



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 : DEENADHAYALAN D

Semester : III

Reg No. : 41840002

Batch : 2021-2023



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

M. Arch (Building management)

VIVA-VOCE EXAMINATION

This is to certify that the Professional Training Report (S84APT) is the work of **DEENADHAYALAN D (41840002)** who had undergone training in **INFRABEES PROJECT MANAGEMENT CONSULTANT** 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 20-12-2022

Internal Examiner

External Examiner



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DECLARATION

I **DEENADHAYALAN D** hereby declare that this Professional Training Report **40 Days from 11th July 2022 to 31th August 2022** done by me under the guidance of **Ar. KOSALRAMAN CJ** 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.

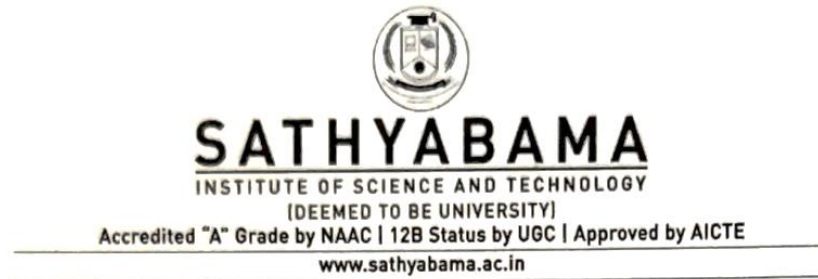
I would like to express my sincere and deep sense of gratitude to **Ar. KOSALRAMAN CJ** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Training.

I would also like to express my sincere thanks to **Ar. Surya (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 would also like to express my gratitude towards my parents and family for supporting me as always throughout my training.

BONOFIDE CERTIFICATE



Date: 11.05.2022

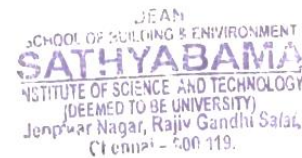
TO WHOMSOEVER IT MAY CONCERN

DEENADHAYALAN D (Reg No- 41840002) 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



JOINING LETTER



Infrabees Project Management Consultants Pvt Ltd
No.779, 1st Floor, D Sector 9th Street,
Anna Nagar West Extension,
Chennai - 600101
Ph: 044-43060708
Mobile +91-9840594170

To,
The Head of the Department,
Department of Architecture, School of Building & Environment, Sathyabama Institute of Science and Technology (Deemed to be University), Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai-600 119, Tamil Nadu

Sub: Confirmation letter for pursuing Practical Training for a period of two months at our office for Mr. Deenadhayalan D Reg No 41840002

Respected Sir / Madam,

With respect to the above subject, we would like to induct Mr. Deenadhayalan D (Reg No 41840002) M. Arch in Building Management, (Sathyabama Institute of Science and Technology) as a Project Management Trainee for a period of two months from July 11, 2022 to August 31, 2022

Thanking You

For Infrabees project management consultant Pvt Ltd

CJ Kosalraman B.Arch. [NITT], M.Arch.[USA], AIA, USGBC LEED AP, AIIA, LLB

Principal Architect & Managing Director

C.J. KOSALRAMAN
ARCHITECT
Regn. No. CA/97/21275



Infrabees project management consultant Pvt Ltd

COMPLETION CERTIFICATE



Infrabees Project Management Consultants Pvt Ltd
No.779, 1st Floor, D Sector 9th Street,
Anna Nagar West Extension,
Chennai – 600101
Ph: 044-43060708
Mobile +91-9840594170

To,
The Head of the Department,
Department of Architecture, School of Building & Environment,
Sathyabama Institute of Science and Technology (Deemed to be University),
Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai-600 119, Tamil Nadu

Sub: Completion letter for professional training reg.

Respected Sir / Madam.

This is to certify that **Deenadhayalan D** (41840002), student of 3rd Semester Master in Architecture in Building Management at Sathyabama University, has successfully completed his internship **(From 11 July, 2022 to 31 August, 2022)** at our company. During the period of training, he was found punctual, hardworking, responsible and inquisitive.

Thanking You

For Infrabees project management consultant Pvt Ltd

CJ Kosalraman B.Arch. [NITT], M.Arch.[USA], AIA, USGBC LEED AP, AIIA, LLB

Principal Architect & Managing Director

C.J. KOSALRAMAN
ARCHITECT
Regn. No. CA/97/21275



MONTHLY REPORT



SATHYABAMA
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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 :	Infrabees Project Management Consultant
2. Address & Contact Number :	Annamalai West Ext.
3. Name of the student :	DEENADHAYALAN D
4. Duration :	From 11-07-2022 To 31-07-2022
5. Total No. of 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			✓		

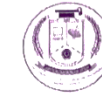
Overall Grading*	B-7.0
------------------	-------

(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)

C.J. K
C.J. KOSALRAMAN
ARCHITECT
Regn. No. CA/97/21275



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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 :	Infrabees Project Management Consultant
2. Address & Contact Number :	Annamalai West Ext.
3. Name of the student :	DEENADHAYALAN D
4. Duration :	From 1-08-2022 To 31-08-2022
5. Total No. of 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*	B-7.0
------------------	-------

(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)

C.J. K
C.J. KOSALRAMAN
ARCHITECT
Regn. No. CA/97/21275



WORK DIARY

DATE		WORKS	DATE	PROJECT	WORK DONE
11-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Introduction to the project	04-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Preparation of micro schedule (Weekly schedule)
12-07-2022	PICU Renovation @ Chengalpattu, Chennai.	3D model	05-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
13-07-2022	PICU Renovation @ Chengalpattu, Chennai.	BOQ Verification	06-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
14-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Base schedule preparation	08-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Tracking sheet preparation
15-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit	09-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Updating Tracking sheet
16-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Schedule from the contractor	10-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
17-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Updating the base schedule	11-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
18-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Preparation of Master schedule	12-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
19-07-2022	EMM ESS Hospital, Kancheepuram, Chennai.	Site Visit – Column marking	17-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Sample approval
20-07-2022	EMM ESS Hospital, Kancheepuram, Chennai.	BOQ verification, Study of BBS schedule	18-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
21-07-2022	EMM ESS Hospital, Kancheepuram, Chennai.	Base schedule Preparation	19-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
22-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Updating schedule	20-08-2022	PICU Renovation @ Chengalpattu, Chennai.	BOQ quantity verification
25-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Material selection	22-08-2022	PICU Renovation @ Chengalpattu, Chennai.	BOQ quantity verification
26-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Material selection	23-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
27-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit	24-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Weekly schedule preparation
28-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit	25-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Updating tracking sheet
29-07-2022	PICU Renovation @ Chengalpattu, Chennai.	Site meeting	26-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit
01-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site Visit	28-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Updating the Progress photos
02-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Site meeting	29-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Tile selection
03-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Contractor meeting	30-08-2022	PICU Renovation @ Chengalpattu, Chennai.	Sample approval

TABLE OF CONTENTS

CHAPTER 1 : ABOUT THE ORGANIZATION	1
1.1 About projects.....	2
1.2 REASON FOR CHOOSING THE FIRM	2
CHAPTER 2 : PROJECT: PICU renovation @ chengalpattu government hospital	3
2.1 Existing PICU Condition	4
2.2 Proposed plan and views.....	5
2.3 BOQ and Specification.....	6
2.4 Master Schedule	15
2.5 Micro schedule (Week 1)	17
2.6 Micro schedule (Week 2)	18
2.7 Micro Schedule (Week 3)	19
2.8 Micro schedule (Week 4)	20
2.9 Micro schedule (Week 5)	21
2.10 Work progress report.....	22
2.11 Minutes of meeting.....	23
2.12 Tracking Sheet.....	24
CHAPTER 3 : OVERVIEW OF THE PROFESSIONAL TRAINING	29

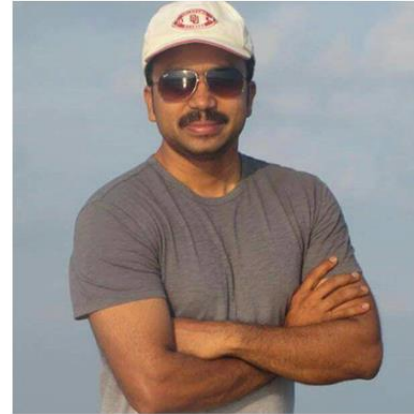
1.ABOUT THE ORGANIZATION

infrabees

Project management consultant

No. 779, 1st Floor, D Sector 9th Street,
Anna Nagar West Extn.,
Chennai – 600 101

Founder
CJ KOSALRAMAN



As a Founder and Principal Architect of Infrabees, Kosalraman has been a registered architect with about 25 years of experience. He has a B.Arch. degree from National Institute of Technology, Tiruchirappalli, Tamil Nadu, India and an M. Arch. degree from the University of Oklahoma, USA. He has extensively worked on projects in the USA and India. In addition he has also worked on large projects in UK, Middle East, Africa and China. His project type experiences are Master Planning, Residential, Education, Commercial, Hospitality, Healthcare, as well as Corporate Campus including Casino's and Interior Design.

Prior to founding Infrabees, as a Principal & Senior Vice President at HKS, he had successfully established from ground up and directed a subsidiary in Chennai, India for HKS Inc.; a USA based large international A&E Firm, and also held its first Managing Director of India Operations position.

He resigned from HKS to self-challenge himself and founded Infrabees in Chennai, India.

ARCHITECTURE

Architecture reflects our in depth knowledge of how people and institutions use as well as experience built forms. We collaboratively work with clients, societies and end users to create buildings that work well on all levels, including empathetically and emotionally. We deliver them across our construction industry with a persistently high standard of care.

INTERIORS

Interiors take an integrated approach to interior design by bringing together the stakeholders and more to create places that delight, heal, and stimulate all the human senses. Our holistic approach to interior architectural design is expressed through a range of capabilities. We continuously focus on creating inspiring spaces across the geography.

PROJECT MANAGEMENT

Project Management involves delivering construction projects from “concept to completion” by adhering to cost efficient, industry best processes to optimize projects execution, minimize foreseeable risks and create value for the end users.

It includes comprehensive project management services across all design and construction disciplines to ensure timely, cost-effective and high quality deliverables. Design Management and Construction Management are the two key responsibilities included in this scope of service.

GREEN DESIGN

Green architecture, or green design, is an approach to building that reduces the harmful effects of construction process on health and the environment of humans. The “green” architect or designer attempts to conserve air, water, and earth by choosing eco-friendly building materials and construction practices thereby reducing building's carbon footprint.

