



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 : NIDHI R A

Semester : III

Reg No. : 40840010

Batch : 2020-2022



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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 NIDHI R A (40840010) who had undergone training in SHRI ABHIRAMI CONSTRUCTIONS 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 **NIDHI R A** hereby declare that this Professional Training Report for **33 Days from 10TH Dec 2021 to 13TH Jan 2022** done by me under the guidance of **Ar. UDHAYASHANKAR** is submitted in partial fulfilment of the requirements for the completion of practical training session.

DATE : 31.01.2022

PLACE : CHENNAI

A handwritten signature in blue ink, appearing to read 'R. Anji'.

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

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

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

I take this moment to thank, **MR. ELAYARAJA (Project coordinator)** for all the support since the day I began work. I am profoundly grateful to him for his help, professionalism, his concern, passionate support and encouragement throughout my training.

I would also like to thank my parents for supporting me as always and helping me throughout my training.

JOINING LETTER



SHRI ABHIRAMI CONSTRUCTION

Builders & Engineering Contractors

(Regd. in. PWD, GCC, TANGEDCO, ESIC)

GST No : 33ABIFS0975M1ZQ

LETTER OF APPOINTMENT

To,
Ms. Nidhi R A
Chennai.
Ph no : 9962457539 / 9841981259.

Dear Nidhi,

SUB: LETTER OF APPOINTMENT

Welcome to SHRI ABIRAMI CONSTRUCTIONS

With reference to the above subject, we are pleased to extend you the position of PROJECT MANAGER TRAINEE in our firm. This letter officially confirms your placement with us as a trainee for a period of 30 working days, starting from 10.12.2021.

Designation : Project Manager Internship trainee
Date of joining : 10.12.2021.

On or before the date of joining you are requested to submit the following documents with a set of xerox copies with original for verification without fail.

1. Photos-2 nos.
2. Bonafide from college
3. Address proof/ID proof
4. Letter from college(if any)

Regular performance review will be conducted to assess your performance and suitability.

We believe you have a successful career ahead of you and we are looking forward to you being a part of our family.

Sincerely,

K. N. K.



SHRI ABIRAMI CONSTRUCTIONS
Date: 10.12.2021

Old No. 14/2, New No. 20/1, Parthasarathy Street, Ayanavaram, Chennai - 600 023.
Cell : 95000 99990, Ph. 044 - 28252595
E-mail : abhiramiconstruction@yahoo.com / udhayashankerk@gmail.com

EXPERIENCE CERTIFICATE



SHRI ABHIRAMI CONSTRUCTION

Builders & Engineering Contractors

(Regd. in. PWD, GCC, TANGEDCO, ESIC)

GST No : 33ABIFS0975M1ZQ

EMPLOYEE EXPERIENCE CERTIFICATE

This certificate is presented to **Ms. NIDHI R A (40840010)**, Sathyabama Institute of Science and Technology.

For the experience gained in our organisation. As the Chief Architect, I hereby certify that this employee had undergone Project Manager training in our firm from **10th December 2021 till 13th January 2022** and had gained experience as **Project Manager**.

We found her responsible, enthusiastic and hardworking during her working tenure.

We wish her success in her future endeavours.

Sincerely,

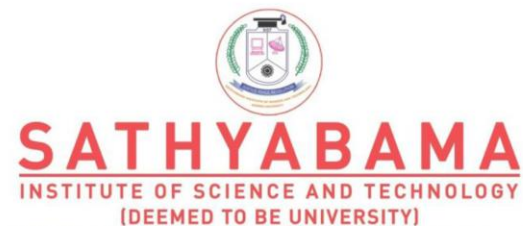
K. N. K.



SHRI ABIRAMI CONSTRUCTIONS
Date: 13.01.2022

Old No. 14/2, New No. 20/1, Parthasarathy Street, Ayanavaram, Chennai - 600 023.
Cell : 95000 99990, Ph. 044 - 28252595
E-mail : abhiramiconstruction@yahoo.com / udhayashankerk@gmail.com

MONTHLY REPORT



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SCHOOL OF BUILDING & ENVIRONMENT, DEPARTMENT OF ARCHITECTURE
M. Arch (Building management) Batch 2020-2022
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)

1. Name of the office / organization	: SHRI ABHIRAMI CONSTRUCTIONS
2. Address & Contact Number	: Old No.14/2, New No. 20/1, Parthasarathy street, Aynavaram, Chennai-600023. Phone number :044-28252595
3. Name of the student	: NIDHI R A
4. Duration	: From 10.12.2021 To 25.12.2021
5. Total No. of days	: 15 Days
6. Evaluation of Performance criteria shall be on	

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month;

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 : NA

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

K4142
Shri Abhirami Construction
Chennai-23



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1. Name of the office / organization	: SHRI ABHIRAMI CONSTRUCTIONS
2. Address & Contact Number	: Old No.14/2, New No. 20/1, Parthasarathy street, Aynavaram, Chennai-600023. Phone number :044-28252595
3. Name of the student	: NIDHI R A
4. Duration	: From 27.12.2021 To 13.01.2022
5. Total No. of days	: 17 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;

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 Improvement

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

K4142
Shri Abhirami Construction
Chennai-23

WORK DIARY

WORK DIARY

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
10.12.2021	YACOOB APARTMENTS	STUDY OF DRAWINGS	25.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-VENDOR COORDINATION
11.12.2021	YACOOB APARTMENTS	ELECTRICAL AND PLUMBING LAYOUT	26.12.2021	HOLIDAY	HOLIDAY
12.12.2021	HOLIDAY	HOLIDAY	27.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT- PROFORMA PREPARATION (DEMURE INTERIOR LAB)
13.12.2021	YACOOB APARTMENTS	ELECTRICAL AND PLUMBING LAYOUT	28.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT- PROFORMA PREPARATION (DEMURE INTERIOR LAB)
14.12.2021	YACOOB APARTMENTS	ELECTRICAL AND PLUMBING LAYOUT- REVISION	29.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT- ESTIMATION AND SPECIFICATION FOR KITCHEN ALONE (HA FELE PRODUCTS)
15.12.2021	YACOOB APARTMENTS	ELECTRICAL AND PLUMBING LAYOUT- FINAL	30.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-ONSITE CHECKLIST
16.12.2021	YACOOB APARTMENTS	ESTIMATION PREPARATION REVISION AND FINALIZING	31.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-DOCUMENT UPDATE
17.12.2021	YACOOB APARTMENTS	MATERIAL SELECTION –SITE VISIT	01.01.2022	LAWRENCE RESIDENCE	INTERIOR FITOUT-DOCUMENT REVISION
18.12.2021	YACOOB APARTMENTS	SCHEDULE PREPARATION	02.01.2022	HOLIDAY	HOLIDAY
19.12.2021	HOLIDAY	HOLIDAY	03.01.2022	LAWRENCE RESIDENCE	INTERIOR FITOUT-DOCUMENT FINALISATION
20.12.2021	YACOOB APARTMENTS	SCHEDULE PREPARATION	04.01.2022	FAIYAZ MOHAMMED RESIDENCE	ESTIMATION AND SPECIFICATION
21.12.2021	GENRAL FORMAT	CREATED CHECKLIST FOR PROJECT TRACKING	05.01.2022	FAIYAZ MOHAMMED RESIDENCE	ESTIMATION AND SPECIFICATION-REVISION
22.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-AREA CALCULATION	10.01.2022	SMPSONS INDUSTRIES	STUDY OF FACTORY LAYOUT
23.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-AREA CALCULATION	11.01.2022	SMPSONS INDUSTRIES	BASIC BOQ PREPARATION
24.12.2021	LAWRENCE RESIDENCE	INTERIOR FITOUT-VENDOR COORDINATION	12.01.2022 & 13.01.2022	SMPSONS INDUSTRIES	BASIC QUANTITY SURVEY(WITH HELP OF QS PERSON)

Chief Architect Signature:

K. V. V.

Office seal:



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ABOUT THE FIRM

1.1 FIRM HISTORY

- Shri Abirami Constructions ISO 9001:2008 certified companies started its "home creation" in a small way in 1992 and since then grew in leaps and bounds fed by unprecedented demand for Abhirami's flats. We are proud to say we have so far completed over 90 Apartment projects all of which are being occupied by extremely satisfied customers.
- Ours is a dedicated team of professionals, most of who are rich in experience and who believe in only one thing called "QUALITY". Nothing satisfies our employees like adherence to strict quality standards.

1.2 FIRM VISION

- Our architecture is unique. All our complexes have unique finish expounding the truth that they are created by Shri Abhirami Constructions. Our speciality is visible from our unique, elegant architecture. The layout of within the apartments and outside is also highly satisfying to most of our valuable customers

1.3 FIRM MISSION

- At Shri Abhirami Constructions we create homes of true artistry and quality. The pleasure of living in our flats is better experienced than explained. Our valuable customers know this very well. We take every care to build your apartment. Our quality perception is above everything. Excellence in every sphere of constructions is our motto. From basement to finishing we adhere to the best standards. Our past achievements speak for our future performance.

1.4 PROJECTS DONE BY FIRM

- Total No.of Projects -27
- Total Number Of Clients Handled -147
- Area Finished - 8 lakhs Sq.ft

1.5 AWARDS

- Construction Industry Award 2014



1.6 REASON FOR CHOOSING THIS FIRM

- To learn more about practical construction procedure.
- Firm had more scope for project management while applying for internship.
- To explore PM softwares and to gain more knowledge and contacts.

