAY-12	DAY-13	DAY-14	
	25-Jul-22	26-Jul-22	27-Jul-22	28-Jul-22	29-Jul-22	30-Jul-22	31-Jul-22	01-Aug-22	02-Aug-22	03-Aug-22	04-Aug-22	05-Aug-22	06-Aug-22	07-Aug-22	
SECURITY BUILDING							Sunday								Sunday
EXTERNAL PLASTERING	EXTERNAL PLASTERING							EXTERNAL PLASTERING							
TOILET PLUMBING WORKS	TOILET PLUMBING WORKS														
LEAK TEST				LEAK TEST											
WALL TILES								WALL TILES							
FLOOR TILES										FLOOR TILES					
ELEVATION WORK												ELEVATION WORK			
TERRACE -WATERPROOF-COATING								PRIMARY COATING							
TERRACE -WATERPROOF-LEVELLING COURSE										LEVELLING COARSE					
TERRACE-WATERPROOF-TILE LAYING												TILES LAYING			
TRANSFORMER YARD															
BLOCK WORK & TRENCHES	TRENCHES														
PLINTH BEAM RT STEEL, SHUTTERING & RCC	PB CONCRETE														
ACB COLUMN RAISING				COLUMN WORK											
FILLING	FILLING AND COMPACTION														
GSB						GSB									
PCC								PCC							
ACB BLOCK WORK & BED BLOCK	BLOCK WORK														
ACB STRUCTURAL STEEL ERECTION				STEEL STRUCTURE ERECTION WORK											
ACB ROOF BEAM RT STEEL, CENTERING & RCC															
ACB DECK SHEET & RT STEEL & RCC															
ACB PLASTER INTERNAL															
STP															
FOOTING MARKING	MARKING														
FOOTING EARTH WORK	EARTH WORK														
GSB & PCC			PCC												
FOOTING RAFT STEEL PLACING				STEEL PLACING											
FOOTING RAFT SHUTTERING & CONCRETE						CONCRETE									
APPROACH ROAD-NH															
HUME PIPE LAYING	HP LAYING														
HILL EARTH FILLING	HILL EARTH FILLING & COMPACTION														
GSB					GSB										
WMM								WMM							
STROM WATER DRAIN															
EARTH WORK & DISPOSAL	EARTH WORK														
GSB FILLING				GSB											
PCC LAYING					PCC										
STEEL PLACING					STEEL PLACING										
RAFT CONCRETE								RAFT							
WALL SHUTTERING										WALL SHUTTERING					
WALL CONCRETE												WALL CONCRETE			

3. GT ELECTRONIC INDIA PVT LTD

3.6 PLANNED PERCENT COMPLETE

PROJECT - GT ELECTRICAL								PPC
CLIENT - GT ELECTRICAL								
PMC - EPMCR								
STAKEHOLDERS - GTE, EPMCR, TARMAKER, PYROSAFE, AATITHYAA								
05-08-2022	PLANNED PERCENTAGE COMPLETE							
S.no	Activity	Location	Unit	Planned	Achieved	Status	% Completed	% not completed
1	False ceiling grid work	PB- Semicron area	Sq.m	20	10	0	53.84615385	46.15384615
2	2nd coat putty work	PB- Spare store & maintainance area	Rmt.	45	35	0		
3	Plinth beam reinforcement	PB- Canteen Expansion	Rmt.	37	37	1		
4	Wall and Floor tile	PB- Ladies restroom	Sq.m	10	10	1		
5	Above lintel block work	Transformer yard - ACB panel room	sq.m			0		
6	Elevation work	Admin North side	Rmt.	2	2	1		
7	1st coat Putty work	Admin 1st floor	Rmt.			0		
8	External wall plastering	Admin West side	Sq.m	20	20	1		
9	Above sill block work	Admin UPS room	Sq.m			0		
10	Toilet plumbing	Security building	Nos.	1	1	1		
11	2nd lift wall concrete	STP	Cu.m	100	100	1		
12	Plinth beam shuttering & concreting	PB- Canteen Expansion				1		
13	Shuttering	SWD	Rmt.	30	25	0		
Total activity	13		Total activity completed			7		

3. GT ELECTRONIC INDIA PVT LTD

3.7 LAST PLANNER

CLIENT: M/s. GT Electronic (I) PVT LTD
EPC: M/s. TARMAR
PMC: M/s. EPMOR
TITLE: GT SITE SCHEDULE PLAN
COMPLETION PERIOD: 01.07.22 to 31.08.22 (REVISED PLAN)

WEEK 1		WEEK 2	
25/07/22 to 30/07/22		01/08/22 to 06/08/22	
TRADE	LOCATION	TRADE	LOCATION
CIVIL	PRODUCTION BLOCK	ACTIVITY NAME: AAC block, sub column and sill slab LOCATION: SCOPE QTY: 58 sq.m. RESOURCES: Mason, AAC block, binder PREDECESSOR ACTIVITY: Tiling	ACTIVITY NAME: AAC block putty LOCATION: SCOPE QTY: 300 sq.m. RESOURCES: Mason, putty PREDECESSOR ACTIVITY: AAC block work
		ACTIVITY NAME: Wall tile LOCATION: SCOPE QTY: 257 sq.m. RESOURCES: tiles, labour PREDECESSOR ACTIVITY: Plastered wall	ACTIVITY NAME: Floor tile LOCATION: SCOPE QTY: 51 sq.m. RESOURCES: tiles, labour PREDECESSOR ACTIVITY: PCC
		ACTIVITY NAME: Plinth beam LOCATION: SCOPE QTY: 28.07 rmt. RESOURCES: labour, steel, cement, shuttering PREDECESSOR ACTIVITY: block work	ACTIVITY NAME: Basement fill LOCATION: SCOPE QTY: 10 cu.m. RESOURCES: labour, earth, compacting equipment PREDECESSOR ACTIVITY: Plinth beam
CIVIL	ADMIN BUILDING	ACTIVITY NAME: East wall plastering LOCATION: SCOPE QTY: Office GF, FF RESOURCES: Mason, cement PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: GSB and PCC LOCATION: SCOPE QTY: GF toilet RESOURCES: Mason, cement PREDECESSOR ACTIVITY: Basement fill
		ACTIVITY NAME: AAC block work LOCATION: SCOPE QTY: FF RESOURCES: Mason, cement, AAC block PREDECESSOR ACTIVITY: Flooring, Marking	ACTIVITY NAME: Wall tile LOCATION: SCOPE QTY: GF toilet RESOURCES: Mason, cement, tile PREDECESSOR ACTIVITY: Block work, plastering
		ACTIVITY NAME: AA block plastering work LOCATION: SCOPE QTY: FF, GF RESOURCES: Mason, cement, AAC block PREDECESSOR ACTIVITY: Flooring, Marking	ACTIVITY NAME: External Plastering LOCATION: SCOPE QTY: external RESOURCES: Mason, cement, scaffolding, brick PREDECESSOR ACTIVITY: plastering
CIVIL	SECURITY BUILDING	ACTIVITY NAME: External plastering LOCATION: SCOPE QTY: exterior RESOURCES: Mason, cement, scaffolding PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: Plumbing LOCATION: SCOPE QTY: Toilet RESOURCES: Mason, PVC pipe PREDECESSOR ACTIVITY: Block work, plastering
		ACTIVITY NAME: Septic tank LOCATION: SCOPE QTY: exterior RESOURCES: Mason, material PREDECESSOR ACTIVITY: Ground clearance, marking	ACTIVITY NAME: Leak test LOCATION: SCOPE QTY: Toilet RESOURCES: Mason, PVC pipe PREDECESSOR ACTIVITY: Plumbing
		ACTIVITY NAME: External plastering LOCATION: SCOPE QTY: exterior RESOURCES: Mason, cement, scaffolding PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: Cleaning and water proof coating LOCATION: SCOPE QTY: Terrace RESOURCES: Mason, coating PREDECESSOR ACTIVITY: Block work
INTERIOR	PRODUCTION BUILDING	ACTIVITY NAME: Floor tile LOCATION: SCOPE QTY: Office GF, FF RESOURCES: Mason, tiles PREDECESSOR ACTIVITY: Block work, PCC floor	ACTIVITY NAME: Measuring and cutting granite LOCATION: SCOPE QTY: Staircase RESOURCES: Mason, granite, cutting equipment PREDECESSOR ACTIVITY: staircase plastering
		ACTIVITY NAME: Wall tile LOCATION: SCOPE QTY: 122 sq.m. RESOURCES: Mason, cement, tile PREDECESSOR ACTIVITY: Block work, plastering	ACTIVITY NAME: Elevation work LOCATION: SCOPE QTY: external RESOURCES: Mason, cement, scaffolding, brick PREDECESSOR ACTIVITY: plastering
		ACTIVITY NAME: Floor tile LOCATION: SCOPE QTY: GF toilet RESOURCES: Mason, cement, tile PREDECESSOR ACTIVITY: GSB and PCC	ACTIVITY NAME: Granite levelling course LOCATION: SCOPE QTY: Terrace RESOURCES: Mason, coating PREDECESSOR ACTIVITY: weather proofing
INTERIOR	ADMIN BUILDING	ACTIVITY NAME: External plastering LOCATION: SCOPE QTY: exterior RESOURCES: Mason, cement, scaffolding PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: Water proof coating LOCATION: SCOPE QTY: Terrace RESOURCES: Mason, material PREDECESSOR ACTIVITY: Terrace pcc
		ACTIVITY NAME: Floor tile LOCATION: SCOPE QTY: Toilet, office RESOURCES: Mason, Tile PREDECESSOR ACTIVITY: Plastering	ACTIVITY NAME: Water proof levelling course LOCATION: SCOPE QTY: Terrace RESOURCES: Mason, material PREDECESSOR ACTIVITY: water proof coating
		ACTIVITY NAME: Water proof tile laying LOCATION: SCOPE QTY: Terrace RESOURCES: Mason, material PREDECESSOR ACTIVITY: water proof levelling	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
INTERIOR	PRODUCTION BUILDING	ACTIVITY NAME: Skirting LOCATION: SCOPE QTY: PB interior RESOURCES: tiles, labour PREDECESSOR ACTIVITY: Plastered wall	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
		ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
		ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
INTERIOR	ADMIN BUILDING	ACTIVITY NAME: Skirting LOCATION: SCOPE QTY: PB interior RESOURCES: tiles, labour PREDECESSOR ACTIVITY: Plastered wall	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
		ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling
		ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling	ACTIVITY NAME: False ceiling frame LOCATION: SCOPE QTY: PB interior RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling