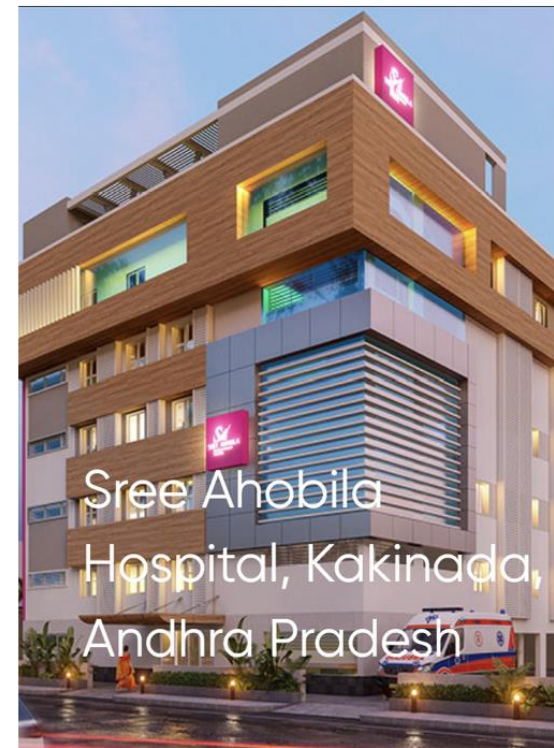
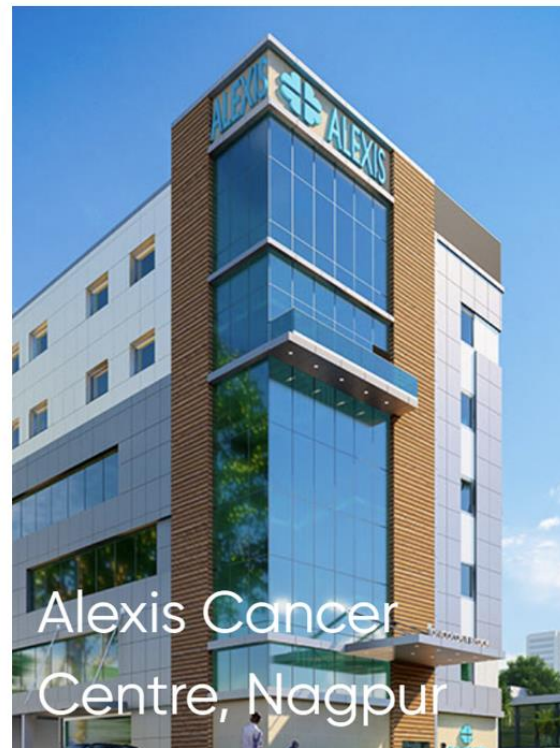
1.1 About projects

Infrabees is a design consultancy that is focused on building projects. We provide clients with a single source responsibility for the design and delivery of projects. We offer services such as architectural design, interior design, project management and green design.

Our complete offering of end-to-end services starting from feasibility study up to commissioning of projects makes client's-built environment a better place to live, work, play and rest. We focus more in the Hospital projects.

2-REASON FOR CHOOSING THE FIRM

- Working in the small firm having the freedom to explore opportunities in every dimension of project management.
- Providing opportunities to be on site and learn the onsite workings and issues and interacting with the clients.



2.PROJECT: PICU RENOVATION @ CHENGALPATTU GOVERNMENT HOSPITAL

PICU RENOVATION PROJECT is the CSR (Corporate social Responsibility Project) funded by Renault through the Sevalaya (charitable trust)

It is the renovation project of the outdated Pediatric ICU of the Chengalpattu government hospital. Previously it was an 8-bed Outdated PICU without having basic facilities to operate. The renovation brings the hospital to a 10-bed updated PICU. This Project is initiated by the Corporate (Renault) as the Corporate Social responsibility project through the sevalaya. The infrabees team has been assigned to lead the project by sevalaya.

Infrabees Project Management Consultant is this project's design and Project management firm.

Construction work is contracted to the Laksha interiors by the Infrabees Project management consultant team.

The project is tracked weekly by the infrabees team and the sevalaya team.

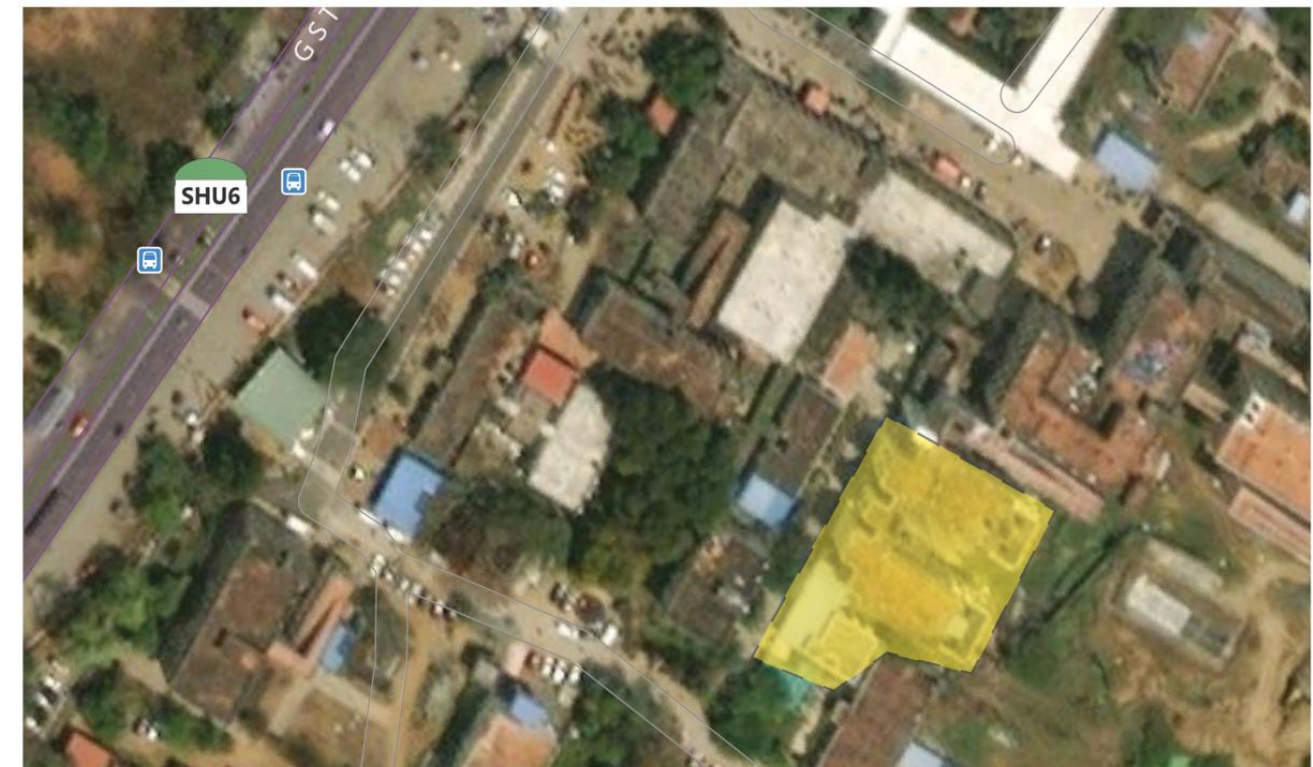
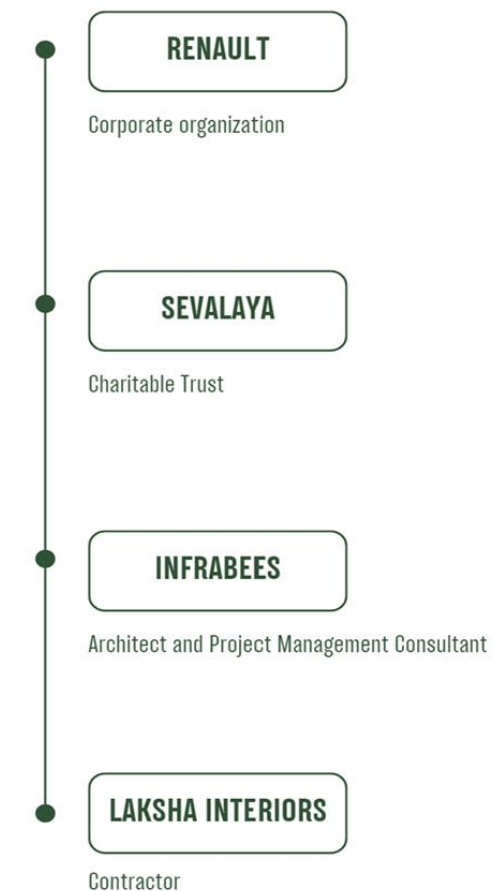
Changes are done only after the approval of the corporate team and Progress is monitored monthly once by the corporate team.

Daily progress reports and progress photos are updated to sevalaya and the corporate team by the infrabees progress management consultant.

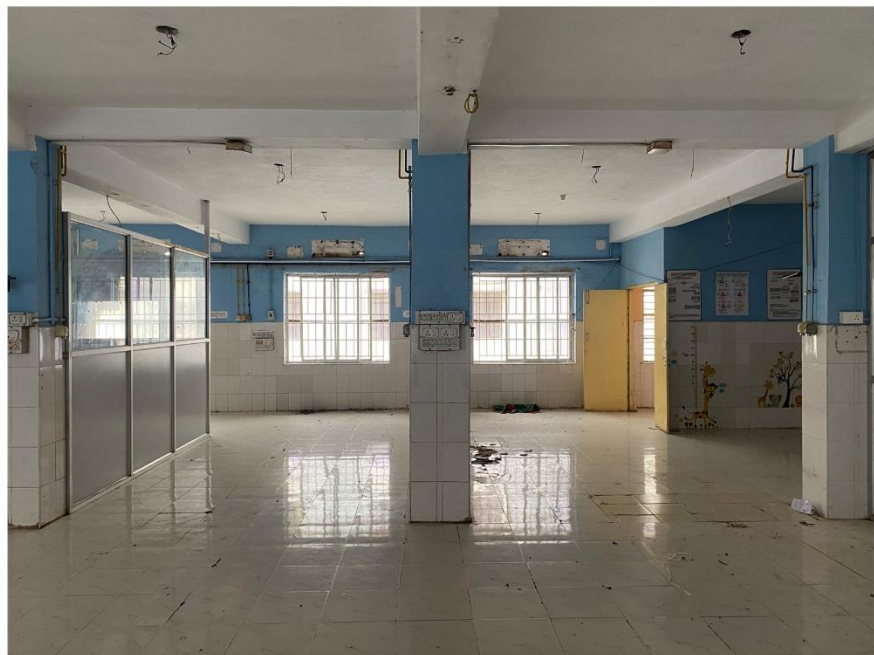
The total cost of the project is around 1cr.