PROFESSIONAL TRAINING WORKS
PROJECT NUMBER 01- MR.ARJUN RESIDENCE

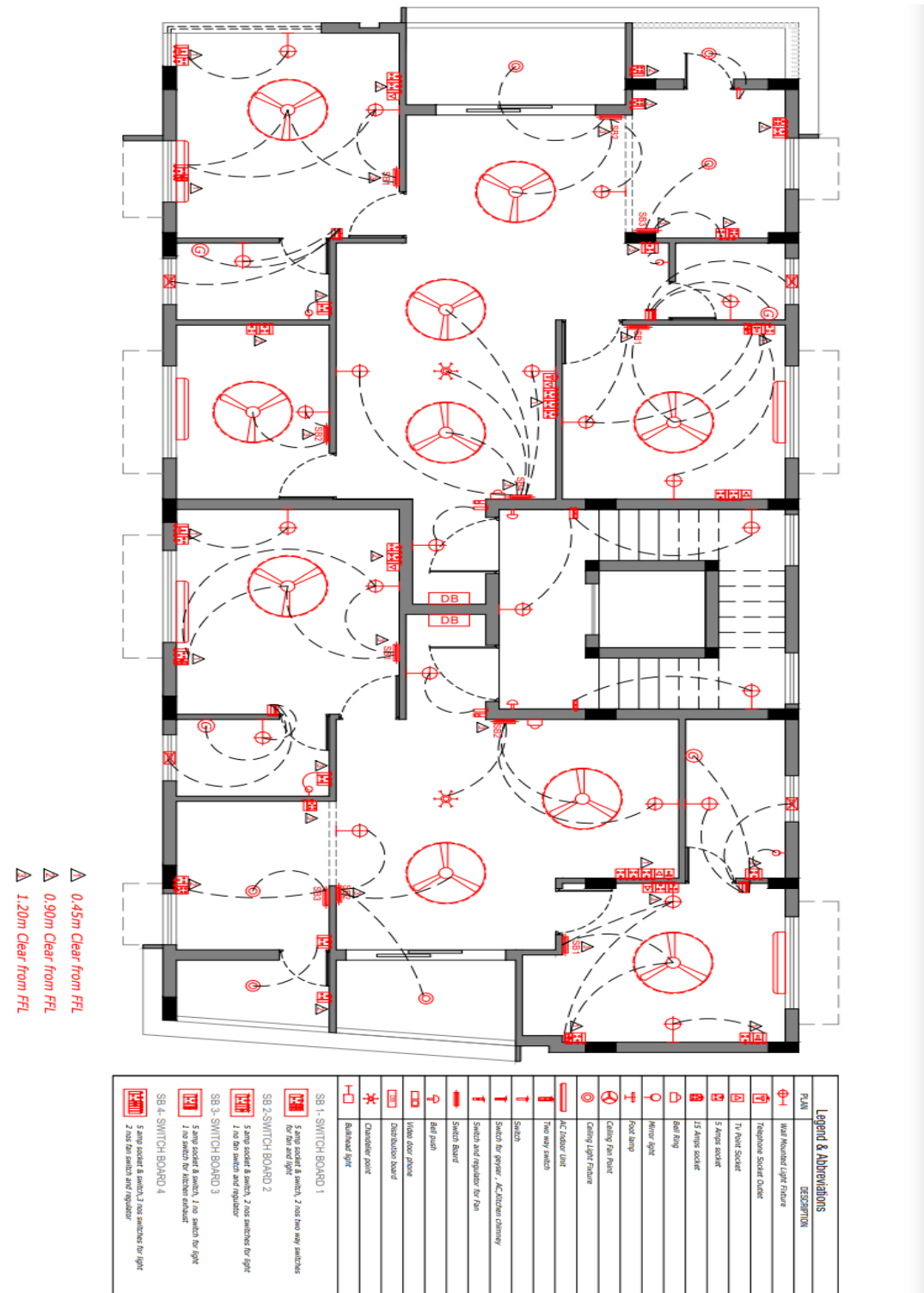
2.1 PROJECT DETAILS

• Client name	:	Mr. Arjun
• Building typology	:	Residence
• Site location	:	Thousand Lights, Chennai
• Project Status	:	Upcoming
• Built up area	:	8165 sq. . . .Ft.
• Scope of work	:	2D - MEP Layout drawing 3D -Building Elevation 4D -Basic Estimation 5D -Project scheduling and tracking Client Coordination Material Selection Site visit

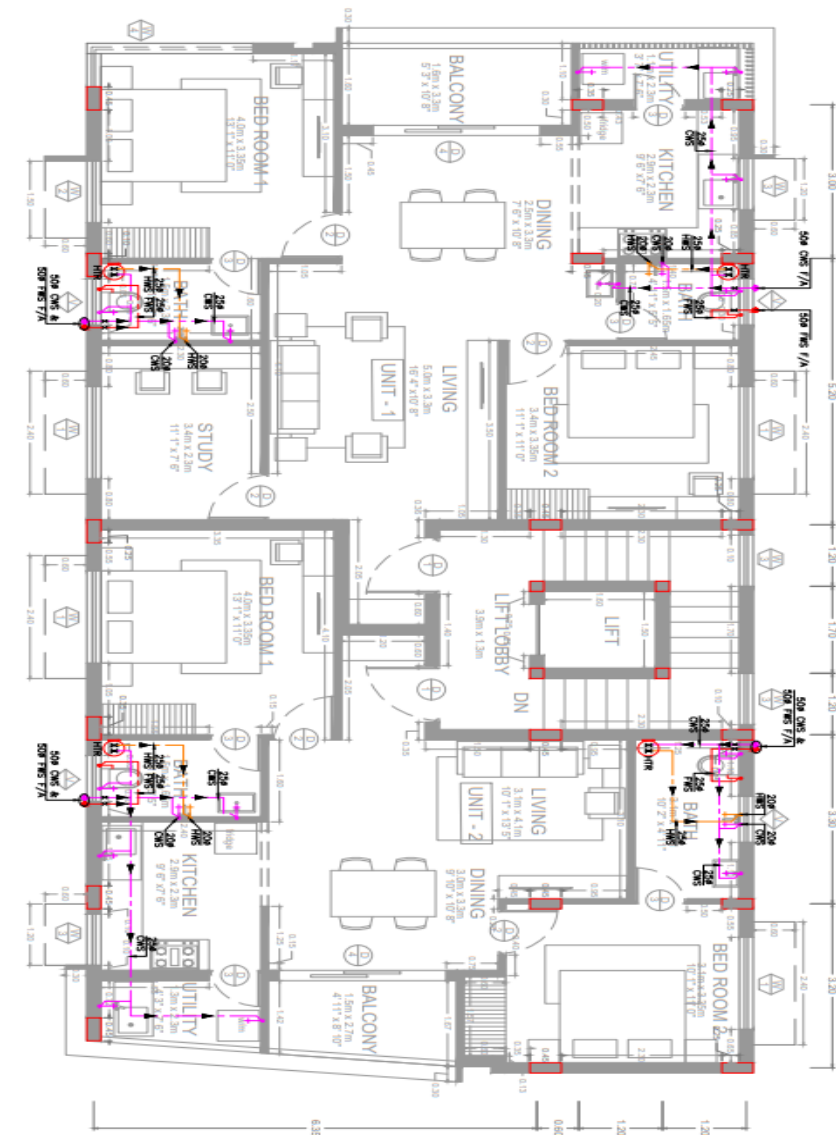
2.2 PROJECT DRAWINGS

2.2.1 2D WORKS

ELECTRICAL WORK LAYOUT



WATER SUPPLY LAYOUT

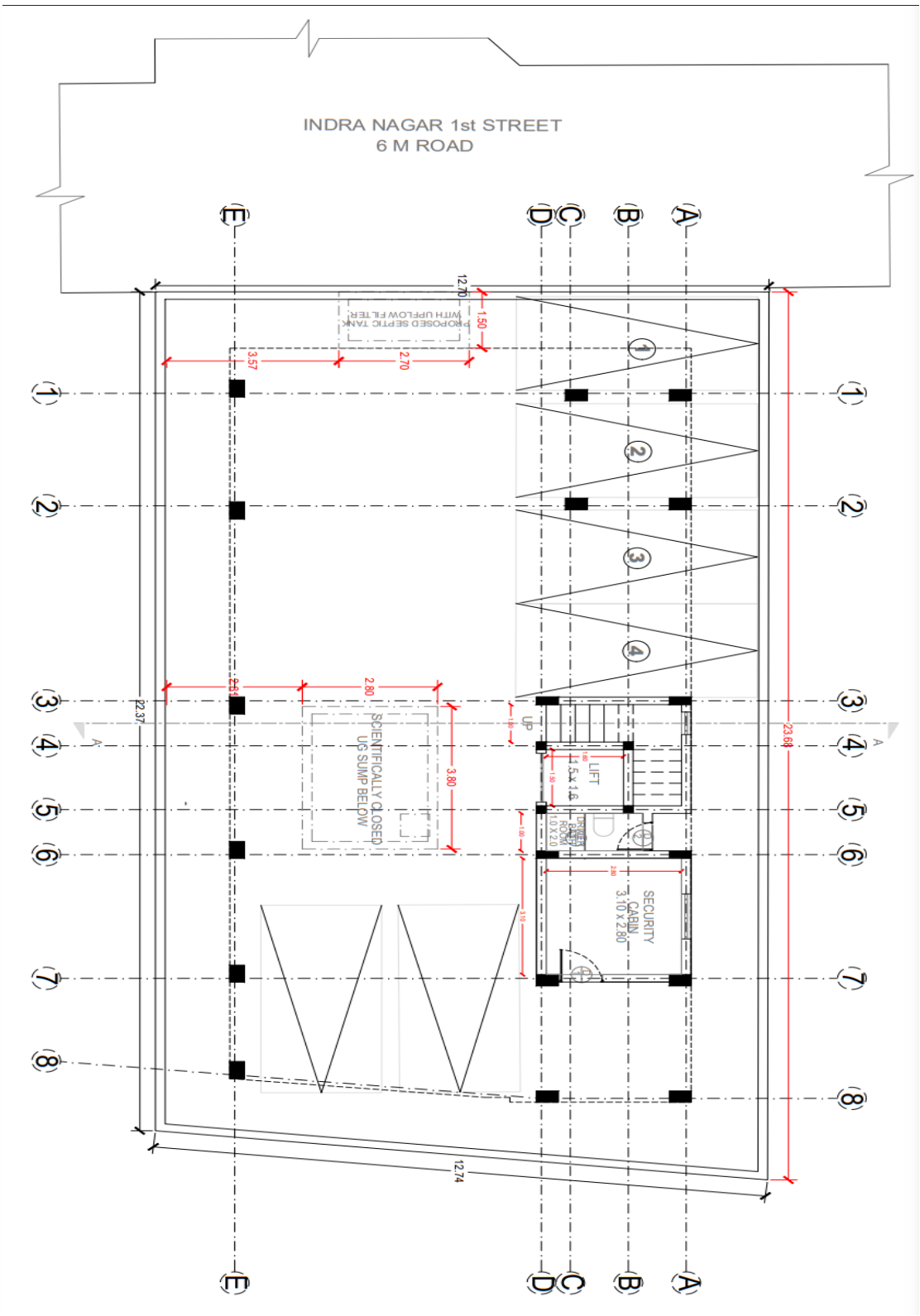


LEGEND	
SYMBOL	DESCRIPTION
	CWS COLD WATER SUPPLY
	HWS HOT WATER SUPPLY
	FWS FLUSH WATER SUPPLY
	HTR HEATER
	ISV ISOLATION VALVE