3. GT ELECTRONIC INDIA PVT LTD

3.7 LAST PLANNER

WEEK 3					WEEK 4					WEEK 5				
08/08/22 to 13/08/22					15/08/22 to 20/08/22					22/08/22 to 27/08/22				
ACTIVITY NAME: Joinery fixing LOCATION : PB toilet SCOPE QTY : 26 nos. RESOURCES: Fabricated joinery PREDECESSOR ACTIVITY: plastering, Tiling	ACTIVITY NAME: Lintel beam LOCATION : gas bank SCOPE QTY: 28.07 rmt RESOURCES: reinforcement, shuttering, concrete, mason PREDECESSOR ACTIVITY: Block work upto lintel	ACTIVITY NAME: Plastering (internal external) LOCATION : gas bank SCOPE QTY : 200sq.m RESOURCES: cement, labour PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: Steel structure erection LOCATION : Gas bank SCOPE QTY: 200sq.m RESOURCES: labour, PEB components PREDECESSOR ACTIVITY: Bolt fixing		ACTIVITY NAME: Structural roof LOCATION : gas bank SCOPE QTY : 200sq.m RESOURCES: labour, pre fab. material PREDECESSOR ACTIVITY: Block work					ACTIVITY NAME: Joinery LOCATION : gas bank SCOPE QTY : 200sq.m RESOURCES: cement, labour PREDECESSOR ACTIVITY: Block work, plastering, painting				
ACTIVITY NAME: Structural roof LOCATION : gas bank SCOPE QTY: 200sq.m RESOURCES: labour, pre fab. material PREDECESSOR ACTIVITY: Block work	ACTIVITY NAME: Block work above lintel LOCATION : gas bank SCOPE QTY: 200sq.m RESOURCES: AAC block, cement, labour PREDECESSOR ACTIVITY: Block work upto lintel	ACTIVITY NAME: Block work above lintel LOCATION : gas bank SCOPE QTY: 200sq.m RESOURCES: AAC block, cement, labour PREDECESSOR ACTIVITY: Block work upto lintel												
ACTIVITY NAME: Floor tile LOCATION : Office GF, FF SCOPE QTY: 584 sq.m RESOURCES: Mason, tiles PREDECESSOR ACTIVITY: Block work, PCC floor	ACTIVITY NAME: Joinery LOCATION : Gas bank SCOPE QTY: 200sq.m RESOURCES: Mason, fabricated joinery PREDECESSOR ACTIVITY: plastering, tiling	ACTIVITY NAME: Painting LOCATION : Exterior SCOPE QTY: 747 sq.m RESOURCES: labour, paint PREDECESSOR ACTIVITY: plastering	ACTIVITY NAME: Granite placing LOCATION : Gas bank SCOPE QTY: 200sq.m RESOURCES: Mason, granite PREDECESSOR ACTIVITY: Granite cutting, plastering		ACTIVITY NAME: Joinery fixing, glazing LOCATION : FF, GF office SCOPE QTY: 747 sq.m RESOURCES: labour, fabricated joinery PREDECESSOR ACTIVITY: Block work, plastering	ACTIVITY NAME: Sanitary Fitting LOCATION : Gas bank SCOPE QTY: 200sq.m RESOURCES: Mason, sanitary fixture PREDECESSOR ACTIVITY: plastering, tiling, joinery	ACTIVITY NAME: Painting LOCATION : Exterior SCOPE QTY: 747 sq.m RESOURCES: labour, paint PREDECESSOR ACTIVITY: plastering	ACTIVITY NAME: Steps handrail LOCATION : Gas bank SCOPE QTY: 200sq.m RESOURCES: Mason, railing PREDECESSOR ACTIVITY: Tiling		ACTIVITY NAME: Joinery fixing, glazing LOCATION : FF, GF office SCOPE QTY: 747 sq.m RESOURCES: labour, fabricated joinery PREDECESSOR ACTIVITY: Block work, plastering				
ACTIVITY NAME: Waterproof tile laying LOCATION : Terrace SCOPE QTY: 124 sq.m RESOURCES: Mason, material PREDECESSOR ACTIVITY: waterproof levelling	ACTIVITY NAME: Painting LOCATION : Exterior, Int SCOPE QTY: 608 sq.m RESOURCES: Mason, material PREDECESSOR ACTIVITY: Plastering													
ACTIVITY NAME: False ceiling Grid LOCATION : PB Interior SCOPE QTY : 1325 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: False ceiling frame	ACTIVITY NAME: Aluminium partition LOCATION : Int SCOPE QTY : 213 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Flooring	ACTIVITY NAME: glass fixing LOCATION : Interior SCOPE QTY : 213 sq.m RESOURCES: labour, glass PREDECESSOR ACTIVITY: aluminium partition	ACTIVITY NAME: Window erection LOCATION : gas bank, centre SCOPE QTY : 213 sq.m RESOURCES: labour, glass PREDECESSOR ACTIVITY: plastering	ACTIVITY NAME: Finish coat painting LOCATION : Int SCOPE QTY : 3475 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling										
ACTIVITY NAME: False ceiling frame LOCATION : FF Interior SCOPE QTY : 292 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Plastered ceiling	ACTIVITY NAME: False ceiling Grid LOCATION : GF Interior SCOPE QTY : 292 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: False ceiling frame				ACTIVITY NAME: False ceiling LOCATION : FF Interior SCOPE QTY : 292 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: False ceiling frame	ACTIVITY NAME: False ceiling LOCATION : Terrace Dining SCOPE QTY : 50 sq.m RESOURCES: labour, fabricated section PREDECESSOR ACTIVITY: Ceiling plastering								

4. POLYHOSE, SUNGUVARCHATRAM

4.1 NEIGHBORHOOD STUDY

Schools and Colleges	Hotels	Manufacturers Electronics	Manufacturers Automotive	Manufacturers Polymers	Manufacturers Others
Maharishi International Residential school	Fairfeild by Marriott	Foxconn Technology (India) Private Limited	Royal Enfield Manufacturing Plant	Unitech Plasto Components Private Limited	Wittur Elevator Components India Pvt Ltd
Ryan International school	Hudson Resort, Villa & Spa	Motorola Manufacturing Unit	Motherson Automotive Technologies And Engineering	Roop Polymers LTD	Asian Paints Limited
St. Joseph Residential school	Sathyam Grand resort	Samsung India Electronics Pvt Ltd	Caparo Engineering India Ltd	Vignesh Polymers Unit 1 - Head Office & Factory	PPG Asian Paints Private Limited
Sri Venkateshwara College of Engineering	Citrus Hotel	Salcomp manufacturing india pvt ltd	Hinduja Foundries Ashok Leyland		Voltech transformer Manufacturer
Jeppiaar Institute of Technology		Dell International Services India Private Limited	India Yamaha Motor Pvt Ltd		Nippon Paint India Pvt Ltd factory
Arignar Anna Institute Of Science And Technology		Hensel Electric India Pvt. Ltd	Roop Automotives Ltd		Preipolar Engineering Private Limited
			SMRC Automotive Products India Private Limited		
			Johoku Manufacturing Pvt Ltd		
			Gestamp Automotive Chennai Pvt Ltd		

BASED ON PROPOSED SECOND AIRPORT IN CHENNAI

- Pannur – about 6km from site
- Parandur – about 25km from site

The new airport will require 4,500 acres and will be developed as an aero city. It will have facilities for aircraft maintenance and space for units to make auxiliary items. Once the airport is built, it will increase the demand for Hotels, Commercial real estate, Co Working spaces and Rental housing as business opportunities will increase

BASED ON NEIGHBORHOOD

The neighborhood mostly consist of manufacturing industry for some of the major players in Indian Market. Thus

- Rental Warehouse spaces
- Posh yet Affordable hotels
- Multi purpose halls (can be used as training centre)

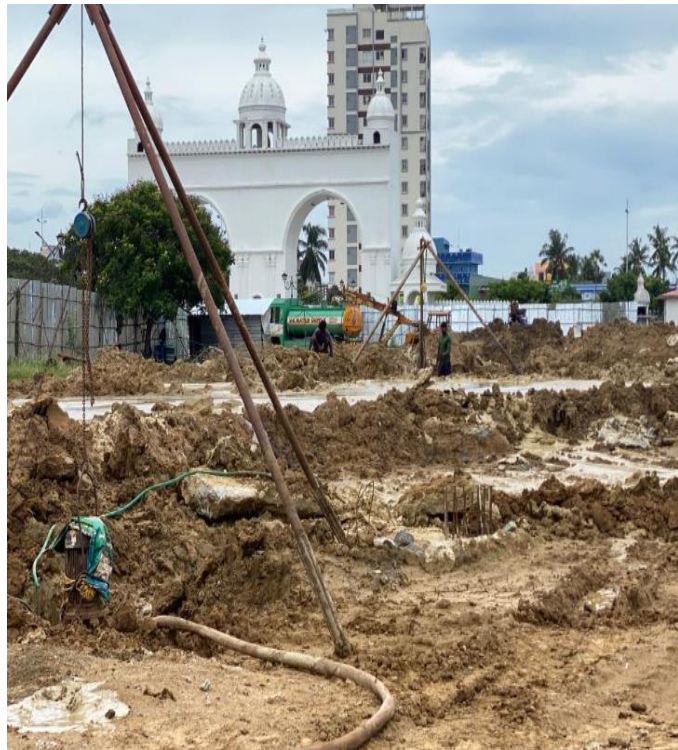
Will yield high income in this surrounding in the near future.