Location

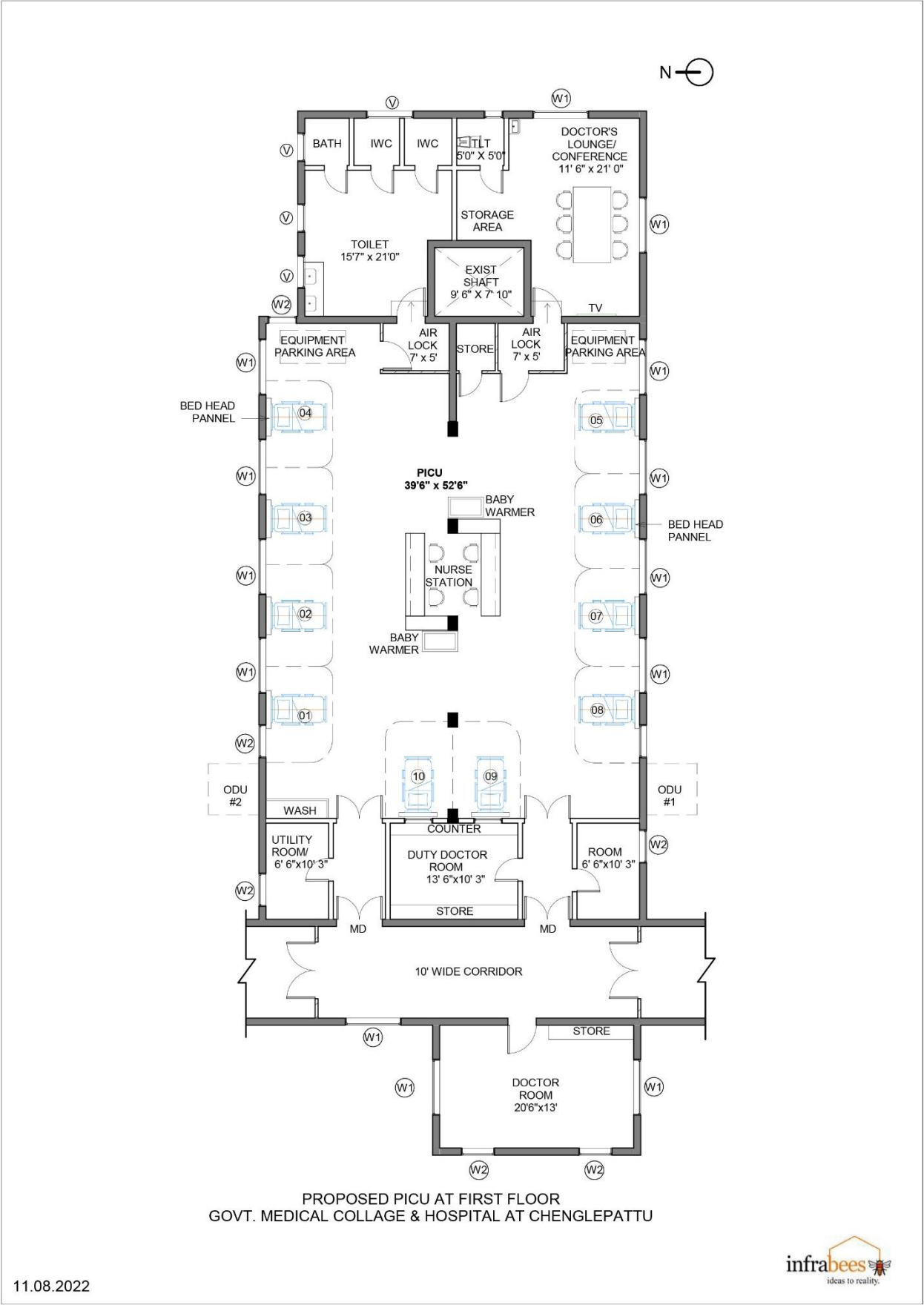
Chengalpattu Government Hospital, State Highway 58, Anna Nagar, Chengalpattu, Tamil Nadu



2.1 Existing PICU Condition



2.2 Proposed plan and views



2.3 BOQ and Specification

Quote for Upgradation of Pediatric ICU at Chengalpet Govt Hospital - 15/06/2022								
S. Nos:	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount	Reason for Usage	Section Total	Remarks
1	Civil						₹ 46,40,636.00	
1.1	Demoliton of Wall and floor	Sqm	345.00	698.00	2,40,810.00			
1.2	Removing of Existing Windows, Grill & Doors	LS	1.00	30,000.00	30,000.00			
1.3	Providing and construction of Solid block Masonry in cement mortar 1:6 for superstructure (10 cm & 15 cm thick) , including cost and conveyance of all materials and all labour charges etc. complete.	Sqm	64.50	1,909.00	1,23,130.50			
1.4	Plastering of new wall with cement mortar 1:4 ,12 mm thick including cost and conveyance of all materials and all labour charges etc. complete.	Sqm	199.00	636.00	1,26,564.00			
1.5	Brick jelly filling (25 cm depth) for necessary depth laid in level, trovelling Including all lead and lift and as directed by the engineer in charge and as per specifications including cost and conveyance of all materials , watering for curing and all labour charges etc.complete.for toilet area	Cum	17.00	5,584.00	94,928.00			
1.6	Water proofing sunken area floors with Fosroc/Roffe chemicals etc including cost and conveyance of all materials and labour charges etc complete.	Sqm	40.00	1,040.00	41,600.00			
1.7	Providing PCC 1:4:8 as bed concrete 0'3" thick using 20mm metal laid in level, including cost of all materials, labour, curing etc	Sqm	280.00	1,390.00	3,89,200.00			
1.8	Supply and provide ceramic tile flooring platform and passage area using Anuj/ Johnson/ Nitco/ Khajaria make 12"x12" size Ceramic tiles set in cm 1:3, pointed joints with necessary binding agent(epoxy grout), including wastage etc complete. Tile basic price is Rs.45/sqft.	Sqm	26.00	1,380.00	35,880.00			
1.9	Supply and provide Dadoing to interior wall faces with Anuj/Johnson/ Nitco / Khajaria make 12"x15" size glazed tiles set in cm 1:3 to pointed joints with necessary binding agent(epoxy grout), including waste, PVC Beading etc complete. Tile basic price is Rs.45/sqft.	Sqm	84.00	1,380.00	1,15,920.00			
1.10	Supply and provide vertified tile flooring to Doctors Room & Lounge using Anuj/Johnson/ Nitco / Khajaria make 24"x24" size Vertified tiles set in cm 1:4, pointed joints with necessary binding agent(epoxy grout). including waste PVC Beading etc complete. Tile basic price is	Sqm	60.00	1,620.00	97,200.00			
1.11	Supply and provide Dadoing to interior wall faces with Anuj/Johnson/ Nitco / Khajaria make 24"x24" size glazed tiles set in cm 1:3 to height of 11'0" pointed joints with necessary binding agent(epoxy grout). including waste. PVC Beading etc complete. Tile	Sqm	218.00	1,620.00	3,53,160.00			
1.12	Supply and fixing of Homogeneous Vinyl Flooring including Self leveing at PICU area (Gerflor or equiv)	Sqm	200.00	3,326.00	6,65,200.00	Specific request by Doctors on		
1.13	Painting - Wall painting with Interior acrylic emulsion paint for internal walls of approved brand and shade. Rate inclusive of one coat of cement based primer, two coats of plaster of paris putty to give an even shade and Painting two coats with ready mixed Plastic Emulsion Paint et , including cost and conveyance of all materilas and labour charges etc complete(Asian or equivalent)	Sqm	60.00	265.00	15,900.00			
1.14	UPVC Sliding Window (Alpine Make)	Sqm	49.00	6,364.00	3,11,836.00			
1.15	MS Grill	Kg	550.00	172.00	94,600.00			

1.16	Nursestation: Providing and fixing of Nursestation made of Laminated Partical Board with drawers as per the drawing (Size : 8' x 3'3" x 2'6" + Side Storage 5' x 2'6" x 1'6")	Nos	2.00	37,356.00	74,712.00	Required for computer for nurses to keep computer or to do any paper work		
1.17	UNI T grid 15mm with 16mm thick USGBORAL Olympia Micro™ ClimaPlus™ Tile. This includes UNI T grid Wall angle of 19mmx19mm shall be screw fixed to brick wall/partition with the help of approved screws at 600mm centers. Then suspending UNI T Main T grid of 15mm x 38mm of length 3600mm is hung with USGBORAL adjustable level clips 80x30x0.7mm & 4mm diameter GI rod which are connected to Soffit Cleat 27x35x1.5mm and Approved dash Fasteners @1200mm centers or as approved from RCC Slab. The Cross T of 15mm x 38mm of 1200mm length shall be interlocked between main T Grid at 600mm centers to form 1200 x 600mm modules. 600 x 600mm modules to be formed by click fitting Cross T of 15mm x 38mm of 600mm length centrally between the 1200mm cross T's. Then 16mm thick USGBORAL Olympia Micro™ ClimaPlus™ ceiling panel having FLB edge of size 595x595 shall be placed into the above grid of size 600x600mm. This ceiling panel confirms to ASTM E84 surface burning characteristics. (Class A, Flame Spread: 25 & Smoke developed: 50) .The Ceiling panel provides NRC 0.50, CAC minimum: 33.Light Reflectance: 0.88, Thermal Resistance: R-1.7 & can withstand Relative Humidity up to RH 99% (limiting conditions –Max 49OC /99%RH).The front & back side of the tile has anti-	Sqm	290.00	980.00	2,84,200.00	2x2 Tiles are used for easy of maintance. Any area can be serviced above False ceiling easily.		
1.18	Providing and fixing of 75mm thick Partition made of GI frame work both side fixed with 12mm thick Bision Board with necessary	Sqm	18.50	4,326.00	80,031.00			
1.19	ICU cubical curtains	Nos.	10.00	17,737.00	1,77,370.00	To ensure privacy is available for all patients during any procedure.		
1.20	Bed Head Unit - aluminium extrusion with round and smooth shape corners , The unit shall have three physically separated compartments (for low and extra low voltage electrical services and for medical gas services, The unit shall be manufactured in accordance with ISO 11197 and EN 793 for "Medical Supply Units" to HTM 2015 and 2022 and to latest edition of IEE and NEC regulations.The aluminium extrusion unit shall have an electrostatic powder paint finish on all external surfaces. The unit shall provision for following services for each patient, 1. 2 no of Oxygen outlet, DIN Type ISO 9170:1990 and BS 5682:1992 compatible 2. 1 no of Medical Vacuum outlet,DIN Type ISO 9170:1990 and BS 5682:1992 compatible 3. 1 no of Medical Air 4 Bar outlet ,DIN TypeISO 9170:1990 and BS 5682:1992 4. 4 no of potential earthing node 5. 1 no of RJ45 data socket 6. 1 no of 18 Watt fluorescent tube with electronic start ballast 7. 1 no of switch for reading and indirect light, and 1 no switch for light near bed. 8. 11 nos of 5/15 amp sockets and 1 no 15 amp socket	Nos	10.00	39,000.00	3,90,000.00	To ensure all fittings are serviceable easily.		
1.21	Hermatically Sealed Doors - Manual sliding or opening one side, HPCL 60mm thick, Vision glass including , fitting included.	Sqm	14.00	21,000.00	2,94,000.00	To ensure no air leak is there between spaces.		