DRAINAGE LAYOUT



STILT FLOOR LAYOUT



2.2.2 3D WORKS – ELEVATION AND COMPOUND WALL

WEST ELEVATION



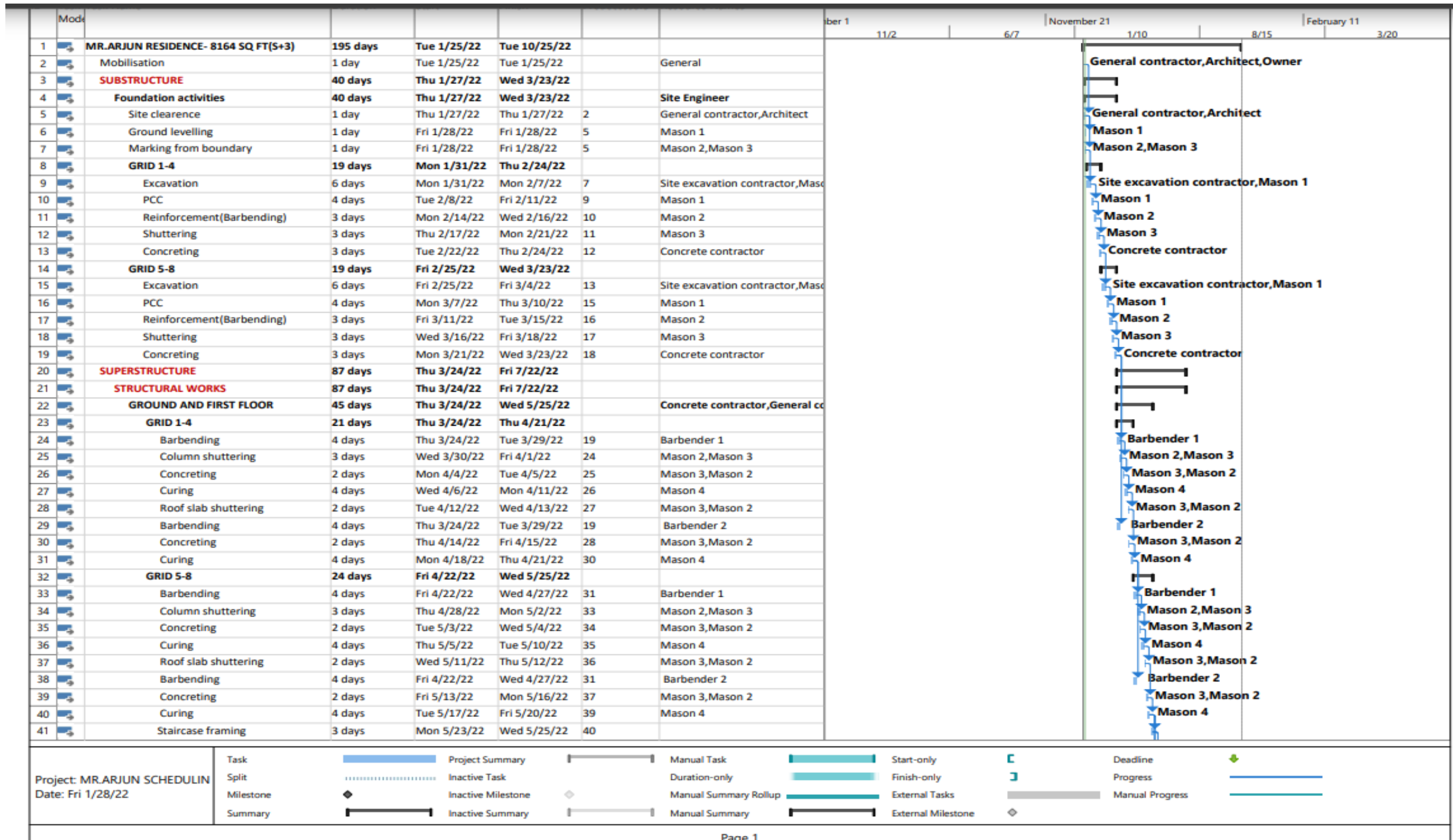


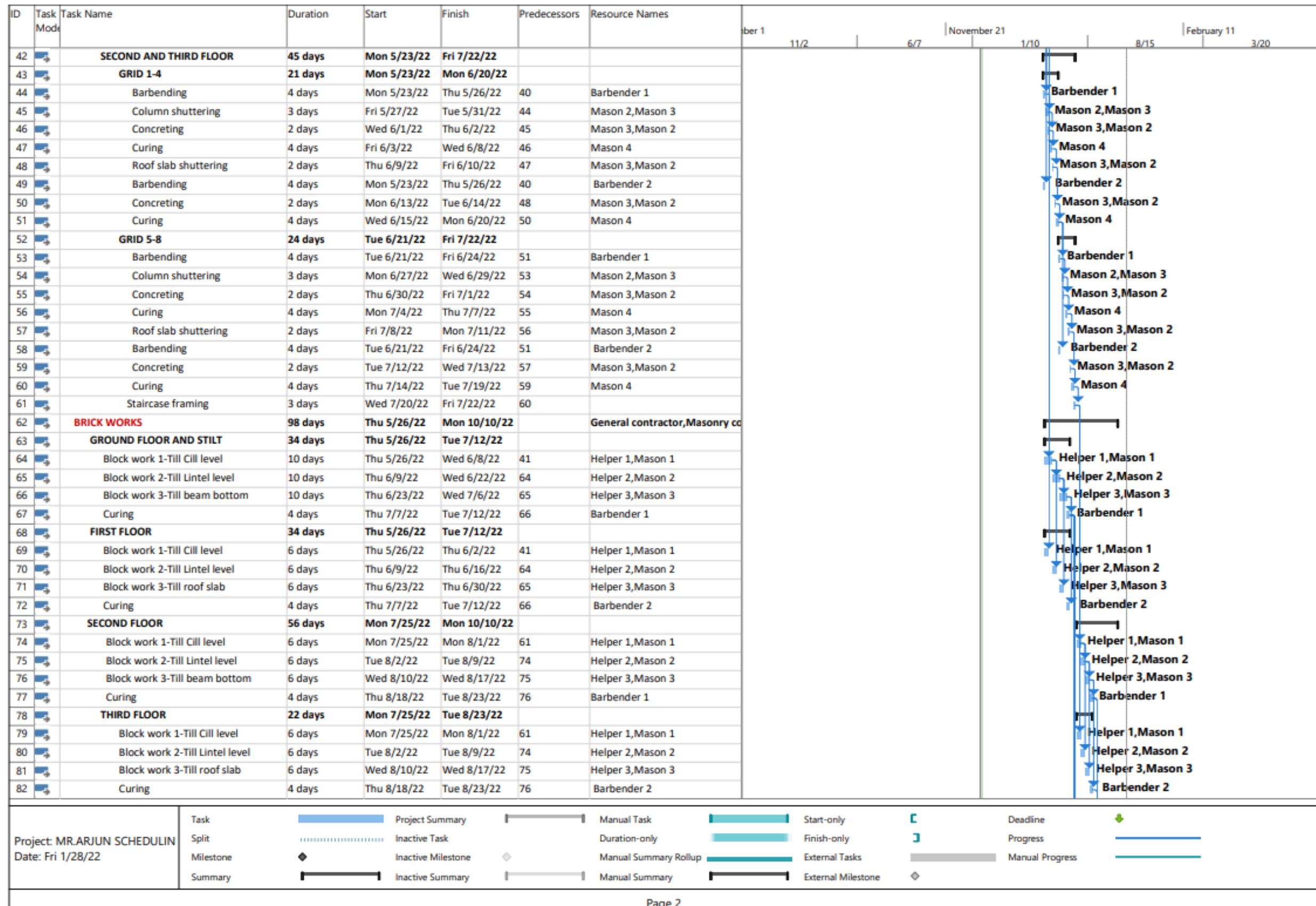
SOUTH ELEVATION

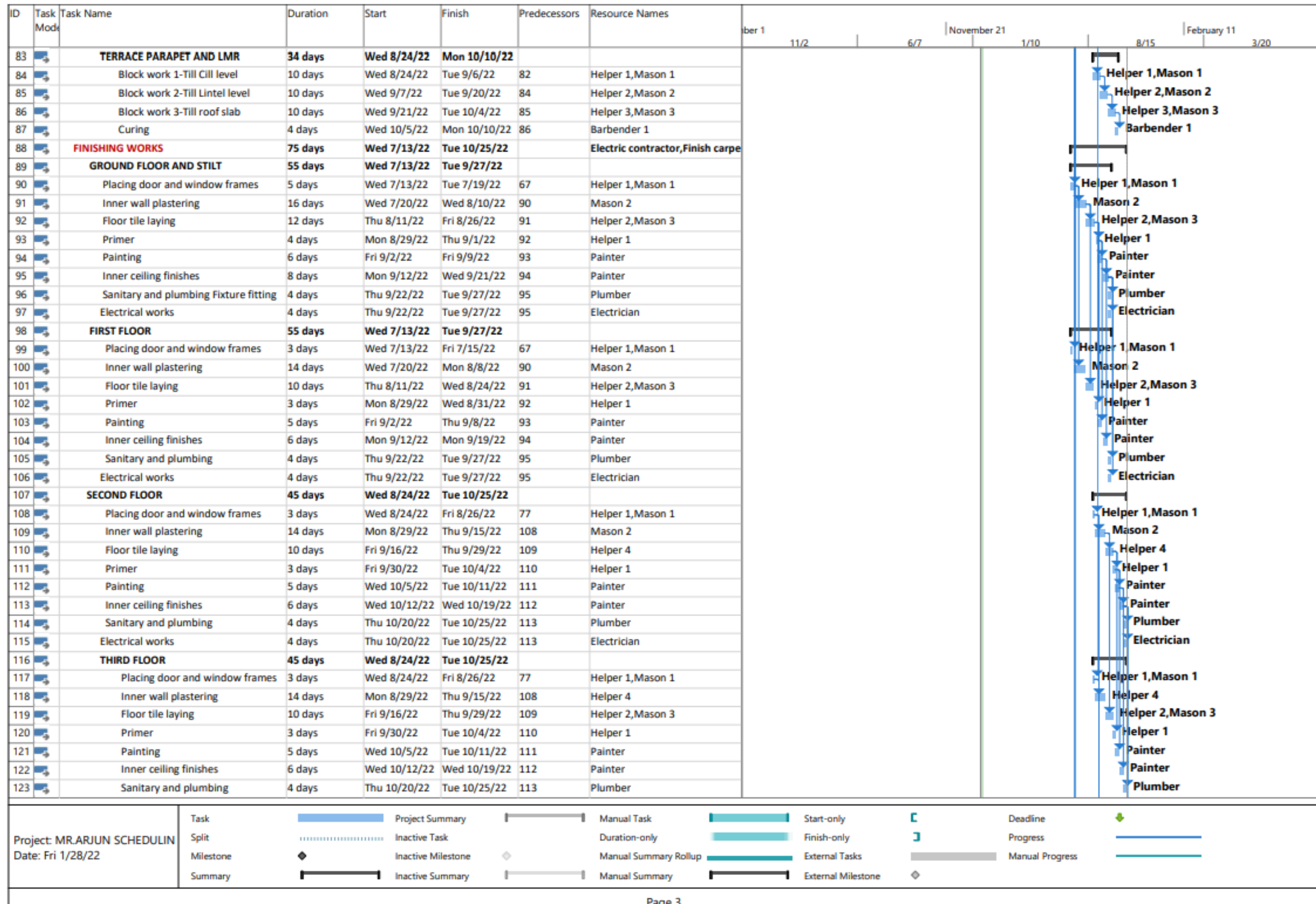


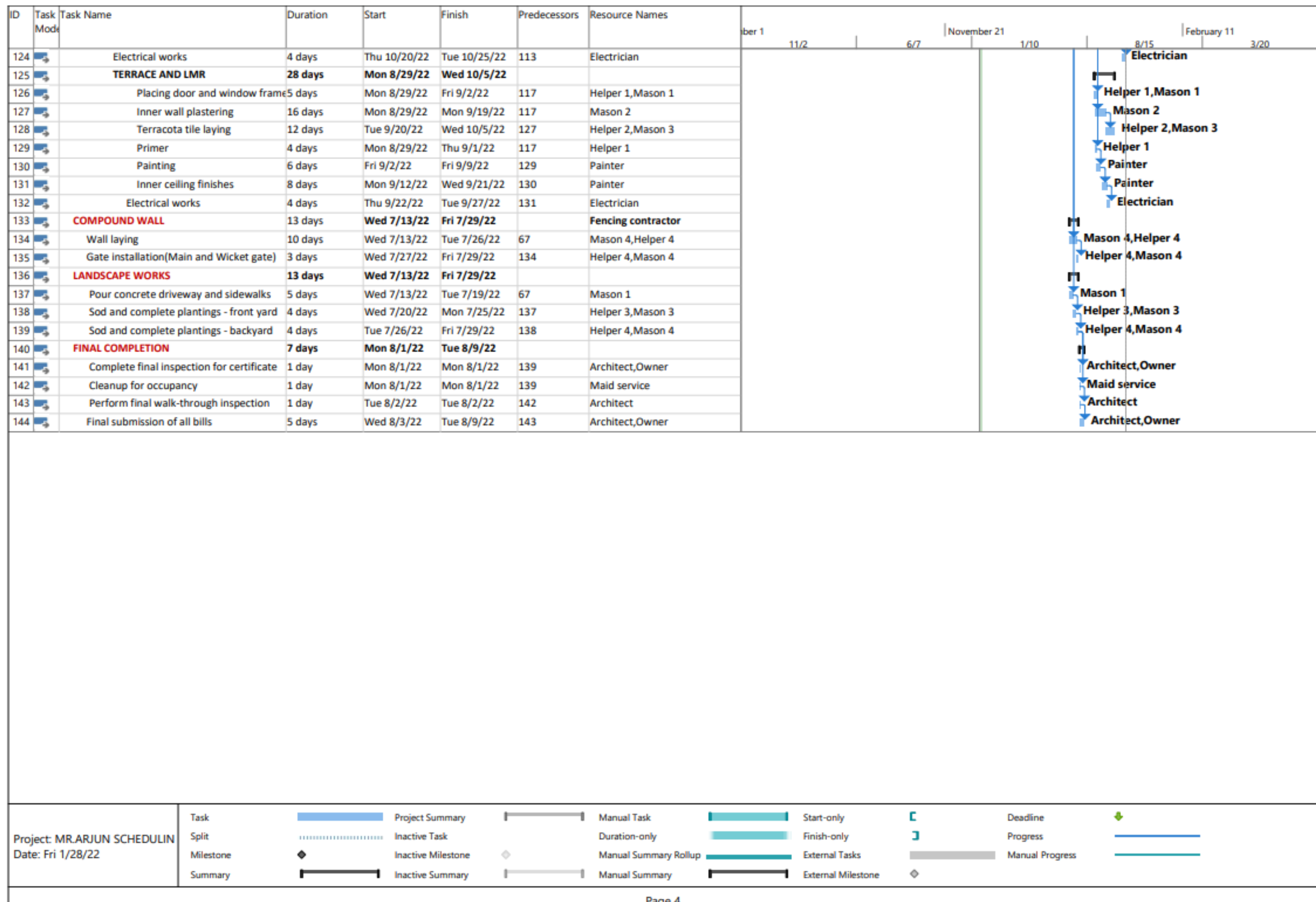
2.2.3 5D WORKS

MS PROJECT SCHEDULING









2.2.4 PROJECT TRACKING CHECKLIST

SHRI ABHIRAMI CONSTRUCTIONS						
WEEKLY PROGRESS CHECKLIST FORMAT				DATE : _____ to _____		
PROJECT NAME :		CLIENT NAME :		LOCATION :		
WEEK NUMBER :		PERCENTAGE COMPLETED :		PERCENTAGE PENDING :		
TASK NO.	DAY	TASK ASSIGNED	INCHARGE PERSON	TIME SLOT	COMPLETION STATUS	SPECIFIC COMMENTS
1						
2						
3						
4						
5						
6						
7						
BUDGET ALLOTTED FOR SPECIFIC WEEK :				NO.OF WORKING DAYS :		
AMOUNT SPENT :				NO.OF NON WORKING DAYS :		
EXCESS AMOUNT SPENT :				EXTRA HOURS WORKED (IF ANY):		
REMAINING AMOUNT OUT OF TOTAL BUDGET:						
REPORT PREPARED BY : _____ REPORT SUBMITTED BY: _____ REPORT RECEIVED BY: _____						
SITE ENGINEER SIGNATURE		PROJECT ENGINEER SIGNATURE		MANAGING DIRECTOR SIGNATURE		
<i>*Budget,Task and Incharge persons will be updated by Project manager and checked by Project Engineer*</i> <i>*Completion status and specific comments will be updated by Site Engineer*</i> <i>*Percentage completed and pending should pertain to last weeks status *</i> <i>*Amount for every week will be allotted for labours and materials along with 10 percentage additional charges for unexpected expenses*</i> <i>*Amount for particular weekly will be allotted roughly based on work allotted by project manager*</i> <i>*Amount spent for particular week should be calculated precisely and every bills should be submitted*</i>						

2.2.5 MATERIAL SELECTION



2.3 CRITICAL OVERVIEW OF THE PROJECT

- Learnt how to work CAD layout pertains to Electrical and Plumbing Layouts.
- MS Project scheduling has been created for live project.
- New format has been created and will be used by firm for its future project tracking for any project.