5. CONVENTION CENTER, SIST, CHENNAI

5.1 ABOUT THE PROJECT

CLIENT	Sathyabama Institute of science and Technology
ARCHITECTS	EPMCR Pvt Ltd, Chennai, India
PMC	EPMCR Pvt Ltd, Chennai, India
STAKEHOLDERS	SIST, EPMCR, Sri Thillai Kaliyamman Pile Foundation
STATUS	
LOCATION	Chennai, Tamil Nadu
DURATION	2 years approx.
PROJECT STATUS	On going (pile foundation work)
TPOLOGY	Institutional Building Convention Center with 3500 seating (approx.)

Marking, clearing & draining out water



Pile Boring



Placing reinforcement



Concreting



6. ATHER ENERGY, HOSUR

6.1 ABOUT THE PROJECT

CLIENT	Ather Energy Pvt Ltd, Bangalore, India.
ARCHITECTS	EPMCR Pvt Ltd, Chennai, India
PMC	EPMCR Pvt Ltd, Chennai, India
STAKEHOLDERS	Ather Energy, EPMCR, TVS, Adya Interiors, Sharp construction, VMR steel, other vendors (HVAC, Fire, PA system, IT team) and Shri Vignesh Electricals
STATUS	
LOCATION	Hosur, Tamil Nadu
DURATION	2 months (01/08/2022 to 30/09/2022)
PROJECT STATUS	On going
TPOLOGY	Industrial Building



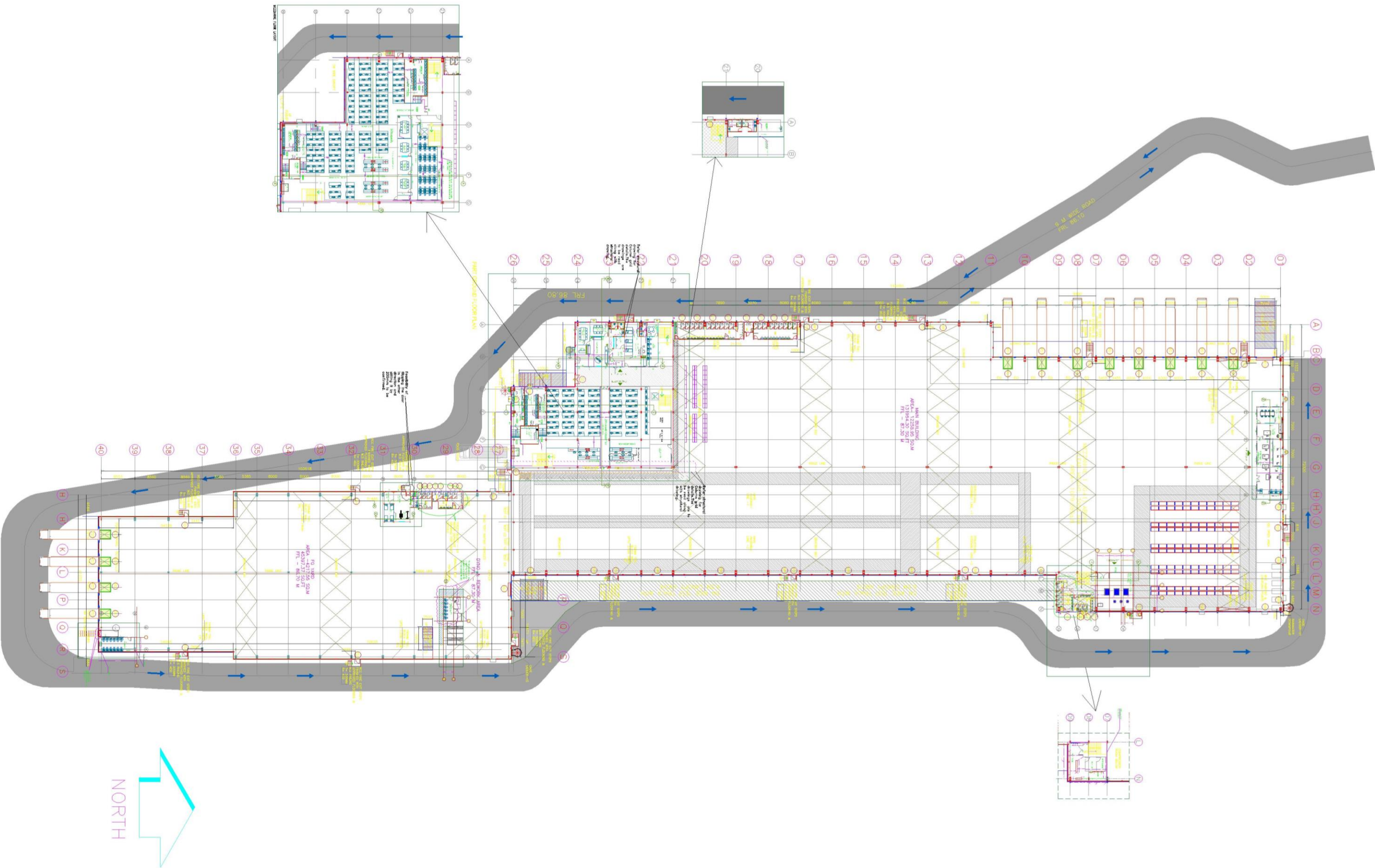
Interior fitout project



PROPOSED INTERIOR WORKS INSIDE THE FACTORY BUILDING FOR ATHER ENERGY PVT LTD.,			
SL No.	DESCRIPTION	UNITS	QUANTITY
1	FALSE CEILING WORKS:		
A	8mm thick calcium silicate	Sqm	1000
B	Wooden Finish	Sqm	200
C	Acoustic hanging baffles	Sqm	200
D	Under deck thermal insulation	Sqm	200
2	INTERNAL PATITION WORKS:		
A	96mm thick Hilux Calcium silicate board	Sqm	1520
B	12mm thick Hilux Calcium silicate board	Sqm	850
C	Detachable partition	Sqm	80
D	Acoustic lining on walls	Sqm	300
E	Foldable partition flush	Sqm	16
F	120mm thick 2 hrs fire rated full height partition	Sqm	184
3	PAINTING WORKS:		
A	Two coats of Interior Emulsion paint	Sqm	3890
B	One coat of fire rated paint	Sqm	184
C	Two coats of washable Interior Enamel paint	Sqm	1000
4	JOINERY:		
A	Aluminium frame with single leaf partly glazed (openable door)	Sqm	QRO
B	Aluminium frame with double leaf partly glazed (openable door)	Sqm	4.8
C	Aluminium frame with partly glazed (sliding door)	Sqm	8
D	Fully glazed openable door (Dorma Alexa)	Sqm	45
E	Fully glazed openable door (Dorma Agile)	Sqm	15
F	Steel door single/double shutters	Sqm	QRO
G	2 hours fire rated swing door (Single Leaf)	Sqm	7
H	2 hours fire rated swing door (Double Leaf)	Sqm	15
I	2 hours fire rated sliding door (Single leaf)	Sqm	5
J	8 mm thick toughened glazing	Sqm	143
K	Awning window	Sqm	10
5	FLOORING:		
A	Wooden flooring	Sqm	100
B	5 mm thick Carpet flooring	Sqm	296
C	25 mm thick interlocking EVA foam padding mat tiles	Sqm	100
D	8 mm thick rubber flooring	Sqm	100
E	2 mm thick vinyl flooring	Sqm	100
F	Metallic false flooring system	Sqm	15
G	100 mm high TORO Aluminium Skirting Trims	Sqm	600

6. ATHER ENERGY, HOSUR

6.2 OVERALL LAYOUT



6. ATHER ENERGY, HOSUR

6.3 PROCUREMENT LIST

ATHER ENERGY										
PROCUREMENT LIST										
S.No	LOCATION / ROOM	Furnitures	No. of Furnitures	Flooring materials	False ceiling	Partition wall material	Door	Fixtures	No. of Fixtures	Electrical devices
1	EHS room	Work stations	5	Carpet flooring	Grid FC	Paint The lengthier wall should writable board similar to existing factory	Glass door	Water dispenser	1	Light, Fan
		Repro table for printer	1							
		Repro table with storage	1							
2	EHS Meeting room	4 seater round conference table	1	Carpet flooring	Grid FC	Paint	Glass door			Light, Fan, AC
		Exe chairs				The TVS wall should writable board similar to existing factory				
						TV to be mounted -55"				
3	Medical room	Chairs	3		Grid FC	Calcium silicate, Fixed glass	Flush door with vision panel			Light, Fan
		Table	1							
		Rotating chair for patient	1							
		Patient Beds + Mattress	3							
		Privacy curtains	As per req.							
		Nebulizer								
		oxygen cylinder								
		water dispenser								
3.1	Medical room waiting	Sofa	1	vinyl flooring	Grid FC	Clear Fixed glass	Flush door with vision panel			Light,Fan
3.2	Medical room wash			Tiles	Grid FC	Brick wall		Wash basin with mirror	1	Light
3.3	Medical room toilet			Tiles	Grid FC	Brick wall (tiling till 7")	Flush door	Wash basin	2	Light
								Hand dryer	1	
								Geyser for hand dryer	1	
4	Frisking room	Privacy curtains	As per req.	Vinyl flooring	Grid FC	Calcium silicate		Wc		Light
5	BMS & visitor equipment storage room	Storage cupboard	1	Grey color Tiles	Grid FC	Paint enamel	Flush door with vision panel			Light, fan
						CCTV Monitor-3 nos - 32"				
6	Server room	Table & chair for security + pedestal	1	False flooring	Grid FC	Paint	Flush door with vision panel			Light, AC
7	Reception & waiting	Reception counter	1	Wooden plank tiles	Grid ceiling with wooden rafters	Exposed concrete finish	Flush door with vision panel & Glass sliding door	Water dispenser		Light, Fan, AC
		Sofa set	2							
		Centre table	1							
		Podium for display bike								
7.1	Reception & waiting - wash			Tiles	Grid FC	Brick wall			1	Light
7.2	Reception & waiting - toilet			Grey color Tiles	Grid FC	Brick wall (tiling till 7")	Flush door	Wash basin with mirror	1	Light
7.3	Reception & waiting - toilet			Grey color Tiles	Grid FC	Brick wall (tiling till 7")	Flush door	Gully trap in floor	1	Light
								Wc		
8	Meeting room 01	6 seaters conference table	1	Carpet flooring	Grid ceiling with wooden rafters	The lengthier wall should writable board similar to existing factory	Glass door	Gully trap in floor		Light, Fan, AC
						TV to be mounted 55"				
9	Meeting room 02	8 seaters conference table	1	Carpet flooring	Grid ceiling with wooden rafters	The lengthier wall should writable board similar to existing factory	Glass door			Light, Fan, AC