1.22	Providing and fixing of Aluminium Partition with novapan board with necessary hardwares etc	Sqm	14.00	4,165.00	58,310.00	Entrance area		
1.23	Providing and fixing of Aluminium door made of aluminium frame fixed with novapan board and glass with necessary hardwares etc	Sqm	12.00	6,016.00	72,192.00	Entrance area		
1.24	Providing and fixing of WPC Door with necessary hardwares etc	Sqm	20.00	4,975.00	99,500.00	Utility, Duty Doctor, Airlock and lounge		
1.25	Providing and fixing of PVC Door at Toilet area	Sqm	9.00	2,892.00	26,028.00			
1.26	Providing and fixing of Mirror	Sqm	1.50	3,703.00	5,554.50			
1.27	Providing and fixing of 450 depth Storage made of Ply finished with laminate with necessary hardwares etc	Sqm	26.00	13,185.00	3,42,810.00			
	Total (Sl. No. 1. Civil)				46,40,636.00			
2	HVAC - Heating, ventilation, and air conditioning (Carrier / LG / Samsung)						₹ 14,38,998.00	
2.1	AIR HANDLING UNIT	Nos	1.00	6,40,700.00	6,40,700.00	It is the unit which gives out cold air by using the gas from the outdoor unit. Ducts will be connected to this unit.		
	a) Double skin AHU complete with mixing box,pre-filter section cooling coil,fan,finefilters,volume control dampers for supply,return fresh air.							
	b) Static Pressure (mm wg)-40-80							
	c) Overall Dimension(in Mtrs) -3.30 x2.0 x0.95(LxWxH)							
	d) Construction -25mm PufMoulded Double Skin Detachable panels							
	e) Structural –Extruded Spl Alloy A1 Profiles filled with PUF							
	f) Insulation Material/thickness -25mm Thick Puf with 45kg/m3							
	g) Fan Make & Type –Nicotra or Kruger make DIDW Backward Curve Centrifugal Fan							
	h) Motor HP –Included – 5HP							
	i) Drive Arrangement –Taper Lock Pulleys for Fan & Motor Both							
	j) Type of Balancing/Test Procedure –Statically & Dynamically/AMCA Tested							
	k) Filters Provision –Pre Filters							
	l) Coil Type – Cooling Coil 6 rows							
	m) Hardware –Galvanized, Operation Wt(Kgs) –Approx-240							
	n) Supply unit capacity: 7200CFM@40-80mm SP							
	UV filtration shall be provided. vibration isolators as per the AHU specifications.Coil size shall be selected for a maximum face velocity of 500 feet/minute and static pressure shall be as indicated. The motor selected shall be energy efficient having efficiency (Class I) at full load ranging between 82.5% to 92% in accordance with motor rating as per specification.Motor shall be suitable for 415±10% volts, 50 cycles 3 phase AC supply.							
2.2	Hepa Filter Unit in return air Duct with Plenum Box	Nos	2.00	15,818.00	31,636.00	Incase any air borne infections present in the ICU, the Hepa filter will purify the same		
	a)Cabinet made from GI Powder coated							
	b)Dimension: 2'x2'							
	c)HEPA Filter:							
	Size:610x 610x100mm-2nos							

	Type: Box Type							
	Media: Ultra clean glass fibre paper- imported							
	Retention: 0.3 Micron							
	Efficiency : 99.97%							
	Cleanliness level : Class 1000							
2.3	Copper Pipe Integration of AHU & AC Condensing Unit with 15 mm thermal Insulation	LS	2.00	59,791.00	1,19,582.00	Gas from the outdoor unit is sent to the AHU and returns back to the outdoor unit. This pipe is used for the same		
2.4	Supply, Fabrication, installation and testing of GI sheet metal ducts (Machine made) in accordance with the approved shop drawings complete with all accessories like vanes, flanges, suspension rods , anchor bolts, GI bolts & nuts, canvas connections , duct dampers & splitter dampers etc.,and as required by the specifications. 0-750mm-----24 G----- TDE	Sq.mtr	26.00	1,935.00	50,310.00			
2.5	SITC of following thick closed cell nitrile rubber foam with aluminium foil and properties of class O ,anti microbail,density of 40-60kg/m3 and applying the same on duct with glue. 9mm thick for ventillation ducts	sq.mtr	26.00	1,612.00	41,912.00			
2.6	Supply, installation, testing and commissioning of Fire damper with fusible links and limit switch as per specifications.	sq.mtr	2.00	17,415.00	34,830.00	For fire safety		
2.7	Supply, installation, testing and balancing of square shape powder coated Extruded Aluminium diffusers with damper for Supply air, removable core & anti smudge ring & dampers as per approved shop drawings	sq.mtr	1.50	12,900.00	19,350.00	the end low side products used at the user end for airflow		
2.8	Supply, installation, testing and balancing of powder coated Extruded Aluminium air Grilles without dampers for supply and return air in accordance with the approved shop drawings.	Nos	6.00	3,762.00	22,572.00	the end low side products used at the user end for airflow		
2.9	AHU PANEL (2WAY)					Electrical panel for HVAC		
	Incomer :							
	100/125A TPN Isolator - 1No							
	Meters							
	(a) Multifunction energymeter with displays for voltage, current, frequency, power and power factor with necessary CT's and communication port -1Nos.							
	(b)RYB indication lamp with 2A SP MCB - 1set.							
	Out going :							
	32/A TP MCCB(Ics 18kA) -2Nos							
	All MCCB's are with Rotary operated handle and necessary							
	125Amps continuous duty, 415Volts A/C for 3 phase and neutral Cu busbar with 1.2A/Sqmm density, colour coded heat shrink sleeves supported on SMC type grip supports of suitable kA rating							
	Panel Enclosure							
	Switch Gears & Acessories							
	Supply,fabrication,unloading, installation, testing and commissioning of panel as per above.	Nos	1.00	93,256.00	93,256.00			
	VFD STARTER PANEL FOR AHU's					To control speed for AHU		

	Supply, installation, testing and commissioning of VFD starter panels for AHU. The panel shall be suitable rated VFD, Incomer MCB, Suitable rated	No	1.00	43,000.00	43,000.00			
2.10	DX Unit					Outdoor Unit		
	Capacity Out Door Units 8.5 TR Power Supply Out Door Unit 400+ /- 10 % 3ph 50 Hz Indoor Unit 230 V + /- 10 % 1ph 50 Hz	Nos	1.00	1,32,225.00	1,32,225.00			
	Capacity Out Door Units 11 TR Power Supply Out Door Unit 400+ /- 10 % 3ph 50 Hz Indoor Unit 230 V + /- 10 % 1ph 50 Hz	Nos	1.00	2,09,625.00	2,09,625.00			
	Total (Sl. No. 2. HVAC)				14,38,998.00			
3	Electrical						₹ 6,68,488.60	
	DBs (Hager / Standard Make)							
3.1	Supply, installation and testing of 3ph 12 way 7 Segment MCB DB dust tight vermin proof with 63A 4P ISO as incoming, 63 A, 2 pole RCCB 30mA -3Nos incoming and 6A/10A/16 A MCB 36 Nos's as outgoing (C	Nos	1.00	21,231.00	21,231.00	For Main Line		
3.2	Supply, installation and testing of 1ph 12 way SPN MCB DB (double door) dust tight vermin proof having Cu bus bar with 25A, DP ELCB with MCB 30mA sensitivity as incoming and 6A/16 A /20 A MCB as outgoing (C Curve)	no	1.00	17,737.00	17,737.00	For UPS		
	POINT WIRING (Finolex / Vguard)							
	Supply and wiring charges for wiring light points in concealed using 1.5sq.mm PVC FRLS insulated copper wire through 20mm dia rigid GI/MS/PVC conduits dia 1.5mm thick along RCC and walls with 1.5 sq.mm PVC FRLS insulated copper wire for continuous earth with all specials such as bend, junction box etc., including supply and fixing 3 plate ceiling rose							
3.3	One light point controlled by one switch 3Mtr	Nos	22.00	1,126.00	24,772.00			
3.4	One light point controlled by one switch 4.5Mtr	Nos	12.00	1,371.00	16,452.00			
3.5	Supply and fixing 6Amps modular type switch and 3 pin socket on metal	Nos	154.00	924.00	1,42,296.00	Considering 11 , 6Amp sockets		
3.6	Supply, installation, testing and commissioning of 6/16A power plug with 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	Nos	22.00	924.00	20,328.00			
3.7	Supply and wiring run 3x2.5sq.mm PVC insulated FRLS copper wire through trunking or 20mm dia MS conduit using bend, junction box etc., for circuit wiring from distribution board. (for Lighting/Sub circuit looping for power)	Mtr	450.00	175.00	78,750.00			
3.8	Supply and wiring run 3x4sq.mm PVC insulated FRLS copper wire through trunking or recessed 20mm dia MS conduit with inspection type accessories for wiring power plug points from distribution board.	Mtr	450.00	288.00	1,29,600.00			

3.9	Supply of 2'X2' fully diffused with electronic driver duly wired upto terminal block, Wattage of 28W to 31W and luminaire lumens with system efficacy of > 116 lm/W. LED Efficacy of > 150lm/W, Colour Temperature - 6500K Inbuilt Surge protection in CM ≥ 3.0KV, LED Driver with Voltage range 150-270V AC and Safety Extra Low Voltage Safe level<60V DC as per IEC standard, Electrical Safety with Class 1 Insulation. Luminaire luminous Efficacy≥116lm/W. Driver shall be potted driver and both driver and luminaire shall be PIC compliance	Nos	18.00	4,472.00	80,496.00	Coridoor and central lighting		
3.10	18W Recessed Circular LED downlight 1500Lumen-6500K	Nos	16.00	1,913.00	30,608.00	Bed side lights.		
3.11	Supply and installation of perforated closed cable tray- 200 mm x 50mm with suitable supports Not more than an interval of 1mtr	Mtr	63.20	671.00	42,407.20	For maintance ease and future upgradations.		
3.12	Supply and laying of 25mm Metal ISI conduits with all accessories	Mtr	95.45	172.00	16,417.40	To ensure rats don't bite the wire.		
3.13	Supply and fixing of Fan with regulator and switch	Nos	18.00	2,633.00	47,394.00			
	Total (Sl. No. 3. Electrical)				6,68,488.60			
4	FIRE safety						₹ 2,52,781.00	
4.1	4Kg Fire Extinguisher (MAP 50%) ABC Type: New 4Kg Fire Extinguisher Mono Ammonium Phosphate Powder 50%, Stored Pressure Type, Pressure Gauge, Controllable discharge mechanism with Hose & Nozzle, Class A Rating 2A & Class B rating 21B (ABC Dry Chemical Powder	Nos	8.00	3,193.00	25,544.00	Kanex Make		
4.2	Supply, installation, testing & commissioning of addressable fire alarm control panel with battery back up for 24 hours normal operation & 30 minutes alarm operation. Control panel, battery charger etc, shall be UL listed. The panel shall be of suitable loop capacity (considering 25 detectors or devices, of any combination), Space for loop cards upto total loops shall be available in the panel. The system shall meet the requirements as per ISO (Bavel Avani Make)	Nos	1.00	84,387.00	84,387.00	Used for indicationg the fire or smoke in areas where sensor has been placed		
4.3	Supply, installation, testing & commissioning of addressable multisensor detector, programmable for timed automatic sensitivity selection with base & other accessories as mentioned vide technical specification. Detectors shall be UL listed.	Each	17.00	3,042.00	51,714.00	Helps in detecting fire and connected to the alarm panel		
4.4	Supply, installation, testing & commissioning of Manual pull station of	Each	2.00	4,063.00	8,126.00	For Manual emergency call.		
4.5	Supply, installation, testing & commissioning of of Horn / Strobe rated at 85/90 dBA @ 3m for audible annunciation & 75cd flashintg at 1 Hz for visual indication..	Each	2.00	2,415.00	4,830.00	Visual and audio alrts during fire		
4.6	Supply and installation of 2 Core X 1.5 Sqmm PVC sheathed FRLS copper armoured cables for detectors with necessary clamps and spacer saddles etc.	LS	1.00	38,094.00	38,094.00	Armoured , fire resistant.		
4.7	Supply and installation of smoke exhaust fans. Should be intergrated with Fire alarm to auto start during fire.	Nos	2.00	6,987.00	13,974.00	For exhaust of smoke during fire.		
4.8	Supplying and installing in position LED "FIRE EXIT" sign boards of size (180 X 300 mm) 3W with self contained battery backup.	Nos	2.00	725.00	1,450.00	Emergency Inidcation		

