

PROFESSIONAL TRAINING REPORT

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

by

RAJARAJAN.B



SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE

SATHYABAMA

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

Accredited with Grade "A" by NAAC

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119

DECEMBER 2020

(Annexure I)



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

(Est U/s(3) of UGC Act, 1956) Accredited with Grade "A" by NAAC (A Christian Minority Institution)
JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHEMMENCHERY, CHENNAI – 600119. TAMILNADU.
PHONE: 2450 1443/9941912481 INTERNET: www.sathyabama.ac.in
E-mail: archhod@sathyabama.ac.in



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

PROFESSIONAL TRAINING PORTFOLIO(S84 INT)
DECEMBER 2020

Name of the Student : RAJARAJAN.B

Semester : III

Reg No. : 39840016

Batch : 2019-2021

(Annexure II)



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

VIVA-VOCE EXAMINATION

This is to certify that the professional training(S84 INT) is the work of RAJARAJAN.B (39840016) who had undergone training in DHIVISHA CONSTRUCTIONS and has been monitored by the continuous assessment during **December 2020 to January 2021.**

A handwritten signature in blue ink, appearing to read 'Devyani', is written over the printed name of the Dean and HOD.

DR.DEVYANI GANGOPADHYAY
DEAN AND HOD

Submitted for Viva voice Examination held on 30.01.2021

Internal Examiner

External Examiner



SATHYABAMA

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E-mail: archhod@sathyabama.ac.in



DECLARATION

I RAJARAJAN.B (39840016) hereby declare that the Professional Training Report from 14-12-2020 to 21-01-2021 done by me under the guidance of Mr. T.VIGNESH is submitted in partial fulfillment of the requirements for the completion of practical training session.

DR.DEVYANI GANGOPADHYAY
DEAN AND HOD

DATE :

PLACE :

SIGNATURE OF CANDIDATE

(Annexure III)

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 T.Vignesh** 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.

DHIVISHA CONSTRUCTIONS
No 9, Needamangalm Road,
Kumbakonam

(Annexure IV)

JOINING LETTER

(Annexure VI)



DHIVISHA CONSTRUCTIONS
no 9, Needamangalm road,
Kumbakonam.
M - 9994849332.
E - tvigneshar@gmail.com.

Date:15/12/2020

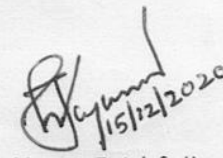
To,
The Head of the Department,
Sathyabama Institute of Science and Technology,
Jeppiar Nager, Rajiv Gandhi Salai,
Chennai – 600 119

Sub: Confirmation letter for practical training at our office for **Mr.Rajarajan.B**
(Reg No:39840016)

Respected Sir,

With respect to the above subject, we would like to induct **Mr. Rajarajan.B**
(RegNo:39840016) M.Arch in Building Management, (**Sathyabama Institute of Science and Technology**) as a Project Management training for a period of 30 days from December 2020 to January 2021 under our project team supervision.

Thanking You,


Yours Faithfully,
T. VIGNESH., M.Arch., AIA.,
M/S, DHIVISHA CONSTRUCTIONS,
NO.9, Needamangalam Road,
Kumbakonam
Ph : 99948 49332

MONTHLY REPORT

(Annexure VII)



SATHYABAMA
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Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.
Phone: 044 - 2450 3150 / 3151 / 3152 / 3154 / 3155 Fax: 044 - 2450 2344
www.sathyabama.ac.in





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DEPARTMENT OF ARCHITECTURE
PROFESSIONAL TRAINING REPORT 2018
(Continuous progress report of the trainee architect/Project Manager for the period of One month in the office to be submitted to HOD by the Trainee in Charge of the Organization)

1. Name of the office / organization : Dhivisha Constructions

2. Address & Contact Number : No 9, Needamangalm Road, Kumbakonam

3. Name of the student : B. Rajarajan

4. Duration : From 14 Dec 2020 To 31 Dec 2020

5. Total No. of days : 14

6. Evaluation of Performance criteria shall be on

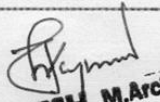
* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month, which will be converted to the allotted 40 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings	✓				
Presentation Techniques	✓				
Model making works		✓			
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients	✓				
Adherence to Time schedule		✓			
Other computer skills	✓				
File and Office Maintenance	✓				
Coordination with other consultants	✓				