6. ATHER ENERGY, HOSUR

6.3 PROCUREMENT LIST

						TV to be mounted 55"				
10	Admin area				Grid FC					
11	Maintenance room				Grid FC					
12	Shop floor office	Linear workstation with chairs		Epoxy	Grid FC	The lengthier wall should writable board similar to existing factory Glass panels windows TV to be mounted -55"		Water dispenser		
13	Canteen	Tables and Chairs	214 chairs	Epoxy flooring - Not to be included in Interior BOQ	Open ceiling	Enamel paint	Flush door with vision panel	Plates & spoons Water bottles water dispenser	3	Light, Fan, AC
		Tea table	1					coffee dispenser		
		Bain marie	4					Wash basin with touch free taps & mirror + Privacy panel for wash basins		
		SS perforated privacy screening						Food waste bins		
13.1	Handwash area			Grey anti skid tiles	Open ceiling	Tiling till 8'		Plate Pass through to be cladded with Granite		Light
13.2	Utensil washing area			Grey anti skid tiles Consider flooring items	Open ceiling	Tiling till 8'	Flush door with vision panel	Pot sink Dish washer Grease trap Plate rack	3	Light
13.3	Food receiving area & dry pantry			Grey anti skid tiles	Open ceiling	Tiling till 8'	Flush door with vision panel	Dry pantry counter Coffee vending machine		Light
14	Lift				Grid FC					
15	Mezzanine				Grid FC					
15.1	Mezzanine office	Work stations	40	Carpet flooring	Grid ceiling	partially frosted Fixed glass	Glass door	water dispenser Coffee vending machine		Light, fan, AC
		Pedestals for 50% capacity	1							
		Storage								
		Repro table with storage								
15.2	Mezzanine - meeting room 01	Meeting room table w	1	Carpet flooring	Grid ceiling with wood	The lengthier wall should writable board similar to existing factory TV to be mounted -55"	Glass door			Light, fan, AC
15.3	Mezzanine - meeting room 02	Meeting room table w	1	Carpet flooring	Grid ceiling with wood	The lengthier wall should writable board similar to existing factory TV to be mounted -55"	Glass door			Light, fan, AC
15.4	Mezzanine - meeting room 03	Meeting room table w	1	Carpet flooring	Grid ceiling with wood	The lengthier wall should writable board similar to existing factory TV to be mounted -55"	Glass door			Light, fan, AC
15.5	Mezzanine - meeting room 04	Meeting room table w	1	Carpet flooring	Grid ceiling with wood	The lengthier wall should writable board similar to existing factory TV to be mounted -55"	Glass door			Light, fan, AC
15.6	Mezzanine canteen	Tables and Chairs	304 chairs	Epoxy not to be considered for interior BOQ	Insulated ceiling	Paint	Flush door with vision panel	Plates & spoons Water bottles water dispenser	3	Light, fan, AC
		Bain marie								
		SS perforated privacy screening								

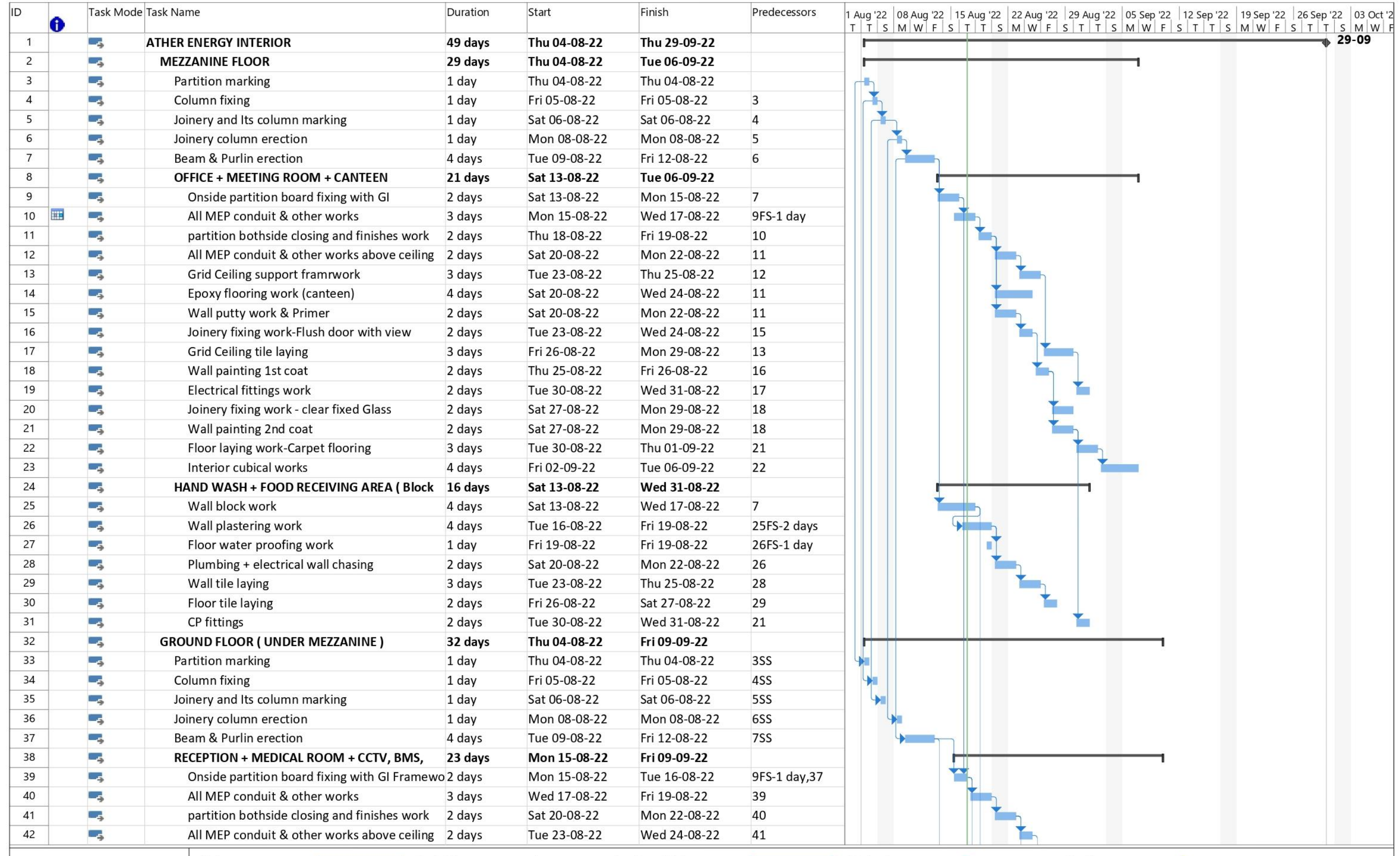
6. ATHER ENERGY, HOSUR

6.3 PROCUREMENT LIST

15.7	Mezzanine handwash (near office)			Grey anti skid tiles	Open ceiling	Tiling till 8'		Wash basin with touch free taps & mirror + Privacy panel for wash basins Food waste bins Plate Pass through to be cladded with Granite		Light
15.8	Mezzanine handwash			Grey anti skid tiles	Open ceiling	Tiling till 8'		Wash basin with touch free taps & mirror + Privacy panel for wash basins Food waste bins Plate Pass through to be cladded with Granite		Light
15.10	Mezzanine - Food receiving area & dry pantry			Grey anti skid tiles	Open ceiling	Tiling till 8'	Flush door with vision panel	Dry pantry counter Coffee vending machine		Light
	Mezzanine - waste bin collection area			Grey anti skid tiles	Open ceiling	Tiling till 8'	Flush door with vision panel			Light
16	Electrical lab & Metrology lab	Surface table	5	Grano flooring	Grid FC	Clear fixed glass	Flush door with vision panel & Glass sliding door			Light, fan, AC
		Working table	1							
		Office table	4							
		Manager table	1							
17	SST, polishing & cutting area			vinyl flooring	Grid FC	Partly glazed & partly panelled aluminium partition	Glass sliding door			Light, fan
18	CMM Room			vinyl flooring	Grid FC	Calcium silicate & Partly glazed & partly panelled aluminium partition & clear fixed glass	Flush door with vision panel			Light, fan, AC
19	store office area	Linear workstation face to face working		Epoxy	Grid FC	Paint The lengthier wall should be writable board similar to existing factory Glass panels windows TV to be mounted -55"	Flush door with vision panel	water dispenser		Light, fan, AC
20	IQC Area			Epoxy	Grid ceiling	Paint		Water dispenser Work table		
21	Creche									
21.1	Creche room	Bed with mattress		Foam flooring	Grid FC	TV to be mounted -55"				Light, fan, AC
		Toys				Writable wall from ffl to 4ft				
		single seater sofa								
21.2	Creche room - Toilet			Tiles	Grid FC	Tiling		Water heater Fitting with plumbing Hand dryer	1	Light
21.3	Creche room - Baby feeding room			Tiles	Grid FC	Calcium silicate	Flush door	WC		Light, fan
21.4	Creche room - Beds area	Bed with mattress	4	vinyl flooring	Grid FC	Calcium silicate	Curtain screening			
22	Electrical panel room			Rubber mat flooring	Grid FC	Paint				
23	Compressor room			Epoxy	Accoustic roof	Accoustic wall	Accoustic door			Light