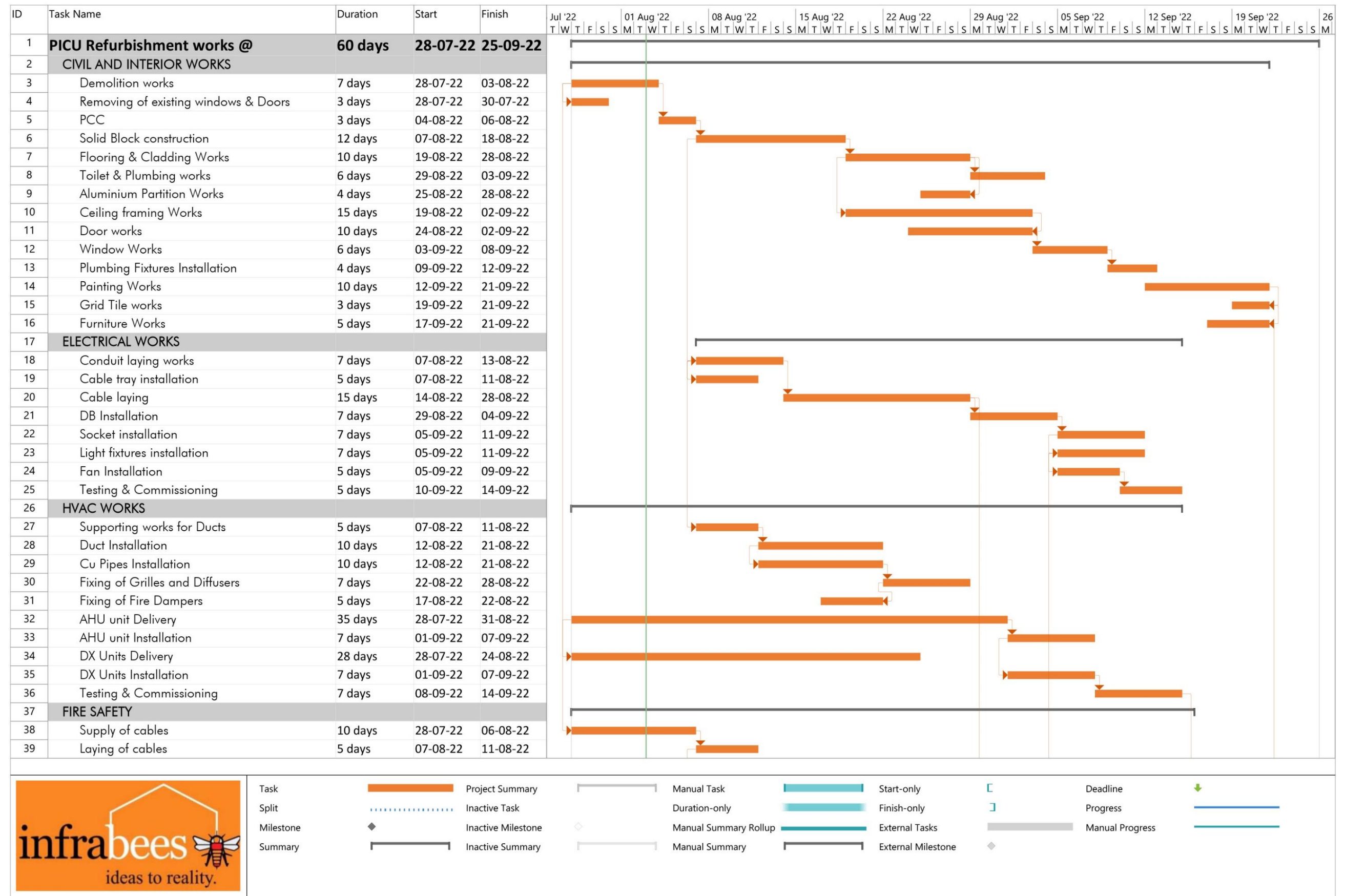
4.9	Supplying and installing in position self glowing "MANUAL CALL POINT" sign boards of size (150 X 150 mm) made of luminescent safely, rigid sheet in green colour, photo luminescent fixed on the wall. Samples has to approved by the Architect before procuring the same.	Nos	2.00	725.00	1,450.00	Emergency Indication		
4.10	Supply Installation of Self glowing sign board FIRE EXIT (Size 16X6) made of luminescent safely.Rigid sheet in green colour.Photo luminescent acrylic sheet with two hanging chain (Double Side)	Nos	8.00	725.00	5,800.00	Emergency Indication		
4.11	"Fire Extinguisher" sign board of size (300x100 mm) made of Nonluminescent safely, rigid sheet in green colour with necessary supports to hang it on ceiling. TAMIL & ENGLISH	Nos	4.00	725.00	2,900.00	Emergency Indication		
4.12	Evacuation plan to be printed and laminated in each floors (size : A2:594X420)	Nos	2.00	7,256.00	14,512.00	Emergency Indication		
	Total (Sl. No. 4. Fire Safety)				2,52,781.00			
5	Central Monitoring System (Provision only - for future use)						₹ 1,16,875.00	
5.1	Supply and laying of Cat 6 utp cable	Mtr	550.00	52.00	28,600.00			
5.2	Supply and installation of perforated closed cable tray- 100 mm x 50mm with suitable supports Not more than an interval of 1mtr	Mtr	35.00	1,161.00	40,635.00			
5.3	Supply and laying of 25mm MS ISI conduits with all accessories.	Mtr	120.00	397.00	47,640.00			
	Total (Sl. No. 5. Central Monitoring System)				1,16,875.00			
6	Public Address System					For emergency	₹ 36,066.00	
6.1	Suppy and Installation of ceiling mount 6W Speaker for PA system (Bosch)	Nos	2.00	1,335.00	2,670.00			
6.2	Supply and Installation of amplifier - 2 channel (Ahuja)	Nos	1.00	20,317.00	20,317.00			
6.3	Supply and installation of 2 core 1.5 sq mm copper multistranded armoured cable for PA system	Mtr	56.00	150.00	8,400.00			
6.4	3u Rack for Amplifier (Reputed)	Nos	1.00	4,679.00	4,679.00			
	Total (Sl. No. 6. Public Address System)				36,066.00			
7	Telephone System					For emergency	₹ 46,771.00	
7.1	Supply and laying of 2 pair unshielded telephone cable through	Mtr	120.00	43.00	5,160.00			
7.2	Supply and installation of RJ11 outlet for telephone cable	Nos	4.00	145.00	580.00			
7.3	Supply and installation of 10 Pair Crone box for telephone cable termination	Nos	1.00	2,031.00	2,031.00			
7.4	Supply and laying of 25mm MS ISI conduits with all accessories	LS	1.00	39,000.00	39,000.00			
	Total (Sl. No. 7. Telephone System)				46,771.00			
8	Medical Gas						₹ 5,41,543.00	
	MEDICAL GAS DEGREASED COPPER PIPE:							
	Medical quality copper tube cleaned, degreased, capped and bagged and							
8.1	10 MM x 0.9 thk	Mtr	127.00	526.00	66,802.00			
8.2	15MM x 0.9 thk	Mtr	137.00	918.00	1,25,766.00			
8.3	22MM x 0.9 thk	Mtr	45.00	1,279.00	57,555.00			
	MEDICAL GAS WALL MOUNTED OUTLETS (Without Dropline) :							
8.4	Oxygen	Nos	26.00	3,010.00	78,260.00			
8.5	Medical Air 4 Bar	Nos	8.00	3,010.00	24,080.00			
8.6	Vacuum	Nos	8.00	3,010.00	24,080.00			
8.7	AREA VALVE SERVICE UNIT: 3 Gas	Nos	3.00	36,000.00	1,08,000.00	Valves to isolate areas		
8.8	AREA ALARM PANEL: 3 Gas	Nos	1.00	42,000.00	42,000.00	Alarm to know when gas pressure reduces		
8.9	Gas pipeline Removal	LS	1.00	15,000.00	15,000.00			

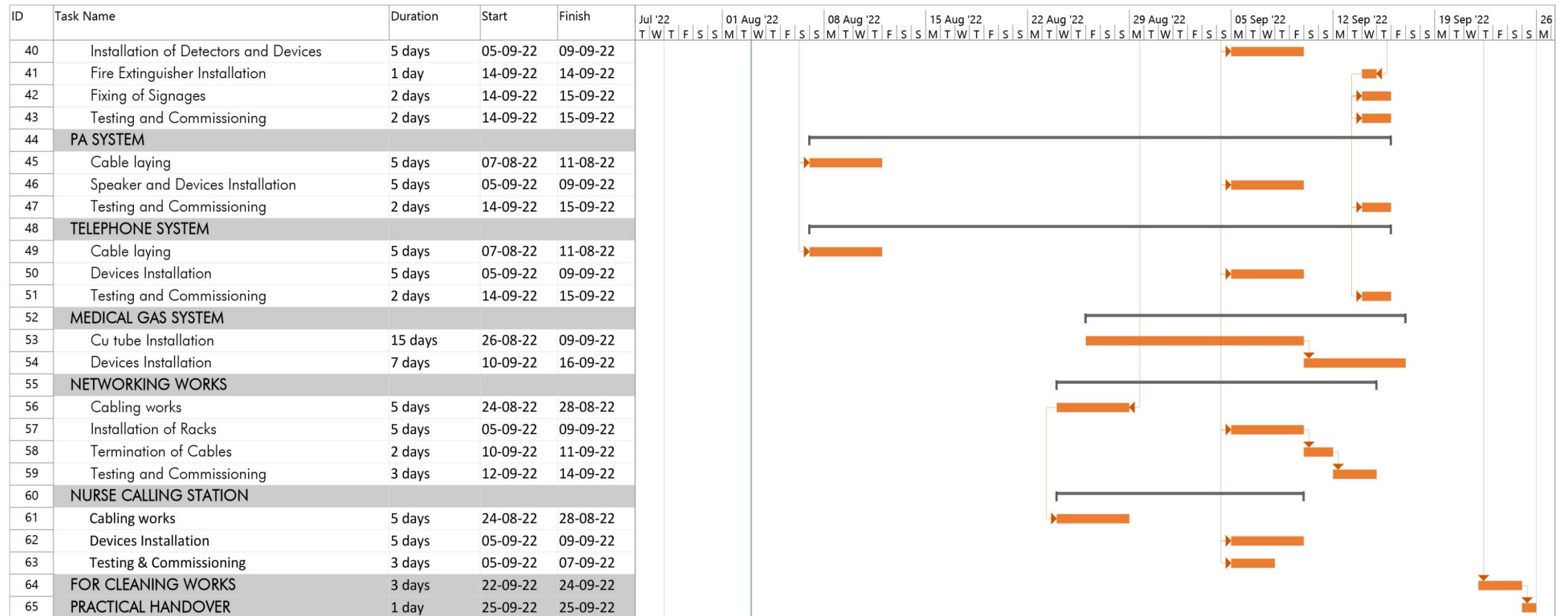
	Total (Sl. No. 8. Medical Gas)				5,41,543.00			
9	PLUMBING						2,04,615.00	
9.1	Supply and fixing White colour wash basin of Parryware make including	NOS	2.00	7,901.00	15,802.00			
9.2	Supply and fixing White colour IWC of Parryware make Orissa pan including 'P' trap including removing of existing IWC necessary accessories etc complete	NOS	3.00	5,643.00	16,929.00			
9.3	Supply and fixing White colour western WC of parryware make including	NOS	2.00	12,093.00	24,186.00			
9.4	Provide 1" dia PVC pipe waterline of Finolex/ ashirvad make including necessary PVC fittings	RM	62.00	575.00	35,650.00			
9.5	Supply and fix Waterman make ½" size Bib cock/Angle cock	NOS	12.00	1,370.00	16,440.00			
9.6	Supply and fix 1" dia valve control to waterline of ISI make to be fixed to the supply line from the tank	NOS	5.00	2,386.00	11,930.00			
9.7	Providing 0'4" size Stoneware Gully Trap with necessary bed and brickwork 4"x4" grating etc complete	NOS	8.00	2,128.00	17,024.00			
9.8	Supply and provide 4" dia 6Kg/cm2 PVC pipe waste waterline and vent pipe of Finolex/ Ashirvad make including necessary PVC fittings using cement solvent to joints	RM	32.00	924.00	29,568.00			
9.9	Supply and provide Sintex/ reno/ ganga make 3 layer PVC water tank 2000 litres capacity including accessories valve etc complete. as per direction of Engineer in Charge	NOS	1.00	27,412.00	27,412.00			
9.10	Providing and fixing of shower	NOS	2.00	4,837.00	9,674.00			
	Total (Sl. No. 9. Plumbing)				2,04,615.00			
10	DATA WIRING						1,21,587.00	
10.1	Supply, installation, testing and commissioning of data outlet box with cover plate, metal box and data socket.	Nos.	19.00	727.00	13,813.00			
10.2	Supply, installation, testing and commissioning of enhanced Cat 6	Rmt	773.00	36.00	27,828.00			
10.3	Supply and installation of 24 Port POE switch with all the accessories.	Nos.	1.00	21,998.00	21,998.00			
10.4	Supply and installation of 24 Port patch panel with all the necessary accessories.	Nos.	1.00	3,966.00	3,966.00			
10.5	Supply and installation of 16U rack with all necessary accessories.	Nos.	1.00	22,962.00	22,962.00			
10.6	Supply and laying of 20mm PVC conduits including all the accessories like clamps, saddles, pull boxes for data wiring.	Rmt	660.00	47.00	31,020.00			
	Total (Sl. No. 10. Data Wiring)				1,21,587.00			
11	NURSE CALLING SYSTEM						1,02,753.00	
11.1	Supply, installation, testing and commissioning of nurse calling points with cover plate, metal box and pendent call switch, reset switch, etc with all other accessories to complete the system to function.	Nos.	13.00	3,662.00	47,606.00			
11.2	Supply, installation, testing and commissioning of nurse call station with display, buzzer, cover plate, metal box, etc with all other accessories to complete the system to function.	Nos.	1.00	36,057.00	36,057.00			
11.3	Supply, installation, testing and commissioning of enhanced Cat 6	Rmt	230.00	36.00	8,280.00			