Overall Grading* A

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

7. Any other Remarks :

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

T. VIGNESH., M.Arch., AIAA.,
M/S, DHIVISHA CONSTRUCTIONS,
NO.9, Needamangalam Road,
Kumbakonam
Ph : 99948 49332

1. Name of the office / organization : Dhivisha Constructions

2. Address & Contact Number : No 9, Needamangalm Road, Kumbakonam

3. Name of the student : B. Rajarajan

4. Duration : From 01/01/2021 To 21/01/2021

5. Total No. of days : 16

6. Evaluation of Performance criteria shall be on

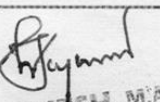
* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month, which will be converted to the allotted 40 marks by the department.

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	✓				
Participation in the office		✓			
Reading of drawings		✓			
Presentation Techniques	✓				
Model making works	✓				
Understanding of construction details	✓				
Drafting Skills (Manual / Computer)		✓			
Site Supervision / Discussion with clients	✓				
Adherence to Time schedule	✓				
Other computer skills		✓			
File and Office Maintenance	✓				
Coordination with other consultants	✓				

Overall Grading* A

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

7. Any other Remarks :

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

T. VIGNESH., M.Arch., AIAA.,
M/S, DHIVISHA CONSTRUCTIONS,
NO.9, Needamangalam Road,
Kumbakonam
Ph : 99948 49332

WORK DIARY

(Annexure –VIII)

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
14-12-2020	Dhivisha Constructions	Site introduction and study	31-12-2020	Dhivisha Constructions	Site Visit
15-12-2020	Dhivisha Constructions	Site Visit	02-01-2020	Dhivisha Constructions	Site Visit
16-12-2020	Dhivisha Constructions	Understanding of architectural site drawings	04-01-2020	Dhivisha Constructions	Site Visit
17-12-2020	Dhivisha Constructions	Understanding of structural site drawings	05-01-2020	Dhivisha Constructions	Site Visit
18-12-2020	Dhivisha Constructions	AAC Block work	06-01-2020	Dhivisha Constructions	Site Visit
19-12-2020	Dhivisha Constructions	Material arrangement	07-01-2020	Dhivisha Constructions	Deshuttering
21-12-2020	Dhivisha Constructions	AAC Block work	08-01-2020	Dhivisha Constructions	Site Visit
22-12-2020	Dhivisha Constructions	Material arrangement	09-01-2020	Dhivisha Constructions	Deshuttering
23-12-2020	Dhivisha Constructions	AAC Block work	11-01-2020	Dhivisha Constructions	Site Visit
24-12-2020	Dhivisha Constructions	AAC Block work	12-01-2020	Dhivisha Constructions	Site Visit
26-12-2020	Dhivisha Constructions	AAC Block work	13-01-2020	Dhivisha Constructions	Site Visit
28-12-2020	Dhivisha Constructions	Material arrangement	19-01-2020	Dhivisha Constructions	Site Visit
29-12-2020	Dhivisha Constructions	Site Visit	20-01-2020	Dhivisha Constructions	Site Visit
30-12-2020	Dhivisha Constructions	Site Visit	21-01-2020	Dhivisha Constructions	Site Visit

Chief Architect Signature:

Office seal:

T. VIGNESH, M.Arch., AIA.,
M/S. DHIVISHA CONSTRUCTIONS,
NO.9, Needamangalam Road,
Kumbakonam
Ph : 99948 49332

Consolidated Certificate (Experience)

(Annexure –IX)

Addressed to

The Head of the Department

Department of Architecture, School of Building & Environment

Sathyabama Institute of Science and Technology,

Chennai-600 119, Tamil Nadu

Sub : Completion Letter for Professional Training.

This is to Certify that Mr.Rajarajan.B (Reg No:39840016) student of 3rd sem has completed the Internship from December 2020 to January 2021 in our firm Dhivisha Constructions under our supervision.