- Client and Consultant Coordination have been taught.

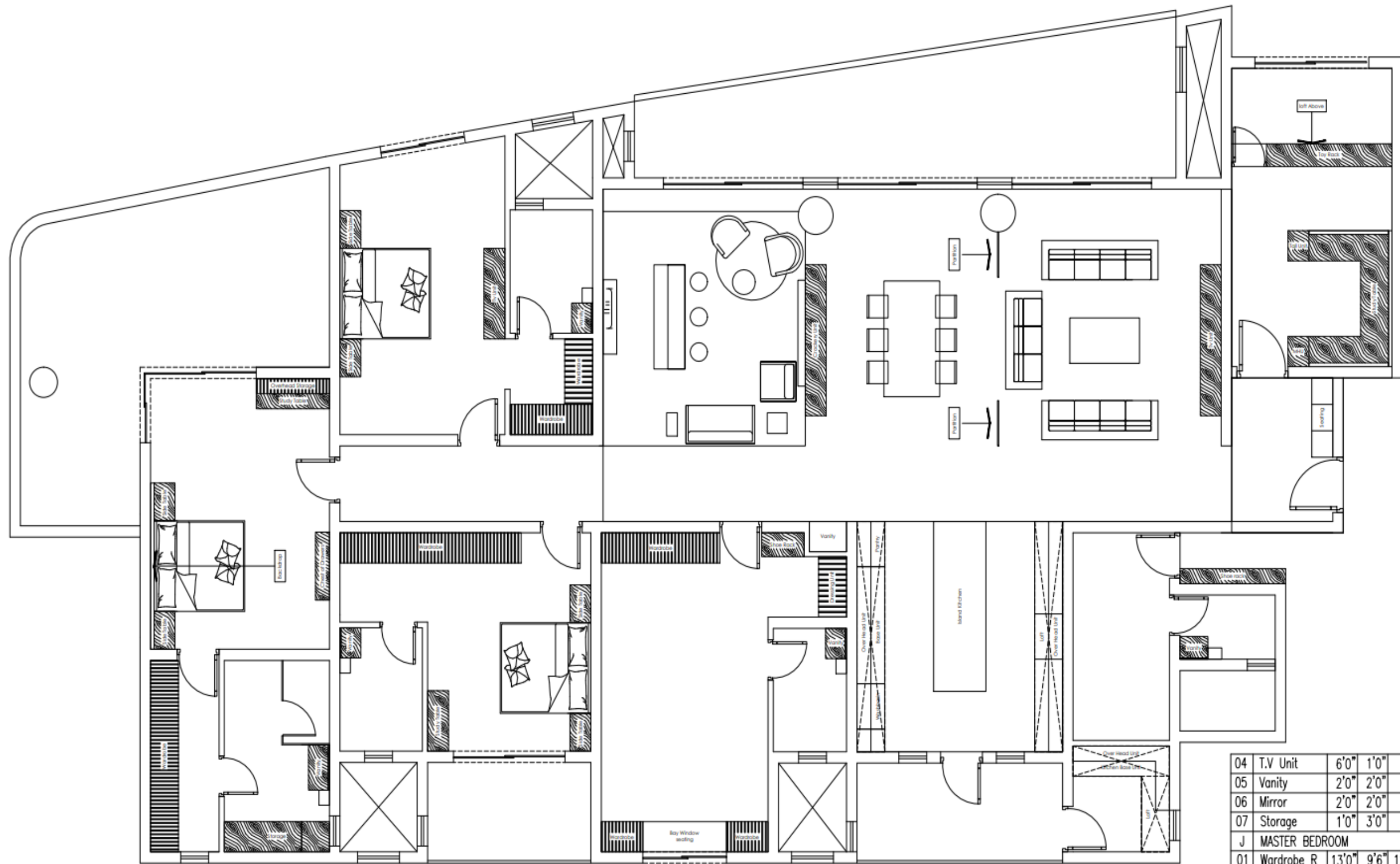
PROJECT NUMBER 02 - MR.LAWRENCE RESIDENCE - INTERIOR FITOUT

3.1 PROJECT DETAILS

• Client name	:	Mr Lawrence
• Building typology	:	Residence-Interior
• Site location	:	ECR 14, Chennai
• Project Status	:	On-going
• Built up area	:	2994 sq. Ft.
• Scope of work	:	Area statement preparation for Interior fit out. Vendor and client Coordination. Proforma Preparation for Client meeting.

3.2 PROJECT DRAWINGS

3.2.1 AREA STATEMENT CHART AND FLOOR PLAN



AREA CHART				
SNO	DESCRIPTION	L	H	Area
A FOYER/SERVICE ENTRY				
01	Seating	5'6"	1'6"	8.50
02	Shoerack	8'0"	8'0"	64.00
03	Louver Door	2'6"	8'0"	20.00
04	Vanity	2'0"	2'0"	4.00
05	Mirror	2'0"	2'0"	4.00
06	Storage	1'0"	3'0"	3.00
B STUDY ROOM				
01	M.H.S	3'0"	5'0"	15.00
02	Study Table	17'0"	2'6"	42.50
03	L-Glass	9'0"	2'6"	22.50
04	Soft Board	6'0"	2'6"	15.00
05	Toy Rack	9'0"	8'0"	72.00
06	Door	2'6"	8'0"	20.00
07	Loft	11'6"	2'6"	29.00
C LIVING				
01	T.V. Unit	10'0"	1'0"	10.00
02	M.S.Partition	6'0"	9'0"	54.00
D DINING				
01	Crockery	10'0"	8'0"	80.00
02	Vanity	3'0"	2'0"	6.00
03	Mirror	3'0"	3'0"	9.00
E KITCHEN				
01	Base Unit	31'0"	2'9"	86.00
02	O.H. Unit	31'0"	2'0"	62.00
03	Island	23'0"	2'9"	64.00
04	Loft	31'0"	2'0"	62.00
F SERVICE KITCHEN				
01	Base Unit	12'0"	2'9"	33.00
02	O.H. Unit	10'6"	2'0"	21.00
03	Loft	12'0"	2'0"	24.00
G DAUGHTER BEDROOM				
01	Wardrobe R	8'6"	9'6"	81.00
02	Wardrobe	6'0"	8'0"	48.00
03	Seating	6'0"	1'6"	9.00
04	Loft	12'0"	2'0"	24.00
05	Side Table	5'0"	1'0"	5.00
06	Shoe Rack	3'0"	8'0"	24.00
04	T.V Unit	6'0"	1'0"	6.00
05	Vanity	2'0"	2'0"	4.00
06	Mirror	2'0"	2'0"	4.00
07	Storage	1'0"	3'0"	3.00
H LEON BEDROOM				
01	Wardrobe	13'0"	8'0"	104.00
02	Loft	13'0"	2'0"	26.00
03	Side Table	5'0"	1'0"	5.00
04	Study Table	8'0"	2'6"	20.00
J MASTER BEDROOM				
01	Wardrobe R	13'0"	9'6"	123.50
02	Storage	7'0"	8'0"	56.00
03	Study Table	5'6"	2'6"	14.00
04	O.H. Unit	5'6"	2'0"	11.00