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6.4 SCHEDULE



6. ATHER ENERGY, HOSUR

6.4 SCHEDULE

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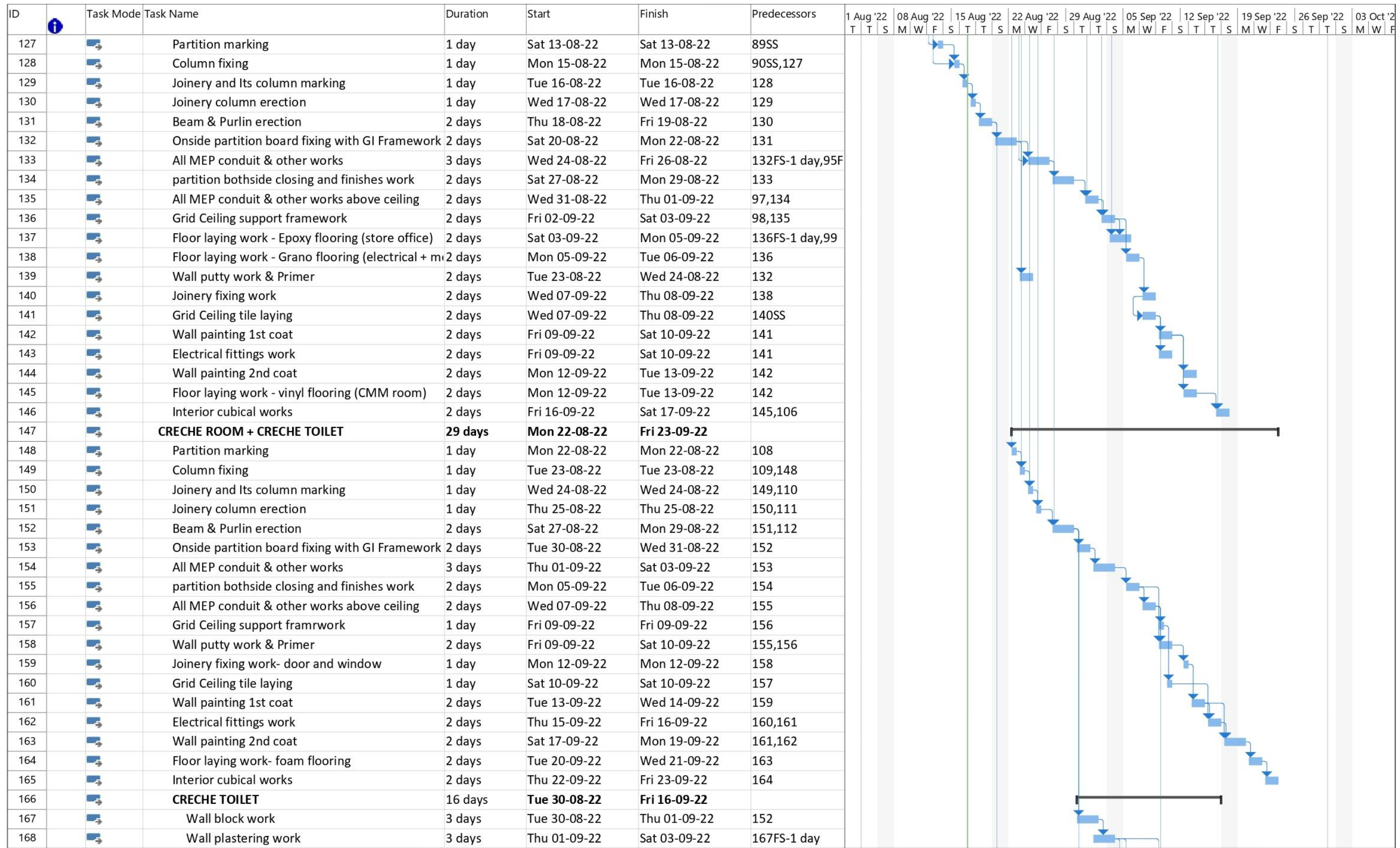
6. ATHER ENERGY, HOSUR

6.4 SCHEDULE

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1 Aug '22	08 Aug '22	15 Aug '22	22 Aug '22	29 Aug '22	05 Sep '22	12 Sep '22	19 Sep '22	26 Sep '22	03 Oct '22
							T	T	S	M	W	F	S	T	T	S
85		Wall tile laying	3 days	Tue 30-08-22	Thu 01-09-22	84,60										
86		Floor tile laying	2 days	Fri 02-09-22	Sat 03-09-22	85										
87		CP fittings and joinery fitting	2 days	Mon 05-09-22	Tue 06-09-22	86										
88		COMPRESSOR ROOM	29 days	Sat 13-08-22	Thu 15-09-22											
89		Partition marking	1 day	Sat 13-08-22	Sat 13-08-22	37										
90		Column fixing	2 days	Sat 13-08-22	Mon 15-08-22	89SS										
91		Joinery and Its column marking	1 day	Tue 16-08-22	Tue 16-08-22	90										
92		Joinery column erection	1 day	Wed 17-08-22	Wed 17-08-22	91										
93		Beam & Purlin erection	2 days	Thu 18-08-22	Fri 19-08-22	92										
94		Onside partition board fixing with GI Framework	2 days	Sat 20-08-22	Mon 22-08-22	93										
95		All MEP conduit & other works	3 days	Tue 23-08-22	Thu 25-08-22	94										
96		partition bothside closing and finishes work	2 days	Fri 26-08-22	Sat 27-08-22	95										
97		All MEP conduit & other works above ceiling	2 days	Mon 29-08-22	Tue 30-08-22	96										
98		Grid Ceiling support framework	1 day	Wed 31-08-22	Wed 31-08-22	97										
99		Epoxy flooring work	2 days	Thu 01-09-22	Fri 02-09-22	70,98										
100		Wall putty work & Primer	2 days	Sat 03-09-22	Mon 05-09-22	99										
101		Joinery fixing work	1 day	Tue 06-09-22	Tue 06-09-22	100										
102		Grid Ceiling tile laying	1 day	Tue 06-09-22	Tue 06-09-22	101SS										
103		Wall painting 1st coat	2 days	Wed 07-09-22	Thu 08-09-22	101,102										
104		Electrical fittings work	2 days	Fri 09-09-22	Sat 10-09-22	103										
105		Wall painting 2nd coat	2 days	Mon 12-09-22	Tue 13-09-22	104										
106		Interior cubical works	2 days	Wed 14-09-22	Thu 15-09-22	105										
107		PANEL ROOM,UPS & BATTERY	23 days	Sat 20-08-22	Thu 15-09-22											
108		Partition marking	1 day	Sat 20-08-22	Sat 20-08-22	93										
109		Column fixing	2 days	Sat 20-08-22	Mon 22-08-22	108SS										
110		Joinery and Its column marking	1 day	Tue 23-08-22	Tue 23-08-22	109										
111		Joinery column erection	1 day	Wed 24-08-22	Wed 24-08-22	110										
112		Beam & Purlin erection	2 days	Thu 25-08-22	Fri 26-08-22	111										
113		Onside partition board fixing with GI Framework	2 days	Sat 27-08-22	Mon 29-08-22	112										
114		All MEP conduit & other works	3 days	Tue 30-08-22	Thu 01-09-22	113										
115		partition bothside closing and finishes work	2 days	Fri 02-09-22	Sat 03-09-22	114										
116		All MEP conduit & other works above ceiling	2 days	Mon 05-09-22	Tue 06-09-22	115										
117		Grid Ceiling support framework	1 day	Wed 07-09-22	Wed 07-09-22	116										
118		Wall putty work & Primer	2 days	Mon 05-09-22	Tue 06-09-22	115										
119		Joinery fixing work	1 day	Tue 06-09-22	Tue 06-09-22	118FS-1 day										
120		Grid Ceiling tile laying	1 day	Thu 08-09-22	Thu 08-09-22	117										
121		Wall painting 1st coat	2 days	Wed 07-09-22	Thu 08-09-22	119										
122		Electrical fittings work	2 days	Thu 08-09-22	Fri 09-09-22	121FS-1 day										
123		Wall painting 2nd coat	2 days	Fri 09-09-22	Sat 10-09-22	121										
124		Flooring- rubber mat	2 days	Mon 12-09-22	Tue 13-09-22	123										
125		Interior cubical works	2 days	Wed 14-09-22	Thu 15-09-22	124										
126		ELECTRICAL AND METROLOGY LAB, STORE OFFICE	31 days	Sat 13-08-22	Sat 17-09-22											