11.4	Supply and laying of 20mm PVC onduits including all the accessories like clamps, saddles, pull boxes for nurse calling system.	Rmt	230.00	47.00	10,810.00			
	Total (Sl. No. 11. Nurse Calling System)				1,02,753.00			
12	Project Inauguration							
12.1	Project Launch & dedication events		1.00					
12.2	Branding: Steel / Stone plaques placed with RNAIPL branding acknowledging CSR Support by RNAIPL for the development of PICU		1.00					
12.3	Photography & Documentation		1.00					
	Total (Sl. No. 12. Project Inauguration)				-			
	A. NETT TOTAL (Sl. No 1 to 12)				81,71,113.60			
	GRAND TOTAL (A+B)				81,71,113.60			
	GST@18%: Civil				8,35,314.48			
	GST@18%: HVAC				2,59,019.64			
	GST@18%: Electrical				1,20,327.95			
	GST@18%: Fire Safety				45,500.58			
	GST@18%: Central Monitoring System				21,037.50			
	GST@18%: Public Address System				6,491.88			
	GST@18%: Telephone System				8,418.78			
	GST@18%: Medical Gas				97,477.74			
	GST@18%: Plumbing				36,830.70			
	GST@18%: Data Wiring				21,885.66			
	GST@18%: Nurse Calling System				18,495.54			
	GRAND PROJECT TOTAL				96,41,914.05			

2.4 Master Schedule

P I C U P R O J E C T @ C H E N G E L P A T T U





Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

2.5 Micro schedule (Week 1)

PICU Project @ Chengalpattu GH- Weekly Schedule					
W E E K - 1 (Aug 01 - Aug 07) 2022					
S.No	Task name	Start	Finish	Duration	Remarks
	Activity for Monday (Aug 01)	01-08-2022	01-08-2022	1 Day	
1	Demolition of North side wall				
2	Demolition of South side wall				
3	Removal of grill				
4	Removal of Ro plant Equipments				
5	Delivery of sand				
6	Delivery of Cement				
7	Delivery of Brick				
8	Delivery of Aggregate 20mm				
	Activity for Tuesday (Aug 02)	02-08-2022	02-08-2022	1 Day	
1	Kadapa Slab removal as per the doctor request				
2	Demolition of floor tile in RO Room area				
3	Removal of slab in RO Room				
4	Entire Debris Removal				
5	Window Removal				
6	Shifting of material Ground floor to first floor PICU Area				
	Activity for Wednesday (Aug 03)	03-08-2022	03-08-2022	1 Day	
1	Floor Marking				
2	Inspection and Approval by Sevalaya and Doctor Team				
3	Stage - 1 Block Work Started after the approval				
4	Ordering of DX Units 8.5 tr - 2 Nos				
5	Sample Approval				
	Activity for Thursday (Aug 04)	04-08-2022	04-08-2022	1 Day	
1	Construction of Stage -2 Block work				
	Activity for Friday (Aug 05)	05-08-2022	05-08-2022	1 Day	
1	Laying PCC in North area				
	Activity for Saturday (Aug 06)	06-08-2022	06-08-2022	1 Day	
1	Laying PCC in South area				
	Activity for Sunday (Aug 07)	Nil	Nil	Nil	
	Nil				

2.6 Micro schedule (Week 2)

PICU Project @ Chengalpattu GH- Weekly Schedule					
W E E K - 2 (Aug 08 - Aug 14) 2022					
S.No	Task name	Start	Finish	Duration	Remarks
	Activity for Monday (Aug 08)	08-08-2022	08-08-2022	1 Day	
1	Surface cleaning and removal of debris				
2	Laying PCC in north area				
3	Sample Approval				
	Activity for Tuesday (Aug 09)	09-08-2022	09-08-2022	1 Day	
1	Laying PCC in South area				
	Activity for Wednesday (Aug 10)	10-08-2022	10-08-2022	1 Day	
1	Laying PCC in Remain Area				
	Activity for Thursday (Aug 11)	11-08-2022	11-08-2022	1 Day	
1	Block work construction				
2	Delivery of cables				
3	Delivery of conduits				
4	Delivery of cable tray				
	Activity for Friday (Aug 12)	12-08-2022	12-08-2022	1 Day	
1	Block work construction				
2	Electrical conduit work				
3	Cable tray installation				
	Activity for Saturday (Aug 13)	13-08-2022	13-08-2022	1 Day	
1	Block work construction				
2	Electrical conduit work				
3	Cable tray installation				
	Activity for Sunday (Aug 14)	Nil	Nil	Nil	
	Nil				

2.7 Micro Schedule (Week 3)

PICU Project @ Chengalpattu GH- Weekly Schedule					
WEEK - 3 (Aug 15 - Aug 21) 2022					
S.No	Task name	Start	Finish	Duration	Remarks
	Activity for Monday (Aug 15)	15-08-2022	15-08-2022	1 Day	
1	Block work construction				
2	Delivery of cables				
3	Delivery of cable tray				
4	Delivery of conduits	16-08-2022	16-08-2022	1 Day	
	Activity for Tuesday (Aug 16)				
1	Block work construction				
2	Electrical conduit work				
3	Cable tray installation	17-08-2022	17-08-2022	1 Day	
	Activity for Wednesday (Aug 17)				
1	Block work construction				
2	Electrical conduit work				
3	Cable tray installation	18-08-2022	18-08-2022	1 Day	
	Activity for Thursday (Aug 18)				
1	Block work construction				
2	Electrical conduit work				
3	Cable tray installation	19-08-2022	19-08-2022	1 Day	
4	Supporting works for duct				
	Activity for Friday (Aug 19)				
1	Block work construction				
2	Electrical conduit work	20-08-2022	20-08-2022	1 Day	
3	Cable tray installation				
4	Supporting works for duct				
	Activity for Saturday (Aug 20)				
1	Block work construction	20-08-2022	20-08-2022	1 Day	
2	Electrical conduit work				
3	Cable tray installation				
4	Supporting works for duct				
	Activity for Sunday (Aug 21)	Nil	Nil	Nil	
	Nil				

2.8 Micro schedule (Week 4)

PICU Project @ Chengalpattu GH- Weekly Schedule					
WEEK - 4 (Aug 22 - Aug 28) 2022					
S.No	Task name	Start	Finish	Duration	Remarks
	Activity for Monday (Aug 22)	22-08-2022	22-08-2022	1 Day	
1	Block work construction				
2	Electrical conduit work				
3	Supporting works for duct				
	Activity for Tuesday (Aug 23)	23-08-2022	23-08-2022	1 Day	
1	Block work construction				
2	Electrical conduit work				
3	Supporting works for duct				
4	Ceiling framing work				
	Activity for Wednesday (Aug 24)	24-08-2022	24-08-2022	1 Day	
1	Flooring work				
2	Electrical conduit work				
3	Supporting works for duct				
4	Ceiling framing work				
	Activity for Thursday (Aug 25)	25-08-2022	25-08-2022	1 Day	
1	Flooring work				
2	Electrical conduit work				
3	Ceiling framing work				
4	Duct installation				
	Activity for Friday (Aug 26)	26-08-2022	26-08-2022	1 Day	
1	Flooring work				
2	Electrical conduit work				
3	Ceiling framing work				
4	Duct installation				
	Activity for Saturday (Aug 27)	27-08-2022	27-08-2022	1 Day	
1	Flooring work				
2	Electrical conduit work				
3	Cable Laying				
4	Ceiling framing work				
5	Duct installation				
	Activity for Sunday (Aug 28)	Nil	Nil	Nil	
1	Nil				

2.9 Micro schedule (Week 5)

PICU Project @ Chengalpattu GH- Weekly Schedule					
W E E K - 5 (Aug 29 - Sep 04) 2022					
S.No	Task name	Start	Finish	Duration	Remarks
	Activity for Monday (Aug 29)	29-08-2022	29-08-2022	1 Day	
1	Cable laying works				
2	Ceiling framing works				
3	Data cabling works				
4	Plumbing works	30-08-2022	30-08-2022	1 Day	
	Activity for Tuesday (Aug 30)				
1	Cable laying works				
2	Ceiling framing works				
3	Plumbing works	31-08-2022	31-08-2022	1 Day	
	Activity for Wednesday (Aug 31)				
1	Block work construction				
2	Electrical conduit work				
3	Data cabling works	01-09-2022	01-09-2022	1 Day	
	Activity for Thursday (Sep 01)				
1	Cable laying works				
2	Ceiling framing works				
3	Data cabling works	03-09-2022	03-09-2022	1 Day	
4	Plumbing works				
	Activity for Friday (Sep 02)				
1	Cable laying works				
2	Duct installation	04-09-2022	04-09-2022	1 Day	
3	Data cabling works				
4	Plumbing works				
	Activity for Saturday (Sep 02)				
1	Cable laying works	Nil	Nil	Nil	
2	Duct installation				
3	Data cabling works				
4	Plumbing works				
	Activity for Sunday (Aug 03)	Nil	Nil	Nil	
	Nil				