T. VIGNESH, M.Arch., AIA.
B/S, DHIVISHA CONSTRUCTION
No.9, Neechanthalam
Kumbakonam
Ph: 99048 45510

PROFESSIONAL TRAINING (Internship) :

- The primary goal of the Project Management internship is to learn how to planning, organize, execute and finalize projects.
- According to management and communication which help to develop and implement the overall goals for the organization.

ROLES & RESPONSIBILITIES OF THE ORGANISATION IN THE PROJECT:

The company ensures that all of our projects comply with the required building structural guidelines and are subject to several quality checks, beginning with site selection, architects, contractors, suppliers, material sourcing, followed by structural design, in order to comply with the quality guidelines set out in the country's prevailing standards and codes.

- Location is a significant criterion in real estate development.
- Soil and water investigation is a very important thing for pre-qualification analysis.
- For structural condition the structural consultant will research the soil bearing ability to decide on the design of the structure once the soil investigation report is issued by the soil testing agencies.

PROJECT BRIEF :

- The project comprises of spacious 2 BHK apartments and commercial spaces. The project consists of single block with 5 Residential units with 3 commercial spaces. The units area varies from 857- 954 sq ft. And it include with stilt level parking and Lift facility.

PROJECT DESCRIPTION :

- Excellence is an under construction project developed by Divisha Construction in District of Madurai. The project is well fitted with modern facilities, adequate stilt parking in the house and has excellent connections to both public and private transport services. 14,004 sq.ft is the total built-up area. For Typical floor area and commercial spaces. It is also close to the town nearby.

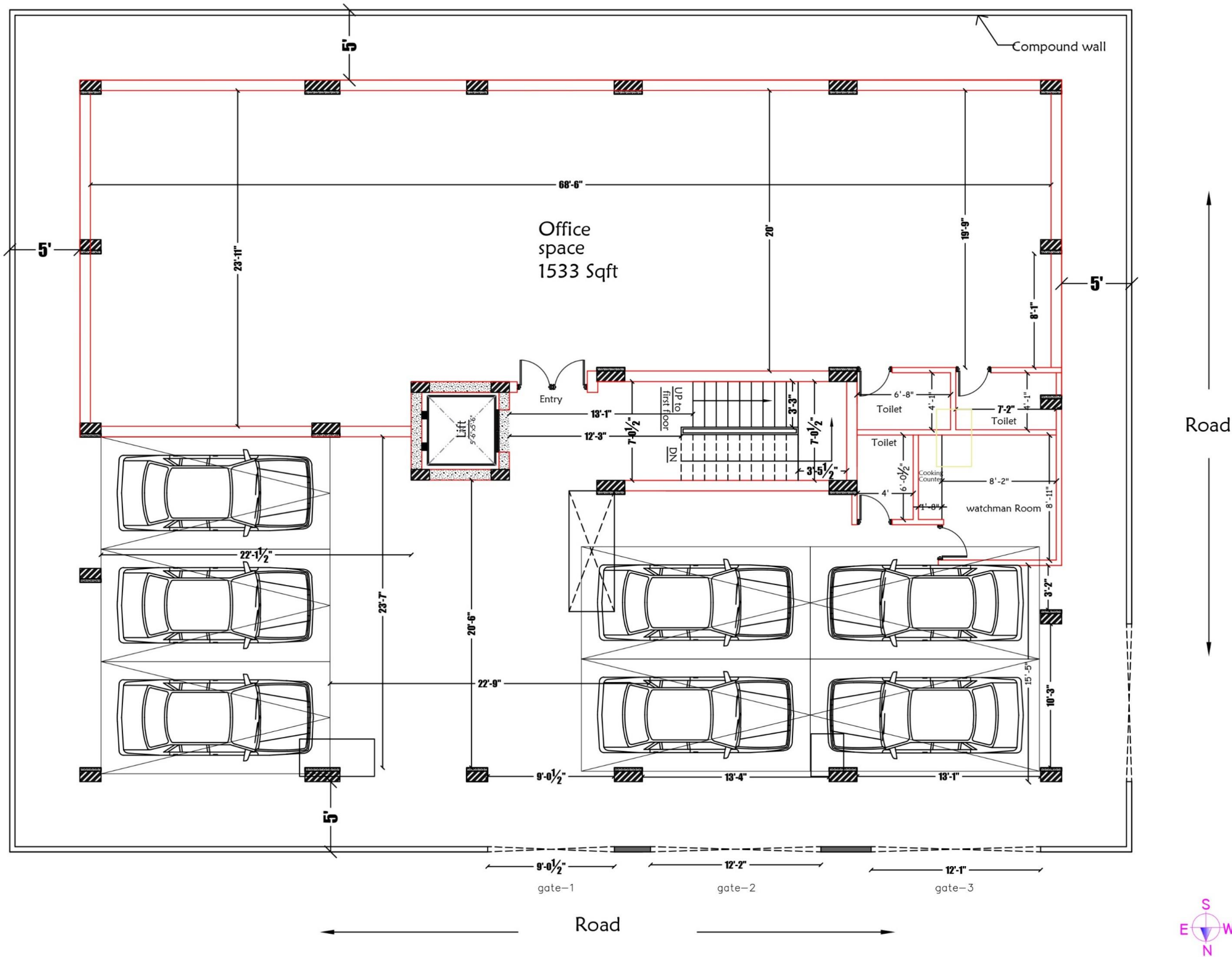
Scope of work:

- Study on floor plans before entering the site
- Observation of the quality control conducted for the completed works
- Observation of productivity of the Labor
- Observation of the on-site facilities used

PROJECT DETAILS:

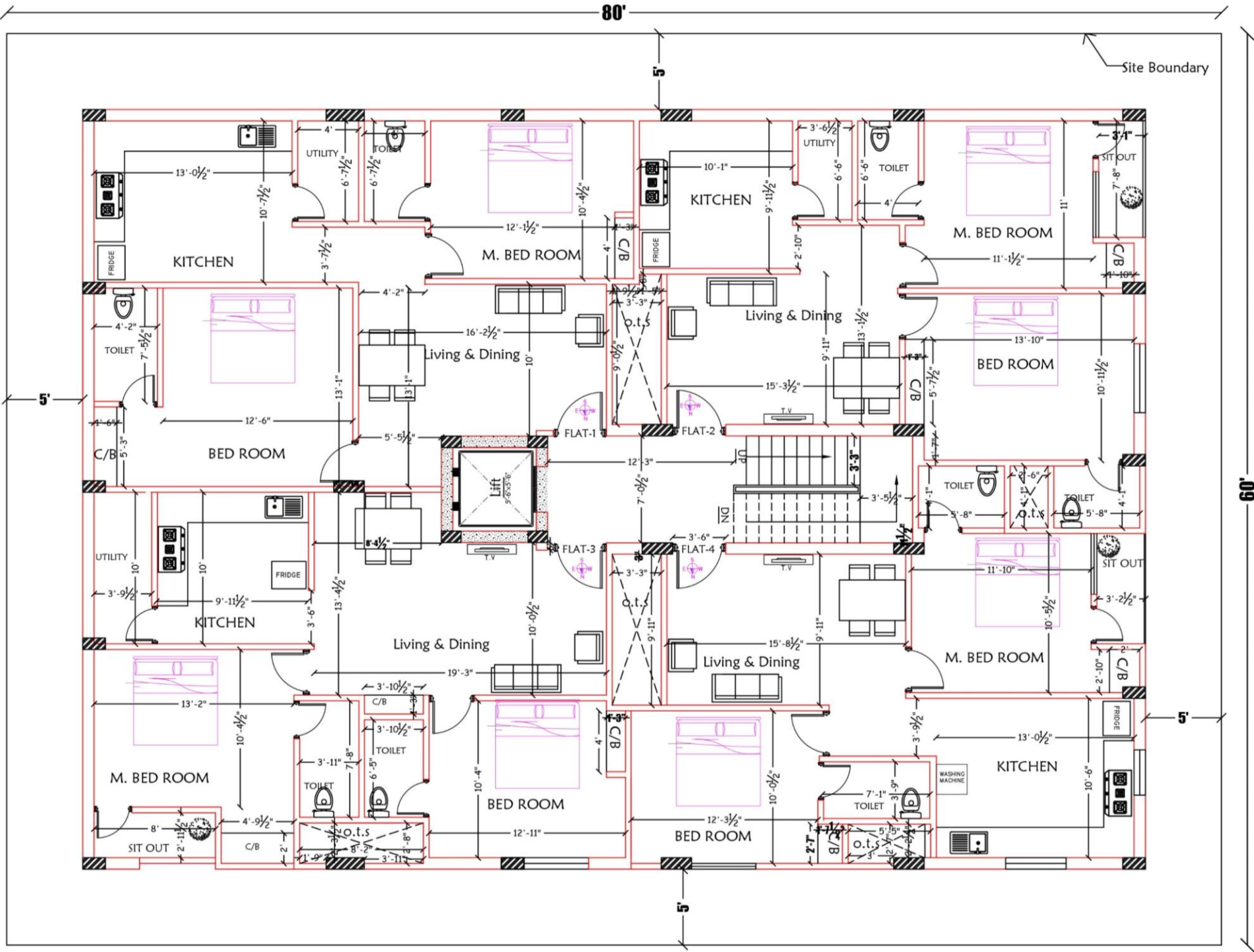
- **LOCATION** - Madurai
- **CLIENT** - Dhivisha Construction
- **ARCHITECT** - Mr.Vignesh
- **STRUCTURAL CONSULTANT** - Mr.Muruganathan Associates
- **PROJECT MANAGEMENT** - Dhivisha Construction
- **CIVIL CONTRACTOR** - AD Builders
- **TPOLOGY** - Residential
- **BUILDUP AREA** – 14,004 sq ft