6. ATHER ENERGY, HOSUR

6.4 SCHEDULE



6. ATHER ENERGY, HOSUR

6.4 SCHEDULE

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1 Aug '22	08 Aug '22	15 Aug '22	22 Aug '22	29 Aug '22	05 Sep '22	12 Sep '22	19 Sep '22	26 Sep '22	03 Oct '22
							T	T	S	M	W	F	S	T	T	S
169		Joinery measurement	1 day	Sat 03-09-22	Sat 03-09-22	168FS-1 day										
170		Floor water proofing work	1 day	Mon 05-09-22	Mon 05-09-22	168										
171		Plumbing + electrical wall chasing	2 days	Fri 09-09-22	Sat 10-09-22	156,168										
172		Wall tile laying	2 days	Mon 12-09-22	Tue 13-09-22	171										
173		Floor tile laying	2 days	Wed 14-09-22	Thu 15-09-22	172										
174		CP fittings	1 day	Fri 16-09-22	Fri 16-09-22	173										
175		Joinery fixing	1 day	Fri 16-09-22	Fri 16-09-22	173										
176		OFFICE ROOM-1	26 days	Sat 20-08-22	Mon 19-09-22											
177		Partition marking	1 day	Sat 20-08-22	Sat 20-08-22	131										
178		Column fixing	1 day	Sat 20-08-22	Sat 20-08-22	177SS										
179		Joinery and Its column marking	1 day	Mon 22-08-22	Mon 22-08-22	178										
180		Joinery column erection	1 day	Mon 22-08-22	Mon 22-08-22	179SS										
181		Beam & Purlin erection	2 days	Tue 23-08-22	Wed 24-08-22	180										
182		Onside partition board fixing with GI Framework	2 days	Thu 25-08-22	Fri 26-08-22	181										
183		All MEP conduit & other works	3 days	Sat 27-08-22	Tue 30-08-22	182										
184		partition bothside closing and finishes work	2 days	Wed 31-08-22	Thu 01-09-22	183										
185		All MEP conduit & other works above ceiling	2 days	Fri 02-09-22	Sat 03-09-22	184										
186		Grid Ceiling support framework	1 day	Mon 05-09-22	Mon 05-09-22	185										
187		Wall putty work & Primer	2 days	Mon 05-09-22	Tue 06-09-22	186SS										
188		Joinery fixing work	1 day	Wed 07-09-22	Wed 07-09-22	187										
189		Grid Ceiling tile laying	2 days	Thu 08-09-22	Fri 09-09-22	188,186										
190		Wall painting 1st coat	2 days	Fri 09-09-22	Sat 10-09-22	189FS-1 day										
191		Electrical fittings work	1 day	Mon 12-09-22	Mon 12-09-22	190										
192		Wall painting 2nd coat	2 days	Tue 13-09-22	Wed 14-09-22	191										
193		Flooring- Vinyl flooring	2 days	Thu 15-09-22	Fri 16-09-22	192										
194		Interior cubical works	2 days	Sat 17-09-22	Mon 19-09-22	193										
195		OFFICE ROOM-2	27 days	Mon 22-08-22	Wed 21-09-22											
196		Partition marking	1 day	Mon 22-08-22	Mon 22-08-22	177										
197		Column fixing	1 day	Mon 22-08-22	Mon 22-08-22	196SS										
198		Joinery and Its column marking	1 day	Tue 23-08-22	Tue 23-08-22	197,179										
199		Joinery column erection	1 day	Tue 23-08-22	Tue 23-08-22	198SS										
200		Beam & Purlin erection	2 days	Wed 24-08-22	Thu 25-08-22	199										
201		Onside partition board fixing with GI Framework	2 days	Fri 26-08-22	Sat 27-08-22	200										
202		All MEP conduit & other works	3 days	Tue 30-08-22	Thu 01-09-22	183FS-1 day,201										
203		partition bothside closing and finishes work	2 days	Fri 02-09-22	Sat 03-09-22	202										
204		All MEP conduit & other works above ceiling	2 days	Mon 05-09-22	Tue 06-09-22	203,185										
205		Grid Ceiling support framework	1 day	Wed 07-09-22	Wed 07-09-22	204,186										
206		Wall putty work & Primer	2 days	Wed 07-09-22	Thu 08-09-22	205SS										
207		Joinery fixing work	1 day	Thu 08-09-22	Thu 08-09-22	206FS-1 day										
208		Grid Ceiling tile laying	2 days	Fri 09-09-22	Sat 10-09-22	207										
209		Wall painting 1st coat	2 days	Mon 12-09-22	Tue 13-09-22	190,208										
210		Electrical fittings work	1 day	Wed 14-09-22	Wed 14-09-22	209										

6. ATHER ENERGY, HOSUR

6.4 SCHEDULE

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	1 Aug '22	08 Aug '22	15 Aug '22	22 Aug '22	29 Aug '22	05 Sep '22	12 Sep '22	19 Sep '22	26 Sep '22	03 Oct '22
211		Wall painting 2nd coat	2 days	Thu 15-09-22	Fri 16-09-22	210	T	T	S							
212		Flooring- Vinyl flooring	2 days	Sat 17-09-22	Mon 19-09-22	211										
213		Interior cubical works	2 days	Tue 20-09-22	Wed 21-09-22	212										
214		SERVER ROOM	27 days	Tue 30-08-22	Thu 29-09-22											
215		Partition marking	1 day	Tue 30-08-22	Tue 30-08-22	152										
216		Column fixing	1 day	Tue 30-08-22	Tue 30-08-22	215SS										
217		Joinery and Its column marking	1 day	Wed 31-08-22	Wed 31-08-22	216										
218		Joinery column erection	1 day	Wed 31-08-22	Wed 31-08-22	217SS										
219		Beam & Purlin erection	2 days	Thu 01-09-22	Fri 02-09-22	218										
220		Onside partition board fixing with GI Framework	1 day	Sat 03-09-22	Sat 03-09-22	219										
221		All MEP conduit & other works	3 days	Mon 05-09-22	Wed 07-09-22	220										
222		partition bothside closing and finishes work	1 day	Thu 08-09-22	Thu 08-09-22	221										
223		All electrical raceway work	2 days	Fri 09-09-22	Sat 10-09-22	221,222										
224		False flooring	2 days	Mon 12-09-22	Tue 13-09-22	223										
225		All MEP conduit & other works above ceiling	2 days	Wed 14-09-22	Thu 15-09-22	224										
226		Grid Ceiling support framework	1 day	Fri 16-09-22	Fri 16-09-22	225										
227		Wall putty work & Primer	2 days	Sat 17-09-22	Mon 19-09-22	226										
228		Joinery fixing work	1 day	Tue 20-09-22	Tue 20-09-22	227										
229		Grid Ceiling tile laying	2 days	Tue 20-09-22	Wed 21-09-22	228SS										
230		Wall painting 1st coat	2 days	Thu 22-09-22	Fri 23-09-22	229										
231		Electrical fittings work	1 day	Sat 24-09-22	Sat 24-09-22	230										
232		Wall painting 2nd coat	2 days	Mon 26-09-22	Tue 27-09-22	231										
233		Interior cubical works	2 days	Wed 28-09-22	Thu 29-09-22	232										
234		TOILET NEAR SERVER ROOM	19 days	Sat 03-09-22	Sat 24-09-22											
235		Wall block work	4 days	Sat 03-09-22	Wed 07-09-22	219										
236		Wall plastering work	4 days	Tue 06-09-22	Fri 09-09-22	235FS-2 days										
237		Joinery measurement	1 day	Sat 10-09-22	Sat 10-09-22	236										
238		Floor water proofing work	2 days	Sat 10-09-22	Mon 12-09-22	236										
239		Plumbing + electrical wall chasing	3 days	Tue 13-09-22	Thu 15-09-22	236,238,221,223										
240		Wall tile laying	4 days	Fri 16-09-22	Tue 20-09-22	239										
241		Floor tile laying	3 days	Tue 20-09-22	Thu 22-09-22	240FS-1 day										
242		CP fittings	2 days	Fri 23-09-22	Sat 24-09-22	241										
243		Joinery fixing	2 days	Fri 23-09-22	Sat 24-09-22	241										

6. ATHER ENERGY, HOSUR

6.5 MATERIAL SELECTION

Kajaria – Delphi

Finish – Premium matt

Thickness – 9mm

Size –

- 60*60 cm
- 80*120 cm
- 80*80 cm



- TAUPE

- GREY

- GRIS

- NERO

Kajaria Delphi Gris



Kajaria Delphi Nero



Kajaria Delphi Grey

Kajaria – Tresor

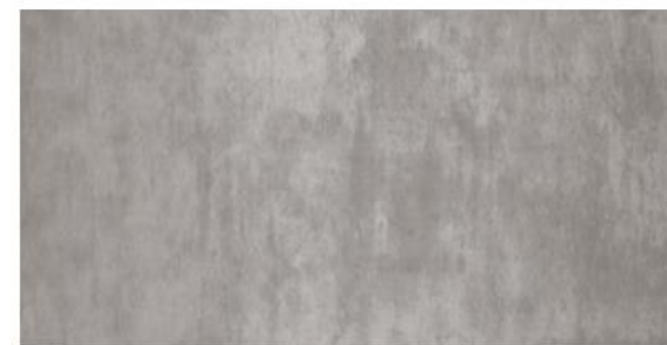
- Tresor Gris for floor
- Tresor Grey for wall