3.2.2 PROFORMA INVOICE

SNO	PRODUCT	AREA	HSN	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	REMARKS
RESIDENTIAL APARTMENT				OPTIMUM		IDEAL		PREMIUM		LUXURY		
A FOYER / SERVICE ENTRY												
1	Seating	8.50	9403	1350.00	11475.00	1500.00	12750.00	1650.00	14025.00	1800.00	15300.00	
2	Shoerack	64.00	9403	1350.00	86400.00	1500.00	96000.00	1650.00	105600.00	1800.00	115200.00	
3	Louver Door	20.00	9403	950.00	19000.00	950.00	19000.00	950.00	19000.00	950.00	19000.00	
4	Vanity	4.00	9403	1350.00	5400.00	1500.00	6000.00	1650.00	6600.00	1800.00	7200.00	
5	Mirror	4.00	9403	675.00	2700.00	750.00	3000.00	825.00	3300.00	900.00	3600.00	
6	Storage	3.00	9403	1350.00	4050.00	1500.00	4500.00	1650.00	4950.00	1800.00	5400.00	
B STUDY / PRAYER												
1	Medium Height Storage	15.00	9403	1350.00	20250.00	1500.00	22500.00	1650.00	24750.00	1800.00	27000.00	
2	Study Table	42.50	9403	1350.00	57375.00	1500.00	63750.00	1650.00	70125.00	1800.00	76500.00	
3	Lacquered Glass	22.50	9403	1050.00	23625.00	1150.00	25875.00	1200.00	27000.00	1300.00	29250.00	
4	Soft Board	15.00	9403	675.00	10125.00	750.00	11250.00	825.00	12375.00	900.00	13500.00	
5	Toy Rack	72.00	9403	1350.00	97200.00	1500.00	108000.00	1650.00	118800.00	1800.00	129600.00	
6	Door - Prayer Hall	20.00	9403	675.00	13500.00	750.00	15000.00	825.00	16500.00	900.00	18000.00	
7	Loft	29.00	9403	1350.00	39150.00	1500.00	43500.00	1650.00	47850.00	1800.00	52200.00	
C LIVING												
1	T.V. Unit	10.00	9403	1350.00	13500.00	1500.00	15000.00	1650.00	16500.00	1800.00	18000.00	
2	M.S. Partition	54.00	9403	1050.00	56700.00	1050.00	56700.00	1050.00	56700.00	1050.00	56700.00	
D DINING												
1	Crockery	80.00	9403	1350.00	108000.00	1500.00	120000.00	1650.00	132000.00	1800.00	144000.00	
2	Vanity	6.00	9403	1350.00	8100.00	1500.00	9000.00	1650.00	9900.00	1800.00	10800.00	
3	Mirror	9.00	9403	675.00	6075.00	750.00	6750.00	825.00	7425.00	900.00	8100.00	
E KITCHEN												
1	Base Unit	86.00	9403	1350.00	116100.00	1500.00	129000.00	1650.00	141900.00	1800.00	154800.00	
2	Overhead Unit	62.00	9403	1350.00	83700.00	1500.00	93000.00	1650.00	102300.00	1800.00	111600.00	
3	Island Counter	64.00	9403	1350.00	86400.00	1500.00	96000.00	1650.00	105600.00	1800.00	115200.00	
4	Loft	62.00	9403	675.00	41850.00	750.00	46500.00	825.00	51150.00	900.00	55800.00	
F SERVICE KITCHEN												
1	Base Unit	33.00	9403	1350.00	44550.00	1350.00	44550.00	1350.00	44550.00	1350.00	44550.00	
2	Overhead Unit	21.00	9403	1350.00	28350.00	1500.00	31500.00	1650.00	34650.00	1800.00	37800.00	
3	Loft	24.00	9403	675.00	16200.00	750.00	18000.00	825.00	19800.00	900.00	21600.00	
G DAUGHTER BEDROOM												
1	Aristo Wardrobe	81.00	9403	3350.00	271350.00	3500.00	283500.00	3650.00	295650.00	3800.00	307800.00	

2 Wardrobe	48.00	9403	1350.00	64800.00	1500.00	72000.00	1650.00	79200.00	1800.00	86400.00
3 Seating	9.00	9403	1350.00	12150.00	1500.00	13500.00	1650.00	14850.00	1800.00	16200.00
4 Loft	24.00	9403	675.00	16200.00	750.00	18000.00	825.00	19800.00	900.00	21600.00
5 Side Table	5.00	9403	1350.00	6750.00	1500.00	7500.00	1650.00	8250.00	1800.00	9000.00
6 Shoe Rack	24.00	9403	1350.00	32400.00	1500.00	36000.00	1650.00	39600.00	1800.00	43200.00
7 Dressing	32.00	9403	1350.00	43200.00	1500.00	48000.00	1650.00	52800.00	1800.00	57600.00
8 Vanity	4.00	9403	1350.00	5400.00	1500.00	6000.00	1650.00	6600.00	1800.00	7200.00
9 Mirror	4.00	9403	675.00	2700.00	750.00	3000.00	825.00	3300.00	900.00	3600.00
10 Storage	3.00	9403	1350.00	4050.00	1500.00	4500.00	1650.00	4950.00	1800.00	5400.00
H LEON BEDROOM										
1 Wardrobe	104.00	9403	1350.00	140400.00	1500.00	156000.00	1650.00	171600.00	1800.00	187200.00
2 Loft	26.00	9403	675.00	17550.00	750.00	19500.00	825.00	21450.00	900.00	23400.00
3 Side Table	5.00	9403	1350.00	6750.00	1500.00	7500.00	1650.00	8250.00	1800.00	9000.00
4 Study Table	20.00	9403	1350.00	27000.00	1500.00	30000.00	1650.00	33000.00	1800.00	36000.00
5 Vanity	4.00	9403	1350.00	5400.00	1500.00	6000.00	1650.00	6600.00	1800.00	7200.00
6 Mirror	4.00	9403	675.00	2700.00	675.00	2700.00	825.00	3300.00	900.00	3600.00
7 Storage	3.00	9403	1350.00	4050.00	1500.00	4500.00	1650.00	4950.00	1800.00	5400.00
I GUEST BEDROOM										
1 Wardrobe	88.00	9403	1350.00	118800.00	1500.00	132000.00	1650.00	145200.00	1800.00	158400.00
2 Loft	22.00	9403	675.00	14850.00	675.00	14850.00	825.00	18150.00	900.00	19800.00
3 Side Table	5.00	9403	1350.00	6750.00	1500.00	7500.00	1650.00	8250.00	1800.00	9000.00
4 T.V. unit	6.00	9403	1350.00	8100.00	1500.00	9000.00	1650.00	9900.00	1800.00	10800.00
5 Vanity	4.00	9403	1350.00	5400.00	1500.00	6000.00	1650.00	6600.00	1800.00	7200.00
6 Mirror	4.00	9403	675.00	2700.00	750.00	3000.00	825.00	3300.00	900.00	3600.00
7 Storage	3.00	9403	1350.00	4050.00	1500.00	4500.00	1650.00	4950.00	1800.00	5400.00
J MASTER BEDROOM										
1 Aristo Wardrobe	123.50	9403	3350.00	413725.00	3500.00	432250.00	3650.00	450775.00	3800.00	469300.00
2 Storage	56.00	9403	1350.00	75600.00	1500.00	84000.00	1650.00	92400.00	1800.00	100800.00
3 Study Table	14.00	9403	1350.00	18900.00	1500.00	21000.00	1650.00	23100.00	1800.00	25200.00
4 Overhead Unit	11.00	9403	1350.00	14850.00	1500.00	16500.00	1650.00	18150.00	1800.00	19800.00
5 Side Table	5.00	9403	1350.00	6750.00	1500.00	7500.00	1650.00	8250.00	1800.00	9000.00
6 Drawer Chest	11.50	9403	1350.00	15525.00	1500.00	17250.00	1650.00	18975.00	1800.00	20700.00
7 Mirror	25.00	9403	675.00	16875.00	750.00	18750.00	825.00	20625.00	900.00	22500.00
8 Vanity	6.00	9403	1350.00	8100.00	1500.00	9000.00	1650.00	9900.00	1800.00	10800.00
9 Mirror	4.00	9403	675.00	2700.00	750.00	3000.00	825.00	3300.00	900.00	3600.00
10 Storage	3.00	9403	1350.00	4050.00	1500.00	4500.00	1650.00	4950.00	1800.00	5400.00
11 Back Panel	104.50	9403	675.00	70537.50	750.00	78375.00	825.00	86212.50	900.00	94050.00
TOTAL				2470887.50		2684300.00		2900487.50		3115850.00
GST@18%				444759.75		483174.00		522087.75		560853.00
TRANSPORTATION				5000.00		5000.00		5000.00		5000.00
GRAND TOTAL				2920647.25		3172474.00		3427575.25		3681703.00

3.3 CRITICAL OVERVIEW OF THE PROJECT

- Learnt how to work on area statement.
- Client requirement and vendor coordination was learnt.
- Worked with interior dealers in proforma invoice preparation.
- Client requirement and budget was thoroughly understood and suggestions were made to choose products.

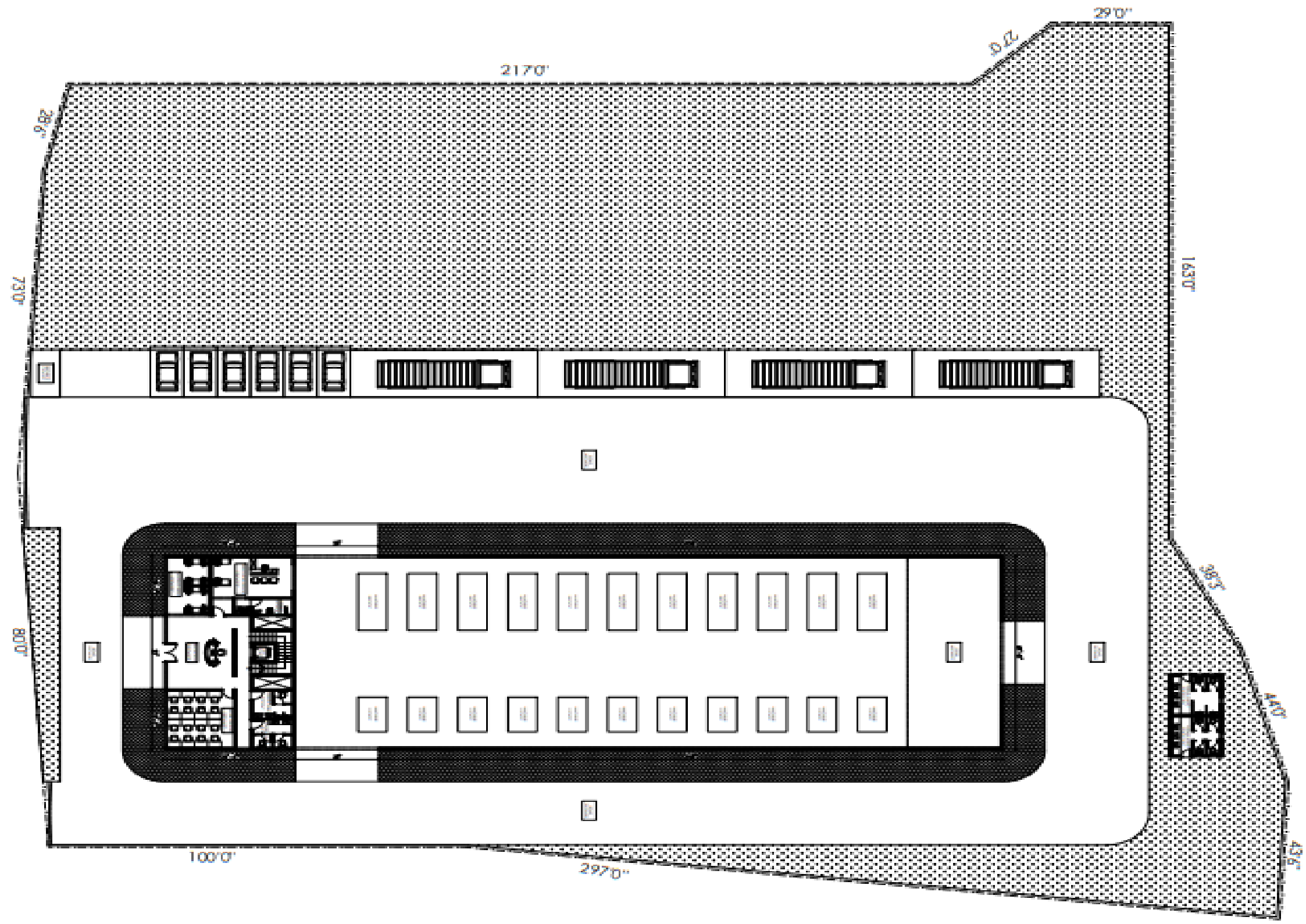
PROJECT NUMBER 03 – SAMPSON S PLASTIC INDUSTRIES

4.1 PROJECT DETAILS

• Client name	:	Mr SAMPSON S Plastic Industries
• Building typology	:	Industry
• Site location	:	Sungavarchathram, Chennai
• Project Status	:	Upcoming
• Built up area	:	12392 sq. Ft.
• Scope of work	:	Detailed Estimate preparation.