PLAN LAYOUT



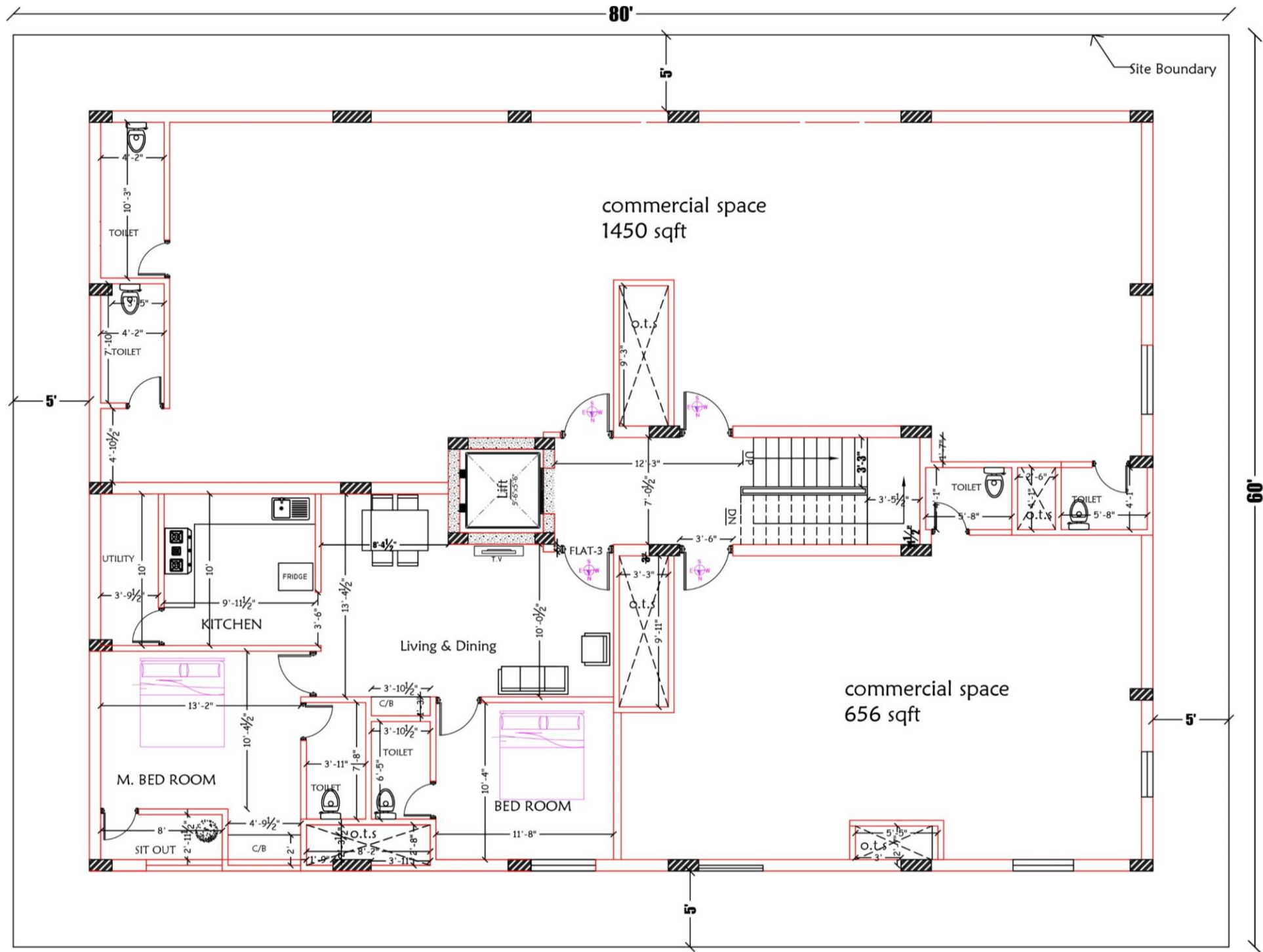
STILT FLOOR PLAN

PLAN LAYOUT



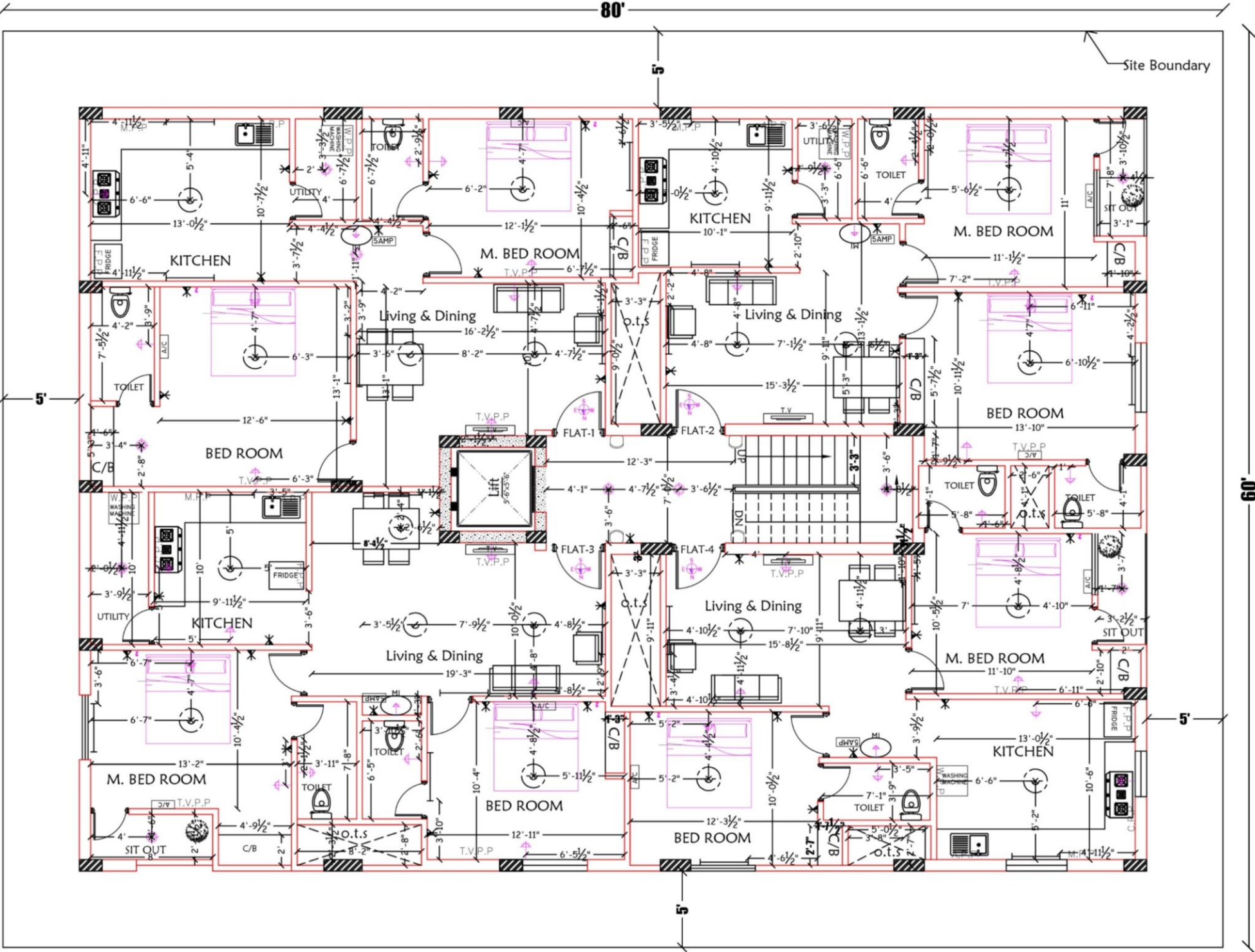
TYPICAL FLOOR PLAN
G+1, G+2

PLAN LAYOUT



G+3 FLOOR PLAN

PLAN LAYOUT



ELECTRICAL LAYOUT

CONSTRUCTION TECHNIQUES:

STRUCTURE

- RCC framed structure.
- walls with Concrete blocks/Light weight blocks and Plastering.

JOINERIES

- Main Door : Equivalent Frame with Ornamental Flush door
- Bedroom Doors: Equivalent Frame with Plain Flush doors with Lock.
- Toilet Doors: Equivalent Frame with Water proof Plastic Coated Flush Doors with Lock.
- Balcony Doors: Equivalent Frame with Water proof Plastic coated Flush Doors.
- Windows: Powder Coated Aluminum Openable Frame and Shutters.