Finish – Polished

Thickness – 9mm

Size –

- 60*120 cm



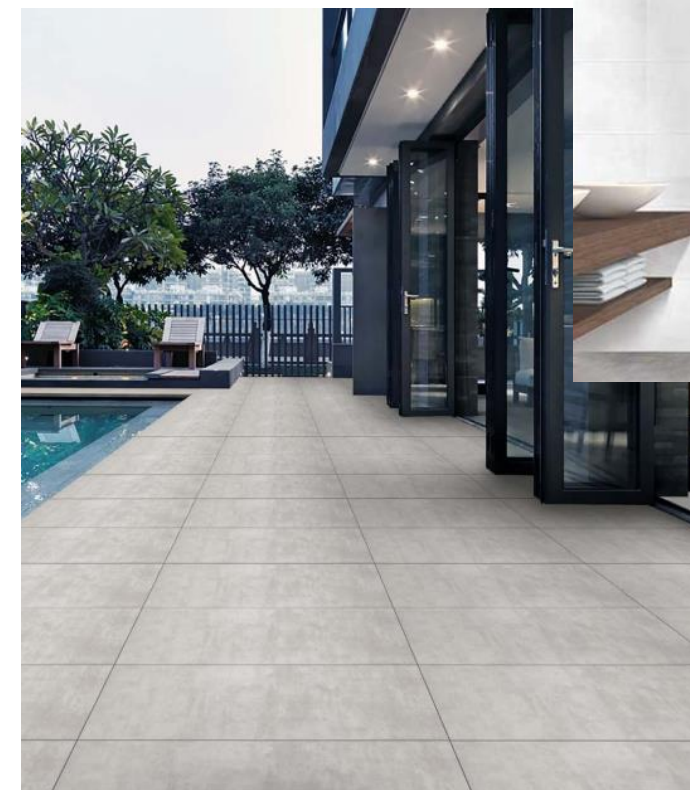
TRESOR GRIS

POLISHED



TRESOR GREY

POLISHED



Kajaria Tresor Grey

6. ATHER ENERGY, HOSUR

6.5 MATERIAL SELECTION

Kajaria – Oslo

- Oslo Gris for floor
- Oslo Marfil for wall

Finish – Matt & Polished
Thickness – 9mm
Size –

- 80*120cm

Kajaria Eternity's Glazed vetrified tiles



OSLO GRIS

MATT



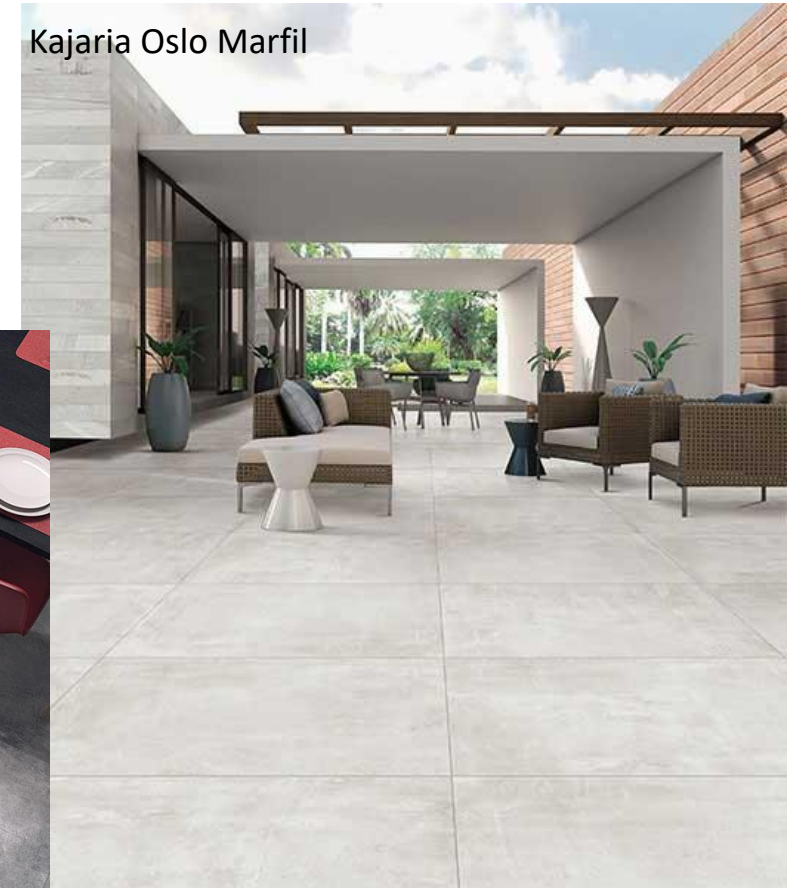
OSLO MARFIL

MATT



Kajaria Oslo Gris

Kajaria Oslo Marfil



Kajaria – Pietra

- Pietra Antracita for floor
- Pietra Perla for wall

Finish – Matt, Premium matt,
Polished & Stone
Thickness – 9mm
Size –

- 60*60 cm



PIETRA PERLA

MATT



PIETRA ANTRACITA

PREMIUM
MATT



Kajaria Pietra Perla



7. IIT RESEARCH PARK, MADRAS

7.1 FORTNIGHT PLAN

Client: IIT Madras					
Architect: Varsha & Pradeep					
PMC: EPMCR Pvt Ltd					
Stakeholders: RM Engineering, Civitech, Consultants and Contractors (HVAC, Electrical, Plumbing and Fire), EPMCR, IITM, Varsha & Pradeep					
DURATION - 90 days					
FORTNIGHT 1	FORTNIGHT 2	FORTNIGHT 3	FORTNIGHT 4	FORTNIGHT 5	FORTNIGHT 6
18/07/22 to 02/08/22	03/08/22 to 18/08/22	19/08/22 to 03/09/22	04/09/22 to 19/09/22	20/09/22 to 05/10/22	06/10/22 to 21/10/22
Ceiling paint (zone 1 & 2) (5+5d) Drop Partition Screed Concrete (Zone1) (29,30,31) Electrical Conduit (Zone1 - Raceway) (Zone2 - Ceiling) Modular Furniture & partition marking	FAs, sprinkler and PAs (zone 1) Screed concrete (zone2) Cold water line (zone 1) Electrical Conduit(Zone2 - Raceway) (Zone1 - Ceiling) Electrical wiring (Zone 2) CCTV HVAC (zone 2)	FAs, sprinkler and PAs (zone 2) Cold water line (zone 2) CSU HVAC Module 1,2,3,4 Electrical wiring (Zone 1) CCTV HVAC Duct (zone 1)	CSU HVAC Module 5,6,7,8,9 HVAC Insulation cladding Aerocon partition Floor polishing False ceiling	Glass partition Floor polishing Furnishing False ceiling	
SCOPE OF WORK					
Proposed consolidated work break up cum coordinated schedule for proposed small office space inside IIT research park, Madras (D block, 4th floor).					
Work to be done:					
Flooring (concrete floor) Partition wall (glass and aerocon) Grid false ceiling MEP work Fire protection, PA system and CCTV Modular Furniture					

8. SEWAGE SYSTEM TO MANALI, KARAMBAKKAM, CHINNASEKKADU AND MANAPAKKAM IN CHENNAI

8.1 SCOPE OF THE PROJECT

Client	CMWSS Board
Contractor	Subaya Constructions Company Limited

Providing comprehensive sewage scheme to Manali, Chinnasekkadu, Karambakkam and Manapakkam in Chennai city.						
Schedule	30/04/2019 to 12/10/2021			Revised date: Feb 2022 to Oct 2022		
S.No	SCOPE OF WORK	UNIT	QUANTITY	SITE AVAILABLE	WORK COMPLETED	BALANCE
1	Construction of man holes (depth upto 3.5m)	nos.	3838	3237	2150	1087
2	Construction of man holes (depth above 3.5m)	nos.	470			
3	Supplying, laying, jointing and testing of sewer pipes (depth upto 3.5m)	mtr	100364	71599	41138	30461
4	Supplying, laying, jointing and testing of pipes (depth above 3.5m)	mtr	13235			
5	Supplying, laying, jointing and testing of pipes for pump main	mtr	28370	3112	2525	587
6	Construction of pumping station (screen, grit, suction, pump room)			17	0	17
7	Electro Mechanical					
8	House service connection	mtr	191946			
9	Pumping main special, B.T & C.C cutting, Baricadding, Bedding, Refilling, Disposal			17	28%	72%
10	Commissioning and trial running					

Interpretation of the Project Schedule based on the information given in Contract Document			
Original Project duration - 896 days (30/04/2019 to 12/10/2021)			
Client : Chennai Metropolitan Water Supply and Sewerage Board			
Contractor : Subaya Construction Company Limited			
ACTIVITY	%	START	FINISH
MILESTONE 1			
COLLECTION SYSTEM			
PE /PP PIPE LAYING INCLUDING MANHOLES	15.00%	1-May-2019	31-Oct-2019
CI PIPE LAYING INCLUDING MANHOLES	5.00%	1-May-2019	31-Oct-2019
PUMPING STATION	5.00%	1-May-2019	31-Oct-2019
PUMPING MAIN	0.00%	1-May-2019	31-Oct-2019
MILESTONE 2			
COLLECTION SYSTEM			
PE /PP PIPE LAYING INCLUDING MANHOLES	40.00%	1-Nov-2019	30-Apr-2020
CI PIPE LAYING INCLUDING MANHOLES	30.00%	1-Nov-2019	30-Apr-2020
PUMPING STATION	25.00%	1-Nov-2019	30-Apr-2020
PUMPING MAIN	10.00%	1-Nov-2019	30-Apr-2020
MILESTONE 3			
COLLECTION SYSTEM			
PE /PP PIPE LAYING INCLUDING MANHOLES	65.00%	1-May-2020	31-Oct-2020
CI PIPE LAYING INCLUDING MANHOLES	65.00%	1-May-2020	31-Oct-2020
PUMPING STATION	60.00%	1-May-2020	31-Oct-2020
PUMPING MAIN	40.00%	1-May-2020	31-Oct-2020
MILESTONE 4			
COLLECTION SYSTEM			
PE /PP PIPE LAYING INCLUDING MANHOLES	85.00%	1-Nov-2020	30-Apr-2021
CI PIPE LAYING INCLUDING MANHOLES	85.00%	1-Nov-2020	30-Apr-2021
PUMPING STATION	90.00%	1-Nov-2020	30-Apr-2021
PUMPING MAIN	90.00%	1-Nov-2020	30-Apr-2021
MILESTONE 5			
COLLECTION SYSTEM			
PE /PP PIPE LAYING INCLUDING MANHOLES	100.00%	1-May-2021	30-Sep-2021
CI PIPE LAYING INCLUDING MANHOLES	100.00%	1-May-2021	30-Sep-2021
PUMPING STATION	100.00%	1-May-2021	30-Sep-2021
PUMPING MAIN	100.00%	1-May-2021	30-Sep-2021