4.2 PROJECT DRAWINGS

4.2.1 FLOOR PLAN



4.2.2 DETAILED ESTIMATE

SHRI ABHIRAMI CONSTRUCTIONS					
SMPSON'S PLASTIC INDUSTRIES					
DETAILED BILL OF QUANTITY					
BILL NO: SAC14/002/2020-2021			DATE :15.12.2021		
S.No	Description	Unit	BOQ Rate	BOQ	
				Qty	Amount
1	Earth work in excavation over areas (exceeding 30cm in depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; excavated earth to be levelled and neatly dressed. All Kind of Soil 0.0 M to 1.5 M level	Cum	155	1,620.18	251,127.90
2	Earth work in excavation over areas (exceeding 30cm in depth 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; excavated earth to be levelled and neatly dressed. All Kind of Soil 1.5 M to 3.0 M level	Cum	258	120.24	31,021.92
3	Extra for Inside Factory Work, including manual handling of excavated earth with safety	Cum	245	863.32	211,513.40
4	Filling with selected earth brought from outside the site including transportation for all leads, and upto any height cost of soil, royalty, loading, unloading, carriage to dumping spot and all incidentals complete (Net consolidated area fill volume will be computed from the initial and final levels. Volume in slopes, embankments etc. will be computed applying appropriate formula).	Cum	984	1,206.93	1,187,619.12
5	Supplying and filling in plinth with fine sand as per zone under floors and trenches including, watering, ramming consolidating and dressing complete.	Cum	2,050.00	95.96	196,718.00
6	Supplying & diluting chloropyrophous Emulsifiable concentrate of 20% concentration conforming to IS : 6439 – 1978 to form water emulsion of 0.5% concentration for preconstructional anti-termite treatment by uniformly spraying and injecting the diluted water Emulsion in specified quantities under and around the column pits, water trenches, top surface of plinth filling, junctions of walls and floor, along the external perimeter of the building expansion joints, over the top surface of excavated earth on which Apron is to be laid, surroundings of pipes and conduits etc. to create a continuous chemicals barrier complete as per standard specifications. The plinth area of the Building shall be measured for payment. The work must be executed by approved specialised agency who is a member of IPCA and shall give a 10 (ten) years guarantee.	Sqm	117	556.71	65,135.07
TOTAL SUBHEAD					1,943,135.41

7	Providing and laying Design Mix cement M-10 grade concrete conforming to IS:456 & IS 10262-2009 at any level ,shape, position or thickness etc including materials ,equipment batching, mixing, placing, vibrating with mechanised equipment like batching plant, transit mixer, concrete pump and all labour, excluding centering, shuttering and reinforcement etc. use of plasticizer/ superplasticizer/accelerator/ retarder conforming to IS:9103 (latest) to achieve required strength and slump all complete as per drawing, specifications , direction of engineer in charge (with 130Kg Cement & 130kg flyash in a cum):RMC Supplied By SCL free of Cost.	Cum	1,050.00	223.18	234,339.00
8	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).Cement Supplied By SCL free of Cost.	Sqm	375	32.53	12,198.75
9	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	663	32.53	21,567.39
TOTAL SUBHEAD					268,105.14
10	Providing and laying Design Mix cement M-25 grade concrete conforming to IS:456 & IS 10262-2009 at any level ,shape, position or thickness etc including materials ,equipment batching, mixing, placing, vibrating with mechanised equipment like batching plant, transit mixer, concrete pump and all labour, excluding centering, shuttering and reinforcement etc. use of plasticizer/ superplasticizer/accelerator/ retarder conforming to IS:9103 (latest) to achieve required strength and slump all complete as per drawing, specifications , direction of engineer in charge (with 280Kg cement & 80kg flyash): BELOW PLINTH LEVEL. RMC Supplied By SCL free of Cost.	Cum	1,100.00	298.95	328,845.00
11	Providing and laying Design Mix cement M-25 grade concrete conforming to IS:456 & IS 10262-2009 at any level ,shape, position or thickness etc including materials ,equipment batching, mixing, placing, vibrating with mechanised equipment like batching plant, transit mixer, concrete pump and all labour, excluding centering, shuttering and reinforcement etc. use of plasticizer/ superplasticizer/accelerator/ retarder conforming to IS:9103 (latest) to achieve required strength and slump all complete as per drawing, specifications , direction of engineer in charge (with a minimum cement content of 350Kg per cum without flyash):ABOVE PLINTH LEVEL.RMC Supplied By SCL free of Cost.	Cum	1,100.00	58.48	64,328.00
12	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level: Thermo-Mechanically Treated bars. Note: Steel Supplied by Client	Kgs	14	60,755.00	850,570.00

13	Fixing of anchor bolts with template in line and level as per drawing for PEB column erection. Zero tolerance in line and level	Nos	289	152	43,928.00
14	Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, Footings, Base of columns etc. for mass concrete.	Sqm	550	165.71	91,140.50
15	Centering and shuttering including strutting, propping etc. and removal of form for : Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	600	464.85	278,910.00
16	Centering and shuttering including strutting, propping etc. and removal of form for :Suspended floors, roofs, landings, balconies and access platform.	Sqm	600	861.18	516,708.00
TOTAL SUBHEAD					2,174,429.50
17	Providing & Fixing solid Block masonry with 100 mm thick Solid block in superstructure above plinth level in cement mortar 1:5 i/c providing and placing in position 2 no 6 mm dia MS bars at every third corse of masonry work.Cement Supplied By SCL free of Cost.	Sqm	850	113.56	96,526.00
18	Extra for placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick/block masonry .	Sqm	14	113.56	1,589.84
19	Providing & Fixing solid Block masonry with 200X200X400 mm Solid block in substructure below plinth level in cement mortar 1:5. Cement mortar 1:5 (1 cement : 5 coarse sand). Cement Supplied By SCL free of Cost.	cum	6,100.00	30.23	184,403.00
20	Providing & Fixing solid Block masonry with 200X200X400 mm Solid block in superstructure above plinth level in cement mortar 1:5. Cement mortar 1:5 (1 cement : 5 coarse sand)Cement Supplied By SCL free of Cost.	Cum	6,200.00	118.17	732,654.00
TOTAL SUBHEAD					1,015,172.84

21	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for , vanity counters, window sills , facias and similar locations of required size of approved shade CREMA MARFIL/ Australian White , colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, etc. complete at all levels. Marble Basic cost of stone Rs 400/- per Sqft.Cement Supplied By SCL free of Cost.	Sqm	8,000.00	102.25	818,000.00
22	Providing and Fixing 18mm thick marble stone counters, Vanities door sil, window sil, staircase stepetc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Cement Supplied By SCL free of Cost.	Sqm	1,850.00	26.32	48,692.00
23	Providing edge moulding to 18mm thick marble Stone Counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	Rmt	260	110	28,600.00
24	Cutting of groove at rough surface of stone	Rmt	155	82.5	12,787.50
25	Providing and fixing 20-25 mm thick kota stone cladding on front side compound with under base cement mortar 1:4 and av. Thickness 25-30 mm including jointing with green pigment and polishing upto mirror finish. Kota stone base rate Rs. 35/ Sqft	Sqm	1,400.00	20.29	28,406.00
26	Providing and fixing 1st quality vitrified floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Size of Tile is 600 x 600 mm), with tile protection. basic rate --RS. 90/SQ.FT as per approved make i.e. Kajaria/ Somany/ HR Johnson/ Nitco.Cement Supplied By SCL free of Cost.	Sqm	1,900.00	511.32	971,508.00
27	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Size of Tile is 300 x 600 mm), with tile protction. basic rate --RS 100 SQ.FT as per approved make i.e. Kajaria/ Somany/ HR Johnson/ Nitco	Sqm	1,970.00	172.12	339,076.40
TOTAL SUBHEAD					2,247,069.90
28	Providing and fixing metal flush doors (external doors of building) including door frame, Handle, View panel, Hinges Lock etc.	Sqm	11,000.00	10.31	113,410.00

	TOTAL SUBHEAD				113,410
29	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing & staircase railing including applying a priming coat of approved steel primer. M.S.tube/ Pipe railing and grills	kgs	47	18,631.78	875,693.66
30	Supply and Fixing of single skin Roof sheeting - 0.47 mm TCT Baregalvalume material (Tatablue scope/JSW)	Sqm	950	510	484,500.00
31	Supply and Fixing of Ridge flashing - 0.47 mmTCT Baregalvalume material (Tatablue scope/JSW)	RMT	950	35	33,250.00
32	Supply and Fixing of Eaves Curve - 0.5 mm TCT Color Coated galvalume sheet	RMT	950	10	9,500.00
33	Supply and Fixing of Valley Gutter - 0.5 mm TCT Color coated galvalume sheet	RMT	950	70	66,500.00
34	Supply and Fixing of Cladding sheeting - 0.5 mm TCT Color coated galvalume outer sheet	Sqm	950	110	104,500.00
35	Supply and Fixing of Trims & flashing - 0.5 mmTCT Color coated galvalume sheet	RMT	520	140	72,800.00
36	Supply and fixing of 50 mm. thick aluminium laminated Rock wool of density @48 kg/cum. With GI supporting Weld Mesh at bottom @ 50x50x1.6mm	Sqm	870	620	539,400.00
37	Supply and Transportation of Downtake Pipes. Galvalume downtake pipes .All Down take pipes of Galvalume sheet to be designed for complete drainage of roof. Pipes to be provided with bends at end with 1.20m horizontal length and top of pipe to terminate in manholes 600mm below existing GL. Calculations for gutter and down take pipe size and numbers to be provided.	Rmt	950	75	71,250.00
	TOTAL SUBHEAD				2,257,393.66
38	Reinforced cement concrete work in floors (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement : RMC M25 grade reinforced cement concrete without flyash by using 350 kg. of cement per cum of concrete. Note: RMC supplied by client	Cum	1,100.00	86.77	95,447.00
39	Extra for "Tremix" vacuum dewatering system for flooring to be used (instead of conventional system) with steel trowel finish, Only labour and equipment hire charges to be paid under this item -	Sqm	88	540.87	47,596.56
40	Providing and laying/sprinkling non metallic heavy duty floor hardener over the wet concrete @ 3.5 kg/sqmtr. In two passes, including finishing the same as per the direction of the manufacturers specifications. Contractor has to submit the material for approval before each panel pour as per the prescribed consumption factor. Approved Make ; Silka, STP, Fosroc	kg	37	1,893.06	70,043.22

41	Providing and laying under concrete floor Supreme make Dura Vapour Barrier Min. Thickness 1400 Microns (1.4mm). (Formerly SIL Vapour Barrier) which is composed of tiny air cells trapped in foam and reinforced with high performance polymeric inlay which helps reduce the overall permeance. Minimum over lap of vapour barrier 100 mm , each overlap shall be jointed with packing 50 mm wide adhesive tape .	Sqm	95.97	822.58	78,943.00
	TOTAL SUBHEAD				292,029.78
42	Mineral Fiber false ceiling : Providing and Fixing Grid False Ceiling of 15 mm thick Mineral fiber acoustical tiles of armstrong make with model Dune Supreme RH99/ approved tiles with Micro shield and Ceiling size of 600x600 having to be laid on the supporting system of armstrong make comprising of 24mm G.I. exposed "T" grid system and main runners spaced 1200mm centers securely fixed to the structure soffit by approved hangers at 1200 maximum centers. Flush fitting 1200mm cross tees to be interlocked between main runners at 600mm centers to form 1200 x 600 modules.600 x 600 modules to be formed by fitting 600mm long cross tees centrally between 1200mm cross tee. Wall angle supporting the ceiling to be fixed to the wall with screws spaced at 450mm c/c sft, as per the drawings and manufacturer specifications which shall conforming relevant IS codes.	Sqm	1,866.88	415.01	774,773.87
	TOTAL SUBHEAD				774,773.87
43	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)Cement Supplied By SCL free of Cost.	Sqm	325	587.41	190,908.25
44	18 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand) Plaster to be done in 2 layers (12 inner +6mm outer layer with water proofing compound : make Silka, Dr. Fixit) Cement Supplied By SCL free of Cost.	Sqm	400	295.19	118,076.00
45	12 mm Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. Cement Supplied By SCL free of Cost.	Sqm	325	78	25,350.00
46	Providing and fixing 24 SWG G.I. Chicken wire mesh of size 12mm fixed with nails/neat cement plaster etc. as directed at the junction of brick and RCC works. Cement Supplied By SCL free of Cost.	Sqm	130	200	26,000.00
47	Providing and Applying Making a based on Birla Putty 2 mm thick pasted on wall	Sqm	90	514.91	46,341.90
48	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work including base preparation.Same as above without base preparation.	sqm	170	444.76	75,609.20
49	Finishing exterior wall with paint of "APEX", weather coat or equivalent of approved brand and manufacture (Two or more coats) and of required shade on new work over and including priming coat as per manufacturer instructions to give an even shade.	sqm	190	295.19	56,086.10
50	Extra for high performance adhesive promoter PAREX-LANKO 753 @ 1kg/ 50 kg bag of Cement, for plaster .	Sqm	295.19	330	97,412.70
	TOTAL SUBHEAD				635,784.15
51	Extra for Providing and fixing of tile Glue	Sqm	314	376.85	118,330.90