2.10 Work progress report

INFRABEES PROJECT MANAGEMENT CONSULTANTS PVT LTD., CHENNAI - 600101 PICU Project @ Chengalpattu GH - Baseline schedule				
S.No	Task Name	Percentage of work completed		
	PICU Refurbishment works			
	CIVIL AND INTERIOR WORKS			
1	Demolition works	100%		
2	Removing of existing windows & Doors	100%		
3	PCC	100%		
4	Solid Block construction	100%		
5	Flooring & Cladding Works			
6	Toilet & Plumbing works	75%		
7	Aluminium Partition Works	90%		
8	Ceiling framing Works			
9	Door works			
10	Window Works	80%		
11	Plumbing Fixtures Installation	75%		
12	Painting Works			
13	Grid Tile works			
14	Furniture Works			
	Total percentage	75%		
	ELECTRICAL WORKS			
15	Conduit laying works	100%		
16	Cable tray installation	100%		
17	Cable laying	100%		
18	DB Installation	100%		
19	Socket installation	50%		
20	Light fixtures installation			
21	Fan Installation			
22	Testing & Commissioning			
	Total Percentage	80%		
	HVAC WORKS			
23	Supporting works for Ducts	70%		
24	Duct Installation			
25	Cu Pipes Installation			
26	Fixing of Grilles and Diffusers			
27	Fixing of Fire Dampers			
28	AHU unit Delivery			
29	AHU unit Installation			
30	DX Units Delivery			
31	DX Units Installation			
32	Testing & Commissioning			
	Total percentage	30%		
	FIRE SAFETY			
33	Supply of cables	100%		
34	Laying of cables	100%		
35	Installation of Detectors and Devices			
36	Fire Extinguisher Installation			
37	Fixing of Signages			
38	Testing and Commissioning			
	Total percentage	50%		
	PA SYSTEM			

39	Cable laying	100%		
40	Speaker and Devices Installation			
41	Testing and Commissioning			
	Total percentage	60%		
	TELEPHONE SYSTEM			
42	Cable laying	100%		
43	Devices Installation			
44	Testing and Commissioning			
	Total percentage	60%		
	MEDICAL GAS SYSTEM			
45	Cu tube Installation			
46	Devices Installation			
	Total percentage	60%		
	NETWORKING WORKS			
47	Cabling works	100%		
48	Installation of Racks			
49	Termination of Cables			
50	Testing and Commissioning			
	Total percentage	60%		
	FINAL CLEANING WORKS			
	PRACTICAL HANDOVER			

2.11 Minutes of meeting

PICU Minutes of Meeting - 11.08.22

Dear all,

As per Discussion with Doctors Team at Site,

A. Please find followings points covered under BOQ.

1. Doctor's Lounge Toilet 5' x 5' – located at North East corner with WC facing South. Washbasin to be provided outside at South Wall, Door swings outside on West wall.
2. Airlock at patient's toilet , Doctor's lounge and store area partition to be provided with Calcium Silicate Board.
3. Airlock for Patient's toilet Door will be accessed from North side.
4. 2 Nos. of Fixed windows for Duty Doctor room to be provided at 4 Feet Height from FFL.
5. Top of the Bed Head panel for Bed No. 9 and 10 will be 4 Feet from FFL.
6. Staff room at South West corner - Retaining Existing window and Aligning wall with Duty Doctor room.

B. Please find followings Additional points Requested from Doctor's Team:

1. Storage area to be provided for Doctor's lounge, Airlock - store Area and Staff room.
2. Existing Aluminum Door at Main Corridor outside ICU to be Replaced with UPVC Door.
3. Existing floor tile for Main Corridor outside ICU to be replaced with new Floor tile - Demolition of existing floor tile and removal of debris.

Deenadhayalan D

Project coordinator (Trainee)
Infrabees



Progress Photos

2.12 Tracking Sheet

RNAIPL - PICU Infrabees Vendor Team Tracking Sheet - Implementation Partner - Sevalaya											
S.No	Date	Week	Vendor Name	No of manpower allocated	Actual Activity planned	Actual Activity completed	Remarks for variance	Picture in Google drive	Hospital Side any points	Status update by Sevalaya team	Corporate Team Comments
1	28th July 2022	Week 0	Infrabees	Breaker team - 3	Demolition of Floor	Floor Demolition Work	—	Updated			
2	29th July 2022	Week 0	Infrabees	Breaker team - 3	Demolition of Floor	Floor Demolition Work	—	Updated			
3	30th July 2022	Week 0	Infrabees				SATURDAY				
4	31st July 2022	Week 0	Infrabees				SUNDAY				
5	1st Aug 2022	Week 1	Infrabees	Breaker team - 3	Demolition of wall Removal of grill Removal of Ro plant Equipments Delivery of sand, Cement, Brick ,Aggregate 20mm	Floor Demolition Work Debris removal Removal of grill Removal of Ro plant Equipments Removal of slab	Delivery of Materails Rescheduled after the completion of demolition work	Updated			
6	2nd Aug 2022	Week 1	Infrabees	Breaker team - 3	Kadapa Slab removal as per the doctor request, Demolition of floor tile in RO Room area, Removal of slab in RO Room, Entire Debris Removal, Window Removal	Removal of Ro plant Equipments Wall Demolition work Floor Demolition Work Window removal Kadapa slab removal Debris Removal	—	Updated			
7	3rd Aug 2022	Week 1	Infrabees	Breaker team - 3	Floor Marking, Stage - 1 Block Work Started after the approval, Ordering of DX Units 8.5 tr - 2 Nos, Sample Approval.	Wall demolition Work Slab removal Floor Demolition Grill removal	Block Work Delayed Due to the Increase of demolition quantity in the floor area (Poor PCC work in the existing floor lead to increasing of demolition quantity)	Updated			
8	4th Aug 2022	Week 1	Infrabees	Debris removal labour- 6	Construction of Stage -2 Block work	Floor marking Debris Removal Delivery of sand Delivery of Cement Delivery of Brick Delivery of Aggregate 20mm	Block Work Delayed Due to the Increase of demolition quantity in the floor area (Poor PCC work in the existing floor lead to increasing of demolition quantity)	Updated			
9	5th Aug 2022	Week 1	Infrabees	Male helper - 2 Breaker(grill) - 2 Breaker team(floor) - 2 Debris Team - 6	Laying PCC in North area	Floor and wall Demolition in Ro plant area Debris Removal Removal of grill	PCC Rescheduled after the demolition work	Updated			
10	6th Aug 2022	Week 1	Infrabees	Breaking labour - 2	Laying PCC in South area	Floor and wall Demolition in Ro plant area & Toilet area	PCC Rescheduled after the demolition work	Updated			
11	7th Aug 2022	Week 1	Infrabees				SUNDAY				
12	8th Aug 2022	Week 2	Infrabees	Male helper -3 Mason -1	Surface cleaning and removal of Debris, Laying PCC in north area	Removal of Debris Block Work initiated	PCC Rescheduled after the demolition work & Block Work	Updated			
13	9th Aug 2022	Week 2	Infrabees	Male helper -6 Mason -3	Laying PCC in South area	Removal of Debris Block Work	PCC Rescheduled after the demolition work & Block Work	Updated			
14	10th Aug 2022	Week 2	Infrabees	PCC concrete work labours - 8	Laying PCC in Remaing Area	PCC work in the PICU area	—	Updated			
15	11th Aug 2022	Week 2	Infrabees	shifting labour -4 mason-1 male helper-1 breaker -1 pcc concrete :labour -4	Block work construction Delivery of cables ,Delivery of conduits	Shifting of materials Block work Removal of window frame PCC Work	Delivery of Cables, Delivery of conduits Rescheduled after the PCC Work	Updated			
16	12th Aug 2022	Week 2	Infrabees	Pcc -5 Mason-2 Male helper-4	Block work construction Electrical conduit work	Block work PCC work	Conduit Work Rescheduled after the PCC Completion	Updated			

17	13th Aug 2022	Week 2	Infrabees	PCC Labour-3 Male Helper-5	Block work construction Electrical conduit work	Block work PCC work	Conduit Work Rescheduled after the PCC Completion	Updated			
18	14th Aug 2022	Week 2	Infrabees				SUNDAY				
19	15th Aug 2022	Week 3	Infrabees		Block work construction Delivery of cables Delivery of conduits Delivery of cable tray		INDEPENDENCE DAY				
20	16th Aug 2022	Week 3	Infrabees	Mason-3 Helper-5	Block work construction Electrical conduit work	Block Work in remaining areas	Conduit Work Rescheduled after the Block work Completion	Updated			
21	17th Aug 2022	Week 3	Infrabees	Mason-3 Helper-4	Block work construction Electrical conduit work	Delivery of HVAC Duct Material Removing of old cable and AC Switch Sockets Block work in remaining areas	Conduit Work Rescheduled after the Block work Completion	Updated			
22	18th Aug 2022	Week 3	Infrabees	Mason-2 Male Helper-3	Block work construction Electrical conduit work Supporting works for duct	Plumbing Marking Block work Plastering	Conduit Work Rescheduled after the Block work Completion	Updated			
23	19th Aug 2022	Week 3	Infrabees	Mason-3, Male helper-4 Electrician -3	Block work construction Electrical conduit work Supporting works for duct	Toilet wall plastering work completed Staff room wall plastering work completed Duty doctor room door opening one side plastering completed Electrical : Old casing, pipes are removed Marking switch socket area and cut out done Fire detector cables laid at bed area	Duct Work Rescheduled after the Block work Completion	Updated			
24	20th Aug 2022	Week 3	Infrabees	Helper-4	Block work construction Electrical conduit work Supporting works for duct	Shifting of materials PCC work at utility room ,and doctors room	Duct Work Rescheduled after the Block work Completion	Updated			
25	21st Aug 2022	Week 3	Infrabees				SUNDAY				
26	22nd Aug 2022	Week 4	Infrabees	Nil- Civil Workers	Block work construction Electrical conduit work Supporting works for duct	Delivery of Data cable Delivery of pipe	Civil labours didn't came to site due to personal issues	Updated			
27	23rd Aug 2022	Week 4	Infrabees	Mason - 2 Male helper -3 Labour for data work -2 Plumber - 2	Block work construction Electrical conduit work Supporting works for duct Ceiling framing work	Block work Plastering work Data cable work started Plumbing work	Duct Work Rescheduled after the Block work Completion	Updated			
28	24th Aug 2022	Week 4	Infrabees	Mason - 2 Male helper -3 Electrical -3 Data work - 3	Flooring Electrical conduit work Supporting works for duct Ceiling framing work	Block work Plastering work Data cable work Conduting work	Flooring will start after finishing the above ceiling work	Updated			
29	25th Aug 2022	Week 4	Infrabees	Mason - 2 Male helper -3 Electrical -3 Data work - 2	Flooring Electrical conduit work Duct installation Ceiling framing work	Block work Plastering work Data cable work Conduting work	Flooring will start after finishing the above ceiling work	Updated			
30	26th Aug 2022	Week 4	Infrabees	Electrician -3 labours Plumbing -2 labours Data and voice -2 labours	Flooring Electrical conduit work Duct installation Ceiling framing work	Data cable work Conduting work Ceiling framing work	Flooring will start after finishing the above ceiling work	Updated			