- Ventilators : Powder Coated Aluminum frame with Louvers
- Grills: MS Half grills Grouted onto the walls.

FLOORING

- Living, Kitchen and Dining : 24" X 24" vitrified tiles ,
- Bedrooms : Ceramic Tiles (24" x 24°) ,
- Balcony & Service : Anti-Skid Tiles (12" x 12°) ,
- Toilet Floor : Anti-Skid Tiles (12" x 12°)
- Toilet Dado: Glazed Tiles upto 7'0" height in wet area and 4'0" height in dry area.
- Common Area : Ceramic tiles
- Staircase : Kotah Stone
- Car Park: Granolithic Flooring.

STAIRCASE RAILING

- Railing: MS railing As per Architect Details.

COUNTER TOP

- 20mm Black Granite in Kitchen counters with 2'0" tile above.
- Stainless steel Sink with single Drain board and Single bowl.(Prince or Equivalent)

PLUMBING & SANITARY

- Concealed CPVC pipeline in bathrooms of Aqua series brand or Equivalent. ,
- Concealed UPVC for Hot water lines of ASTRAL or Equivalent.

ELECTRICAL

- Concealed Wiring : Anchor/Finolex or Equivalent
- Switches : MK/Anchor Roma or Equivalent modular switches
- Adequate light, fan and power points.

LIFT

- One Passenger lift

PAINTING

- Internal Ceiling - Cement Paint 2 coats.
- Internal Walls:
 - a. Living, Dining: Altek putty+1 coat of primer+2 coats of OBD
 - b. Bedrooms & Kitchen: Altek putty+1 coat of primer+2 coats of OBD

- c. Stilt floor/Basement- Cement Paint.
- d. External: External Putty+2 coats of Semi acrylic exterior emulsion with one coat of primer.
- Wood work: Enamel Paint. Grills: Zinc chromite non — corrosive primer with Enamel Paint.