8. SEWAGE SYSTEM TO MANALI, KARAMBAKKAM, CHINNASEKKADU AND MANAPAKKAM IN CHENNAI

8.1 SCOPE OF THE PROJECT

KARAMBAKKAM SCOPE

Providing comprehensive sewage scheme to Manali, Chinnasekkadu, Karambakkam and Manapakkam in Chennai city.						
Location: KARAMBAKKAM						
Major activity	Unit	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
1) Providing Collection system						
Double Wall Corrugated PE/PP pipes	km	6.067	9.701	7.814	4.531	5.149
CI pipes of LA class	km	2.09	2.625	3.2	1.414	2.093
Brick work manhole	nos	152	252	221	146	95
Precast Manhole	nos	64	105	93	41	87
RCC manhole	nos	79	97	122	58	77
PE manhole	nos	3	6	5	3	4
Providing house service connection						
Total No. of manhole	1447					
2) Construction of Pumping station						
Suction well	nos	1	1	1	1	1
Screen well	nos	1	0	1	0	1
Valve chamber, Pipes, specials and allied works						
Pump house	nos	1	1	1	1	1
3) Installation of pumping machineries and allied electrical works						
4) Providing pumping main						

8. SEWAGE SYSTEM TO MANALI, KARAMBAKKAM, CHINNASEKKADU AND MANAPAKKAM IN CHENNAI

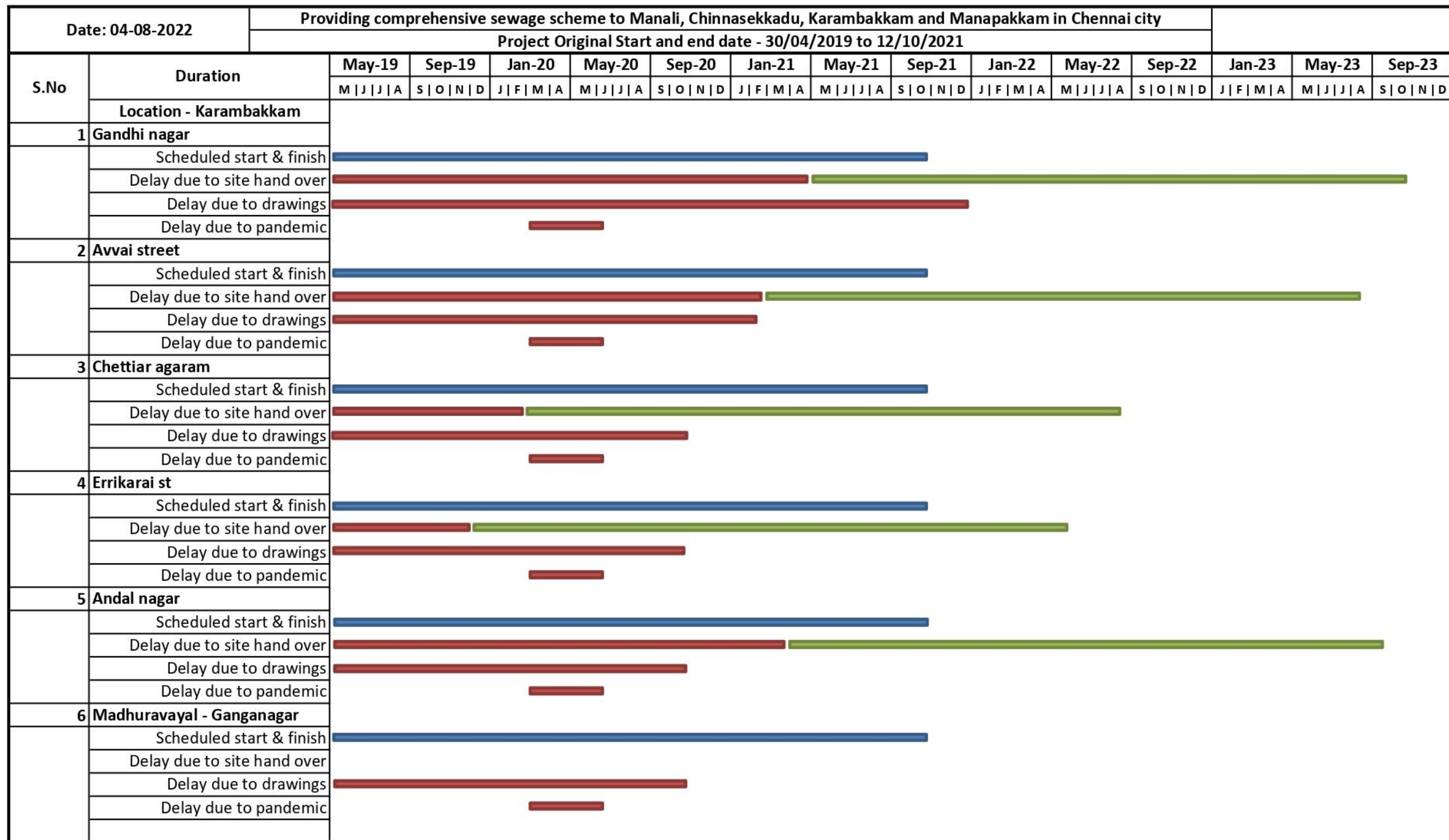
8.2 DELAY REASON AND TIME (KARAMBAKKAM)

02-08-2022	Providing comprehensive sewage scheme to Manali, Chinnasekkadu, Karambakkam and Manapakkam in Chennai city					Delay Analysis
	KARAMBAKKAM					
	LOCATION	ORIGINAL START	ORIGINAL FINISH	PLANNED START	PLANNED FINISH	REASON
	Gandhi nagar -SPS	May-19	Sep-21	Feburary 2022	Oct-22	Delay in site handover, delay in issuing good for construction (GFC) drawing, Delay due to revision, Pandemic, Election, Monsoon
	Avvai st - SPS					
	Chettiar agaram - SPS					
	Errikarai st - LS					
	Andal nagar - SPS					
Madhuravayal - Ganganagar - MPS						
Delay due to Drawing	LOCATION	REASON WITH DATES				TOTAL NO. OF DAYS DELAYED
		Date of handover with hindrance	Date of handover without hindrance	Date of issue and revision of GFC drawing	Remark	
	GANDHI NAGAR					
Issue	Sewer network design and drawing	04-02-2020	08-04-2021 (Remark: land belong to GCC)	18-09-2020	Descoping of Gandhi nagar SPS - accordingly design received	972
	Structural design and drawing			18-09-2020		
Revision	Alignment and pumping main			28-12-2021		
	Pump duty and pump set design					
	AVVAI ST.					
Issue	Sewer network design and drawing	04-07-2019	26-02-2021	18-09-2020	Lifting station (LS) has been changed to SPS(Sewage pumping station)	667
	Structural design and drawing			23-02-2021		
Revision	Alignment and pumping main			21-10-2020		
	Pump duty and pump set design					
	CHETTIYAR AGARAM					
Issue	Sewer network design and drawing	04-07-2019	07-02-2020 (Remark: Public issue, revenue dept clearance)		Alignment of sewage pumping main was reviced due to Avvai St. variation flow	539
	Structural design and drawing			18-09-2020		
Revision	Alignment and pumping main			21-10-2020		
	Pump duty and pump set design					
	ERRIKARAI ST.					
Issue	Sewer network design and drawing	04-07-2019	20-11-2019		Alignment of sewage pumping main was reviced due to Avvai St. variation flow	539
	Structural design and drawing			18-09-2020		
Revision	Alignment and pumping main			21-10-2020		
	Pump duty and pump set design					
	ANDAL NAGAR					
Issue	Sewer network design and drawing	20-11-2019	19-03-2021 (Remark: Public issue, no access for execution)	18-09-2020		688
	Structural design and drawing			18-09-2020		
Revision	Alignment and pumping main			21-10-2020		
	Pump duty and pump set design					
	MADURAVAYAL - GANGANAGAR					
Issue	Sewer network design and drawing	20-11-2019				
	Structural design and drawing			01-09-2020		
Revision	Alignment and pumping main			21-10-2020		
	Pump duty and pump set design					

Location	No. of days delay			Total
	Due to handover	Due to drawings	Due to pandemic	
Gandhi Nagar	708	264	0	972
Avvai St.	667	0	0	667
Chettiyar nagar	282	257	0	539
Errikarai St	203	336	0	539
Andal Nagar	688	0	0	688
Maduravayal- Ganganagar				0
Chinnasekkadu	276	382	0	658

8. SEWAGE SYSTEM TO MANALI, KARAMBAKKAM, CHINNASEKKADU AND MANAPAKKAM IN CHENNAI

8.3 BAR CHART (KARAMBAKKAM)



9. CONCLUSION

9.1 INFERENCE FROM TRAINING

- Learned the basics of Construction Project Management and Lean Management
- Learned about last planner system and fortnight plan (pull approach) and PPC (Planned Percent complete)
- Learned about A3 design thinking and how it can be implemented in a construction project
- Observed how to communicate with vendors and contractors.
- Learned how to cross check RA bills and how to put cumulative bill.
- Learned about Preparation of Tender Documents which includes General Conditions of Contract and Special condition of contract and writing specification for BOQ
- Understood how to schedule for Industrial projects and the hindrance that will happen on site and how that will affect the productivity of the workers.
- Understood the co-ordination between civil and electrical work on site
- Learned the basic of delay analysis and delay mapping