52	Providing and laying water proofing treatment in Sunken portions of Toilets slabs. Mixing of RMC with water proofing compound/admixtures (Option 1: STP No 1 ; Option 2: Dr. Fixit PidiProof LW; Option 3: CICO no.1) conforming to IS. 2645 and approved by Engineer-in-charge before casting the Sunken/Toilet floor slab. Cleaning, washing and saturation of surface with water. Providing and laying of Gola at the junction with PMC Mortar. Shalcrete-R:cement:sand mortar in the ratio 1:2:5 admixed with STP No.1 @ 200ml/50kg bag of Cement. Applying the mortar around the pipes followed by rapping two layers of fiberglass cloth (100mm width) around pipe joint followed by two coats of shalcrete R. Providing & Applying three coats of ShaliCrete R (admixed with cement in 1:2 ratio) on the clean and saturated surface in 3 coats. Place fiberglass cloth after first coat and sprinkle sand over the top coat when still tacky. Applying protective screed in the ratio 1:4 (cement: sand) admixed with STP No.1 @200ml/m²:1@200ml/50kg bag of cement in slope 1:100 for down spout pipe dia 75 mm as per vastu.	Sqm	1,100.00	376.85	414,535.00
53	Providing and applying structural waterproofing treatment to the wall with fibre mesh and two coat water proofing compound coating (work to be carried out by authorised Waterproofing applicator):	Sqm	633	177.66	112,458.78
TOTAL SUBHEAD					645,324.68
54	Construction of Granular subbase by providing coarse graded material as per grading 1 (MoRT&H - TABLE 400 - 2) for 150mm consolidated thickness with OMC and compacting with Vibratory Roller to achieve 98% of Proctor Density including cost and conveyance of all materials and labour (2 layers= 250mm thick)	cum	1,810.00	142.19	257,363.90
55	Extra for Inside Factory Work, including manual handling of Granular Sub base with safety conveyance of all materials and labour (2 layers= 200mm thick)Vasthu wall Inside Factory - Manual laying inside the plant	cum	190	35.1	6,669.00
56	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	Sqm	59	142.19	8,389.21
57	Providing and fixing of 10mm thick Armour Board for joint Make- Supreme	Sqm	498.86	136.84	68,264.00
58	Providing and fixing of 40mm thick Armour Board for joint Make- Supreme	Sqm	1,081.00	120	129,720.00
TOTAL SUBHEAD					470,406.11

59	PROVIDING AND FIXING 4mm THK ACP CLADDING in spandral area with approved make & shade of aluminium composite panels consisting of a core of polyethylene sandwiched between two aluminium skins of 0.5mm thickness with a mild edges with surface finish of fluorocarbon protective colour coating as approved including cost of stainless steel screws, bolts and aluminium framework behind, M.S. Galvanized brackets including making necessary framework for installation complete as per design, elevation and drawings enclosed. The periphery and the ACP panels joints vertical / horizontal shall be sealed with silicone weather sealant of approved make & shade to make the ACP cladding watertight / airtight. The rates shall include sealing of ACP panels to the structure as detailed in drawings enclosed. The Contractor may offer his any existing cladding design as per the prevalent site conditions and building elevations . No extra claims shall be entertained at any stage for any variation in aluminium panel size / dimension, availability of material, scaffoldings etc. The Contractor must quote the rates accordingly. The anchoring / bracing of the cladding to the RCC slab / beams / columns shall be done with pop-	Sqm	4,564.80	210	958,608.00
TOTAL SUBHEAD					958,608.00
60	Providing and fixing 6mm thick beveled edge mirror of superior glass (of approved quality) complete to be fixed BWP play with wooden cleats with C.P. brass screws and washers complete.	Sqm	3,100.00	3.5	10,850.00
61	Providing and fixing screwed down type stainless steel floor cleanout with opening arrangements for soil / waste pipe and other necessary fittings including jointing, all complete as per standard detail. 110mmx50mm	Nos	1,200.00	5	6,000.00
62	Providing and fixing of 110mm dia PVC- P Trap	Nos	1,385.00	25	34,625.00
63	Providing and fixing of Bib Cock Fusion Make CAT NO: AQT-3107 BIB TAP LONG BODY WITH WALL FLANGE	Nos	1,678.00	15	25,170.00
64	Providing & Fixing Of Floor Trap For Wc	Nos	3,130.00	5	15,650.00
65	FLOOR DRAIN FOR WASH BASIN/URINAL	Rmt	20,000.00	10.87	217,400.00
TOTAL SUBHEAD					309,695.00

66	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab in 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) complete as per standard design. Inside size 90cm x 80cm and 80cm deep including SFRC cover with frame (Heavy Duty) 600x600 mm internal dimensions with test load 10MT as per IS 12592 Part-I & II. total weight of cover and frame to be not less than 38 kg. (wt. of cover 23 kg. and wt. of frame 15 kg.) With F.P.S. bricks with class designation 7.5	Nos	16,000.00	5	80,000.00
67	Constructing of brick masonry road Gully Chamber 45x 45x 77.5 cm with Bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast RCC vertical grating complete as per standard design: with common burnt clay F.P.S (non modular) bricks of class designation	No	8,000.00	5	40,000.00
TOTAL SUBHEAD					120,000.00
68	Supplying and laying of 50mm dia PVC 10kg pipe	Rmt	188	26.25	4,935.00
69	Supplying and laying of 40mm dia PVC 10kg pipe	Rmt	240	10.5	2,520.00
TOTAL SUBHEAD					7,455.00
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. : Concealed work, including cutting chases and making good the walls etc.				
70	a)CPVC 15mm Dia Pipe	Rmt	200	50	10,000.00
71	b)CPVC 20mm Dia Pipe	Rmt	280	50	14,000.00
72	c)CPVC 25mm Dia Pipe	Rmt	400	50	20,000.00
73	d)CPVC 32mm Dia Pipe	Rmt	600	50	30,000.00
	Providing & fixing rain water pipes on wall face unplasticised pvc (minimum working pressure 4kg per sq.cm) conforming to IS: 4985 including jointing with seal ring and adhesive on firming to IS: 5382 leaving 10 mm gap for thermal expansion, (single socketed pipes) including all fittings , accessories Etc..., complete :				
74	a) 110 mm Dia PVC pipe	Rmt	750	69.3	51,975.00
TOTAL SUBHEAD					125,975.00

75	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : Inside dimensions 600x610 mm and 60 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	No	9,900.00	14	138,600.00
76	Constructing brick masonry Rain Water Collection Chamber 60x60x60 cm with 7.5 class designation F.P.S. brick work in cement mortar 1:5 (1 cement : 5 coarse sand) including 500x450 mm S.F.R.C. (Steel Fibre Reinforced Concrete) horizontal grating with frame complete as per standard design/ drawing.	No	10,000.00	14	140,000.00
TOTAL SUBHEAD					278,600.00
77	Providing and fixing anodised aluminum for door window rough ground	Kg	460	350	161,000.00
78	Providing and fixing double action hydraulic floor spring of minimum 1.25mm thickness approved brand and manufacture IS: 6315 marked, Hardwyn make (model 3000) or equivalent for doors including cost of cutting floors as required embedding in floors and core plates with brass pivot and single piece MS sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge With stainless steel cover plate Make - Doorking /Everite /Hardwyn /Dorma /Dorset /Godrej/ Dyna/Haffie/Garnish	Each	5,060.00	4	20,240.00
79	Providing and fixing powder coated aluminum louvers fixed to vertical aluminum sections with necessary arrangements to rotate 180 degrees of 1 mm thick including all necessary fittings complete as per the architectural drawing and detail	Kgs	525	250	131,250.00

80	Providing and fixing power coating aluminium doors (single or double shutter) conforming to IS:1948, IS:1949 fabricated from extruded sections of HINDALCO/JINDAL or equivalent make having minimum 3mm wall thickness as per IS:1285, IS:733 and anodized and electro color coating of required shade as per IS 1868 (minimum anodized coating of grade AC15). fixed with rawl plugs, expansion fasteners,SS screws / fixing clips necessary filling of gaps at junctions, at top, bottom & sides with required PVC / neoprene felt for bi-metallic protection etc. Glazing shall be clear float glass of 6mm thickness including snap fit type beading, concealed screws, fixtures, Godrej or equivalent make Mortice lock with handle on both sides, etc all complete. Aluminium section shall be smooth, free of stains, straight, mitred & jointed mechanically wherever required. (Glazing shall be paid separately)	Sqm	6,172.00	3.17	19,565.24
81	Providing, fixing and fitting of first grade class in steel /aluminium /wooden frames, where ever required, cleaning after fixing including hardware, gaskets, clips, beadings etc. all complete. (Glazing shall be clear float glass of 6mm thickness)	Sqm	833	20.3	16,909.90
TOTAL SUBHEAD					348,965.14
82	Providing and laying cinder filling in the toilets/sunken slab complete as directed by engineer in charge.	Cum	3,546.00	60	212,760.00
83	Additional for Inside Factory Work, including manual handling of Shuttering Material with safety	Sqm	200	685.18	137,036.00
84	Grouting/ Backfilling below base plate with non-shrink grout of approved make (FOSROC - Conbextra GP2) or equivalent) as per the specification of the manufacture using suitable grout pump at all heights. and all complete as per the direction of Project In Charge	cum	52,000.00	0.64	33,280.00
85	SUPPLYING AND FIXING OF GYPSUM FALSE CEILING WITH 12.5MM THICK GYPSUM BOARDS ON EITHER SIDE WITH G I FRAMES WITH SUITABLE SCREWS SPACED @ 600MM C/C AND INCLUDING JOINT PUTTY AND FINISHING BUT WITHOUT PAINTING THE EXPOSED SURFACE AS PER DIRECTION BY ENGINEER INCHARGE	Sqm	2,749.79	149.09	409,966.19
86	Charges for hanging Toilet and Canteen waste line including Clamps,screws,fasteners and self threaded hanging rods etc to complete., including material and manpower as per Engineers in charge.	Rmt	160	50	8,000.00
87	Providing and fixing pre moulded compressible joint filler Non bitumen Dura board including cutting, fixing, placing and jointing etc to complete including material and manpower.	Rmt	146	10	1,460.00
88	Dewatering of seepage water by Pump	hours	460	100	46,000.00
89	Disposal of earth and malba, within 2Km radiUs	Cum	86	1,761.75	151,510.50
90	Providing and Installation of Curtain wall glazing using Extruded Aluminium Sections Powder Coated (RAL 9010) Including 11.52 mm thk Green Tinted Laminated Glass fixed using extruded aluminium pressure plate and cover cap.The rate also includes the cost for MS Insert provided inside the Mullion for Structural Strictness fixed using HDG galvanized brackets, SS Anchor fasteners and connecting bolts and all essential accessories including.	Sqm	11,000.00	115.91	1,275,010.00