31	27th Aug 2022	Week 4	Infrabees	Electrician -3 labours Plumbing -1 labours Data and voice -2 labours Carpenter - 3	Flooring Electrical conduit work Duct installation Ceiling framing work Cable laying			Updated			
32	28th Aug 2022	Week 4	Infrabees				SUNDAY				
33	29nd Aug 2022	Week 5	Infrabees	Electrician -3 labours Partation work - 3 labours Data and voice - 1	Cable laying works Ceiling framing works Data cabling works Plumbing works	Delivery of Data cable Delivery of pipe		Updated			
34	30th Aug 2022	Week 5	Infrabees	Carpenter - 3 labours	Cable laying works Ceiling framing works Plumbing works	Block work Plastering work Data cable work started Plumbing work		Updated			
35	31st Aug 2022	Week 5	Infrabees	Nil	Block work construction Electrical conduit work Data cabling work	Nil	GANESH CHATURTHI HOLIDAY	Nil			
36	01st Sep 2022	Week 5	Infrabees	Mason - 1 Male helper -3	Cable laying works Ceiling framing works Data cabling works Plumbing works	PCC at Doctore's Conference room	Data and Voice work Rescheduled after PCC work	Updated			
37	02nd Sep 2022	Week 5	Infrabees	Mason - 2 Male helper -3	Cable laying works Duct Instalation Data cabling works Plumbing works	PCC flooring and Electrical box plastering work	Data and Voice work Rescheduled after PCC work	Updated			
38	03rd Sep 2022	Week 5	Infrabees	Mason - 2 Male helper -3	Cable laying works Duct Instalation Data cabling works Plumbing works	Wall and Door opening plastering work	Data and Voice work Rescheduled after plastering work	Updated			
	04th Sep 2022	Week 5	Infrabees				SUNDAY				
39	05th Sep 2022	Week 6	Infrabees	Data and Voice - 2 labours	HVAC and Tile sample Cable laying works Ceiling framing works Data cabling works Plumbing works	Data Conduit laying work		Updated			
40	6th Sep 2022	Week 6	Infrabees	Data and Voice - 2 labours	HVAC and Tile sample approval Ceiling framing works Plumbing works	Data and Voice cable laying		Updated			
41	7th Sep 2022	Week 6	Infrabees	Data and Voice - 1 labour Male helper - 1	HVAC approval Electrical conduit work Data cabling work	Data and Voice conduit laying and M.sand shifting	HVAC and BOQ line item meetng with RNAIPL	Updated			
42	8th Sep 2022	Week 6	Infrabees	Male helper - 2 labours	Cable laying works Ceiling framing works Data cabling works Plumbing works	M.sand shifting	Site meetng with RNAIPL	Updated			
43	9th Sep 2022	Week 6	Infrabees	Mason - 2 Male heler - 2 Data and voice -2	Cable laying works Duct Instalation Data cabling works Plumbing works	Wall plastering and Fire detector cable laying	Data laying and plumbing works completed	Updated			
44	10th Sep 2022	Week 6	Infrabees	Mason - 2 labours Male heler - labours	Cable laying works Duct Instalation Data cabling works Plumbing works	Ceiling and Main door plastering work	After HVAC approval Duct installation work starts	Updated			
	11th Sep 2022	Week 6	Infrabees				SUNDAY				
45	12th Sep 2022	Week 7	Infrabees		HVAC meeting UPVC windows will be supplied to site		UPVC windows has been supplied to site as per BOQ. Work delayed due to discussion between Toughened or plain glass.	Updated			
46	13th Sep 2022	Week 7	Infrabees	Mason - 1 Male helper -1	HVAC and Tile sample approval	Ceiling plastering at toilet area.		Updated			

47	14th Sep 2022	Week 7	Infrabees	Electrician - 3 Male - 1 helper -1	UPVC windows instalation	Electrical conduit laying work		Updated			
48	15th Sep 2022	Week 7	Infrabees	Electrician - 2	upvc windows instalation Electrical conduit laying	Electrical conduit laying		Updated			
49	16th Sep 2022	Week 7	Infrabees	Electrician - 2	upvc windows instalation Electrical conduit laying	Electrical conduit laying	Awaiting of HVAC - AHU location and sample approval	Updated			
50	17th Sep 2022	Week 7	Infrabees	Electrician - 4 nos.	Electrical conduit laying	Electrical conduit laying	Awaiting of HVAC - AHU location and sample approval	Updated			
	18th Sep 2022	Week 7	Infrabees				SUNDAY				
51	19th Sep 2022	Week 8	Infrabees	NIL	NIL	NIL	Sample shown at site. Awaited for Mail approval.	NIL			
52	20th Sep 2022	Week 8	Infrabees	Waterproofing -1	HVAC and Tile sample approval	Floor leveling for water proofing		Updated			
53	21st Sep 2022	Week 8	Infrabees	Waterproofing -2 Mason - 1 Male helper -1.	UPVC windows instalation Electrical wiring Tile laying	2 coats of Waterproofing for toilet area work completed	Upvc windows - glass changed to toughened glass.	Updated			
54	22nd Sep 2022	Week 8	Infrabees	Waterproofing -2	upvc windows instalation Electrical conduit laying	Waterproofing Leakage checking work	Upvc windows - glass changed to toughened glass.	Updated			
55	23rd Sep 2022	Week 8	Infrabees	NIL	upvc windows instalation Electrical wiring work Tile laying work	Waterproofing Leakage checking work	WPC doors , 2' X2' Floor tile sample, Toilet tile, Main door sample supplied to the site	Updated			
56	24th Sep 2022	Week 8	Infrabees	Carpenter - 2 Nos	Tile laying work Water proofing work	WPC door fixing work		Updated			
	25th Sep 2022	Week 8	Infrabees				SUNDAY				
57	26th Sep 2022	Week 9	Infrabees	Waterproofing -2 nos. Carpenter - 2 nos.	HVAC and Tile sample approval	Waterproofing leakage checking and WPC door fixing.	Vinly floor sample submitted for approval	Updated			
58	27th Sep 2022	Week 9	Infrabees	NIL	HVAC and Tile sample approval	NIL	All samples approved	Updated			
59	28th Sep 2022	Week 9	Infrabees	Electrician - 4 nos.	UPVC windows instalation Electrical wiring Tile laying	Electrical Wiring for PICU		Updated			
60	29th Sep 2022	Week 9	Infrabees	Electrician - 2 nos.	upvc windows instalation Electrical conduit laying	Electrical Wiring for light points		Updated			
61	30th Sep 2022	Week 9	Infrabees	NIL	upvc windows instalation Electrical wiring work Tile laying work	NIL	Floor and wall tile delivered to the site	Updated			
62	01st Oct 2022	Week 9	Infrabees	NIL	Tile laying work Water proofing work	NIL	Curing and M.sand shifting for tile work	Updated			
	2nd Oct 2022	Week 9	Infrabees				SUNDAY				
63	3rd Oct 2022	Week 10	Infrabees	Tile Laying - 4 nos. Male helper- 2 nos.	Toilet floor tile laying Electrical wiring work	Toilet floor tile laying		Updated			
64	4th Oct 2022	Week 10	Infrabees	Tile Laying - 4 nos. Male helper- 2 nos.	Toilet floor and wall tile laying Electrical wiring work	Toilet and Conference room floor tile laying		Updated			
	5th Oct 2022	Week 10	Infrabees				POOJA HOLLIDAY				
65	6th Oct 2022	Week 10	Infrabees	Tile Laying - 4 nos. Male helper- 1 no.	Tile laying work Electrical wiring work	Toilet and Conference room floor tile laying		Updated			
66	7th Oct 2022	Week 10	Infrabees	Tile Laying - 6 nos. Male helper- 2 nos. Electrician - 3 nos.	Tile laying work Electrical wiring work	Ward area, Toilet and Conference room wall tile laying		Updated			

67	8th Oct 2022	Week 10	Infrabeets	Tile Laying - 4 nos. Electrician - 2 nos.	Tile laying work Electrical wiring work	Tile laying for ward area & Wiring for light points and power socket		Updated			
	9th Oct 2022	Week 10	Infrabeets				SUNDAY				
68	10th Oct 2022	Week 11	Infrabeets	NIL	NIL	NIL	NIL	NIL			
69	11th Oct 2022	Week 11	Infrabeets	Tile Laying - 2 nos.	Tile laying work Electrical wiring work UPVC windows fixing	Tile laying on columns.		Updated			
70	12th Oct 2022	Week 11	Infrabeets	Tile Laying - 4 nos. Mason - 1 no. Male Helper - 1 no.	Tile laying work Electrical wiring work UPVC windows fixing	Tile laying at ward area and storage slab fixing					
71	13th Oct 2022	Week 11	Infrabeets	Mason - 3 nos. Electrician - 2 nos.	Tile laying work Electrical wiring work Storage slab work	Wiring for light points and Storage slab fixing.		Updated			
72	14th Oct 2022	Week 11	Infrabeets	Mason - 1no. Male helper - 2 nos. Ducting labour - 2 nos. Breaking - 1 no.	Tile laying work Electrical wiring work Storage slab work	wall breaking for Duct and storage slab fixing		Updated			
73	15th Oct 2022	Week 11	Infrabeets	Mason - 1no. Male helper - 1 no. Tile labour - 4 nos.	Tile laying work Electrical wiring work Storage slab work	Tile Laying at storage area and Ward		Updated			
	16th Oct 2022	Week 11	Infrabeets				SUNDAY				
74	17th Oct 2022	Week 12	Infrabeets	Mason -1no Male helper - 2nos.	Tile laying work Electrical work Storage slab work	Store room Cupboard work and Material Shifting		Updated			
75	18th Oct 2022	Week 12	Infrabeets	Mason -1no Male helper - 2nos. Ducting labour - 2nos.	Tile laying work Electrical work Storage slab work	Store room Cupboard work and Duct laying		Updated			
70	19th Oct 2022	Week 12	Infrabeets	Tile Laying - 2 nos. Mason - 2 no. Medical Gas - 3 no.	Tile laying work Electrical work HVAC duct work Medical gas Pile laying False ceiling work	Tile laying at consulting room Storage area plastering Demolition for Duct line Medical gas pipe laying.		Updated			
71	20th Oct 2022	Week 12	Infrabeets	Tile Laying - 3 nos. Mason - 1 no. Male helper -1no. Medical Gas - 3 no.	Electrical work HVAC duct work Medical gas Pile laying False ceiling work	Tile laying at entrance area Demolition for Duct line Medical gas pipe laying.		Updated			
72	21st Oct 2022	Week 12	Infrabeets	Duct Laying - 3 nos. Mason - 1 no. Male helper -1no. Medical Gas - 3 no.	HVAC duct work Medical gas Pile laying False ceiling work	Duct Installation Plastering work Medical gas pipe laying.		Updated			
73	22nd Oct 2022	Week 12	Infrabeets	Duct Laying - 3 nos. Mason - 1 no. Male helper -1no. Medical Gas - 3 no.	HVAC duct work Medical gas Pile laying False ceiling work	Duct Installation Plastering work Medical gas pipe laying.		Updated			
	23rd Oct 2022	Week 12	Infrabeets				SUNDAY				

3. OVERVIEW OF THE PROFESSIONAL TRAINING

The total internship experience taught us how to plan and manage a project, how to communicate with clients, and how to keep an eye on the contractor. enhances our knowledge of project execution and project management skills.

They instructed us to keep an eye on the contractor generating the MOM and the meeting agenda's daily progress reports.

Along with teaching me project management techniques, they also introduced me to several healthcare design services.