91	Existing RCC Floor 350mm Depth groove Cutting at control joints (10mm x 350mm) (3 Layers of cutting 100mm, 200mm and 350mm)	Rmt	1,500.00	1,769.28	2,653,920.00
92	Removing of RCC Panels size of 600mmx500mmx350mm Depth using Machineries	Nos	600	1,373.00	823,800.00
93	Disposal of RCC Panels Outside the premises	Nos	400	1,373.00	549,200.00
94	Disposal of Surpuls Direct excavated materials within a lead 10KM,including Spreading / Levelling of Disposal Materials etc all complete.	Cum	280	884.64	247,699.20
95	Barrication Work - Fixing and removing of Green cloth/Tarpaulin	Rmt	250	120	30,000.00
96	Providing and fixing 10mm dia Rebar Fixing in old RCC Floor .Vasthu wall Inside Factory.	Nos	147.45	1,200.00	176,940.00
97	Dismantling of existing press Pit including PCC/RCC /Brick work/Block work manually and removing the debris from site.	Cum	10,000.00	21.33	213,300.00
98	Dismantling of Existing Structural Steel Platform work manually, and staking.	Mt	20,000.00	10	200,000.00
99	Temporary Barrication Work - Scaffolding with GI Sheet laying work (old GI Sheet should be Provide by M&GI at free of cost)	Sqm	700	100	70,000.00
100	Press pit tank inside Existing oil cleaning work	LS	130,000.00	1	130,000.00
101	Providing and Fixing of 300mm Raised Data center Floor	Sqm	5,000.00	15.2	76,000.00
102	Providing and Fixing of 100 mm thick Gypsum board partition with aluminium section	Sqm	4,700.00	12.54	58,938.00
103	Providing and Fixing of 75 mm thick Gypsum board partition with aluminium section	Sqm	3,750.00	31.79	119,212.50
104	Providing and fixing one coat wall primer,one coat emulsion, One Coat Over Water Base PU wall finish up to 3.0Mtr Height for Internal Surface.	Sqm	674.9	77.17	52,082.03
105	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing,Edge angle nosing ,balcony railing & staircase railing including applying a priming coat of approved steel primer.	kg	115	500.08	57,509.20
106	Providing and fixing MS Expanded Metal Mesh over steel structure support with necessary fixing hardware and 10 gauge wire support at overlapping, top, bottom etc.. Complete . The supporting structural arrangement will be paid under structural steel work , (weight not less than 4.41 kg/sqm)	Sqm	842	15.57	13,109.94
107	Providing and Fixing of Water Proofing Brick Coba	sqm	1,287.00	198.48	255,443.76
108	Providing and fixing of 75mm dia PVC- Pipe	Rmt	450	25	11,250.00
TOTAL SUBHEAD					8,013,427.32
Total					22,999,760.51

4.3 CRITICAL OVERVIEW OF THE PROJECT

- Learnt to prepare detailed estimate.
- Quantity Survey for PEB building was learnt.

PROJECT NUMBER 04 – MR.FAIYAZ MOHAMMED RESIDENCE

5.1 PROJECT DETAILS

• Client name	:	Mr Faiyaz Mohammed
• Building typology	:	Residential
• Site location	:	Vadapalani, Chennai
• Project Status	:	On-going
• Built up area	:	1875 sq. Ft.
• Scope of work	:	Detailed Estimate preparation.

5.2 PROJECT DRAWINGS

5.2.1 ESTIMATION AND BOQ

Sl. No	Description of work	Unit	Qty	Rate	Amount
	Second Floor:-				
1	Providing and laying in position cement concrete M25 in Column using 20mm and down graded size hard broken blue granite stone aggregate with minimum cement content of 360 kg/cum and including cost of centering, shuttering but excluding cost of reinforcement.	Cft	206.00	265.00	54590.00
2	Providing 9"thk Brick wall with CM 1:5 with locally available first quality stock bricks of designation 75 in First floor.	Cft	964.00	175.00	168700.00
3	Providing and constructing 4½" thick brick walls or 11.5 cm wide partition walls in C.M. 1:4 using first class stock bricks of designation 75, reinforced with 2 Nos of 6mm dia M.S.rods embedded in 3" thick M15 concrete at every seventh course the rods continued in the adjoining wall to a length of 30 cm or full thickness of wall.	Sqft	2091.00	125.00	261375.00
4	Providing and laying in position cement concrete M20 in Roof Beam using 20mm and down graded size hard broken blue granite stone aggregate with minimum cement content of 360 kg/cum and including cost of centering, shuttering but excluding cost of reinforcement.	Cft	634.00	265.00	168010.00
5	Providing and laying in position cement concrete M20 in Roof slab using 20mm and down graded size hard broken blue granite stone aggregate with minimum cement content of 360 kg/cum and including cost of centering, shuttering but excluding cost of reinforcement.	Cft	1496.00	265.00	396440.00
6	Providing and laying in position cement concrete M20 in Staircase flight using 20mm and down graded size hard broken blue granite stone aggregate with minimum cement content of 360 kg/cum and including cost of centering, shuttering but excluding cost of reinforcement.	Cft	154.00	265.00	40810.00
7	Providing and laying in position cement concrete M20 in Continuous Lintel using 20mm and down graded size hard broken blue granite stone aggregate with minimum cement content of 360 kg/cum and including cost of centering, shuttering but excluding cost of reinforcement.	Cft	182.00	265.00	48230.00

8	Steel work				
	Supply, straighten, handle, cut, bend, crank and fix and tie in position in all R.C.C. items of work including cost of G.I. binding wire 18 G complete. The weight will be calculated on actual length of measurements of fabricated steel work including authorized lappages only at theoretical weights for different sections.	Kg	8970.00	69.00	618930.00
9	Providing 9"thk Brick wall in staircase steps with CM 1:5 with locally available first quality stock bricks of designation 75 in First floor.	Cft	126.00	175.00	22050.00
10	Joineries:-				
a	Inside Room Door of size 3'0" x 7'0" lind quality teak wood of frame size 2"x5" after planing and panelled door as per Architect design with lock, Anodised Brass hinges, Brass tower bolts and door stopper etc complete.	Sqft	221.00	775.00	171275.00
b	Toilet door of size 2'6"x7'0" of PVC DOOR	Sqft	70.00	175.00	12250.00
c.	Supply and providing first quality teak wood windows as per Architect design with lock, Anodised Brass hinges, Brass tower bolts and door stopper etc complete.	Sqft	212.00	675.00	143100.00
d	ventilator of size 2'0" x 2'0" lind quality teak wood of frame size 2"x5" after planing and panelled door as per Architect design with lock, Anodised Brass hinges, Brass tower bolts and door stopper etc complete.	Sqft	16.00	675.00	10800.00
11	Plastering works:-				
a.	Providing and preparing surface and Ceiling plastering with C.M.1:3, 12mm thick to R.C.C surface plastering of slabs, sides and soffits of beams and columns.	Sqft	4445.00	43.00	191135.00
b.	Providing and preparing surface and plastering with C.M.1:5, 20mm thick to inner wall sides with soffits of door and window.	Sqft	4721.00	43.00	203003.00
c.	Providing and preparing surface and plastering with C.M.1:5, 20mm thick to outer wall sides with soffits of door and Window.	Sqft	4905.00	43.00	210915.00
12	Flooring works:-				
a	Preparing surface and provide Flooring 20mm thk Vitrified tile in every room using design and pattern as Approved by Architects including of C.M.1:5, 20mm thk and cement slurry at the rate of 4.4 kg of cement per every square meter of finished surface, joints pointed with Bal Endura or Laticrete cement grout to match tile colour	Sqft	2830.00	135.00	382050.00

b	Preparing surface and provide 4" Skirting 20mmthk Vitrified tile in every room using design and pattern as Approved by Architects including of C.M.1:5, 20mm thk and cement slurry at the rate of 4.4 kg of cement per every square meter of finished surface, joints pointed with Bal Endura or Laticrete cement grout to match marble and including machine cutting.	Rft	970.00	95.00	92150.00
c.	Supplying and Laying of orient bell tile (or) Equivalent brand tile Flooring @ each and every floor with 7mm thk Antiskid tiles with design, pattern as approved by Architects including of C.M.1:5, 20cm thick and cement slurry at the rate of 4.4 kg of cement per every square meter of finished surface, joints pointed with Bal Endura or Laticrete cement grout to match the tiles.	Sqft	185.00	100.00	18500.00
d	Supplying and Laying of wall dado tiles of orient bell at toilet wall Dado's upto 7"6" ht design and pattern as approved by Architects including pointing with Bal Endura or Laticrete cement grout to match the tiles and cleaning complete. (Basic cost of tiles Rs. 70 /Sqft to be assumed) Please Quote for laying and finishing complete.	Sqft	772.50	100.00	77250.00
e	Supplying and Laying of Staircase Steps flooring using granite , 12mm thk, with design, pattern as approved by Architects with C.M.1:6, 20mm thick and cement slurry at the rate of 4.4 kg of cement per every sqm of finished surface, with Laying, cutting, polishing and uniform surface including matching with colored cement etc complete.	Sqft	540.00	225.00	121500.00
f.	Supplying and Laying of Staircase Steps 4"thk Skirting using granite, 12mm thk , with design, pattern as approved by Architects with C.M.1:6, 20mm thick and cement slurry at the rate of 4.4 kg of cement per every sqm of finished surface, with Laying, cutting, polishing and uniform surface including matching with colored cement etc complete.	Rft	162.00	140.00	22680.00
13	Painting work				
a.	Supplying and painting of internal ceiling with Asian / Birla patti with one coat primer and two coat of Asian Emulsion paint, including necessary scaffolding etc complete.	Sqft	4445.00	24.00	106680.00
b.	Supplying and Painting of Inner faces of walls with Asian / Birla Putty paint as per approved colour by the Architect with plastic emulsion of three coat over a coat of primer including putty and necessary scaffolding etc complete.	Sqft	4721.00	24.00	113304.00

c.	Supplying and painting of External wall with Apex Asian wall paint with Asian paint approved colour by the Architect, four coats including of one coat white cement paint and one coat of primer and two coat of color paint including necessary scaffolding etc complete.	Sqft	4905.00	26.00	127530.00
d	Supplying and Enamel painting for window and Ventilator frames with putty enamel using one coat of primer and two coats of Enamel paint as per approved colour by the Architect.	Sqft	1890.00	21.00	39690.00
e	Supplying and fixing of window and ventilator grill with MSSteel work as per Architectural design and pattern of Steel weight not exceeding 2kg/Sqft.	Kg	2160.00	125.00	270000.00
f.	Supplying and fixing of Staircase handrail using stainless steel handrail with patch fitting etc as per Architectural design and pattern.	RFT	48.00	1050.00	50400.00
14	Sanitary fitting works				
	Total Amount				4143347.00
15	Plumbing and sanitary works for 4 bath rooms with jaquar fittings as specified by client	nos	4	110750.00	443000.00
16	Add 12% for Electrical works as required by client				497201.00
	Total Amount				5083548.00

CONCLUSION

6.1 INFERENCE FROM PROFESSIONAL TRAINING

I have learnt and gained knowledge as Project manager as follows:

- To Implement PM tools for construction projects.
- Client coordination and Vendor Coordination.
- Understood Project Manager serves as a bridge between Chief Architect and Client.
- Allocating Labours and Framing Budget Practically.
- Also personally learnt importance of time management during this professional training period.