EXTERNAL

- Paving blocks around the building
- Compound Wall in outer periphery with Gates

GENERAL

- Anti — termite Treatment.
- PVC Rain water, Sanitary, Waste and water line in open ducts.
- PVC Pipeline of Supreme/ Prince or Equivalent for underground drainage.
- Bathrooms with bore well water / Kitchen with sump water provision.
- Separate Motors for Sump and Bore wells.
- Parryware/ESSESS or Equivalent CP Fixtures
- Parryware/Equivalent white Sanitary Fixtures.

AAC BLOCK WORK

1. DIMENSIONS:

- The size of Aerocon blocks shall be as specified in the item of work. The maximum variation in dimensions shall not be more than +1.5mm in ht. and breadth and +/- 3mm in length.

2. STORAGE:

- The blocks shall be stored in neat piles free from contact with ground, which shall be located to avoid being disturbed or damaged by construction activities. Broken, chipped or otherwise damaged units will be rejected and shall not be used in the work.

3. SAMPLING:

- A sample of 20 blocks shall be taken from every consignment of 5000 blocks of the same size, batch and manufacturer for conducting tests.

4. PREPARATION WORK

- Before single line marking takes place, existing surface any concrete spillage and dead mortar will be properly cleaned
- Level will be checked over all block work area and floor finish level will be marked in structure.
- Hacking will be done at RCC member at minimum 40-60nos per Sqft.
- The blocks need not be wetted before or during laying in the walls. In case the climatic conditions so require, the top and the sides of the blocks may only be slightly moistened so as to prevent absorption of water from the mortar and ensure the development of the required bond with the mortar

5. LAYING AAC MASONRY:

- The laying of block may be started either at the corners first or it may be started from one end and proceed to the other direction.
- The first course of the cellular block masonry shall be laid with great care, making sure that it is properly aligned, leveled and plumbed, as this may assist the mason in laying succeeding courses to obtain a straight and truly vertical wall.
- For the first course and RCC surface face lean cement mortar 1:6 will be use and cement mortar will be use within 1 hour from time of water added to dry mix • If using M sand for cement mortar add Cebex 112 admixture.
- Cebex 112 Mortar Plasticizer may be added either direct to an individual mix or to the gauging water, depending upon site convenience. • Use between 0.100 and 0.200 liters of Cebex 112 per 100kgs of cement.
- Ensure proper spread of mortar in the joints between the blocks. Thick cement mortar uniformly over bed. Mortar joint thickness not exceeding 12 -20mm
- Other than first layer and block contact to rcc member AEROCON SMART FIX (Finest block jointing mortar) will apply 3-4 mm in thickness .The joints shall be struck off flush and compressed tightly.
- The mortar joint shall be stuck off flush with wall surface and when the mortar stiffening ,it shall be compressed tightly
- Where pointing or plastering is not required to be done, the joints can be struck flush and finish at the time of laying, such decision lying solely with the Development Manager. The face of concrete block masonry shall be kept cleaned and all mortar droppings removed promptly
- All block work shall be plumb, square and properly bonded. The joints shall be broken. The thickness of the courses shall be uniform with courses horizontal. All connected work shall be carried out at nearly one level and no portion of the work shall be left more than one course lower than the adjacent work.
- Blocks shall be full height and no cut pieces shall be allowed.
- In 10-12 L of water, add 40Kgs of Aerocon smart fix jointing mortar. Stir mix continuously for 5-10 mins by using electric mixer or by hand to obtain homogeneous lump-free mix

- Allow the result wet mortar to stand for 5mins for the additives to dissolve and use the mix within 20-30 mins. Ensuring 3mm layer and complete filling of joint.
- Maximum Block work constructing should not be exceed 5-6 layers per day.
- Aerocon Blocks are autoclaved i.e. high pressure steam cured of size 60x20x20cms with compressive strength not less than 30 Kg/sqm.
- For 100 mm thickness block work two numbers of 6mm mild steel at every fifth course with P.C.O 1:3:6 75mm thick band for full length of the wall confirming to I.S. 2185
- Block work shall not to be raised up to beam bottom but a gap of 2" to be left between beam soffit & final layer of block work which is to be filled with chips packing in between concrete beam and Internal & External masonry wall of 8" wide and 2" tk in mix 1:2:4 using 6mm chips and Nito bond AR bonding chemical including necessary mixing and curing etc complete.

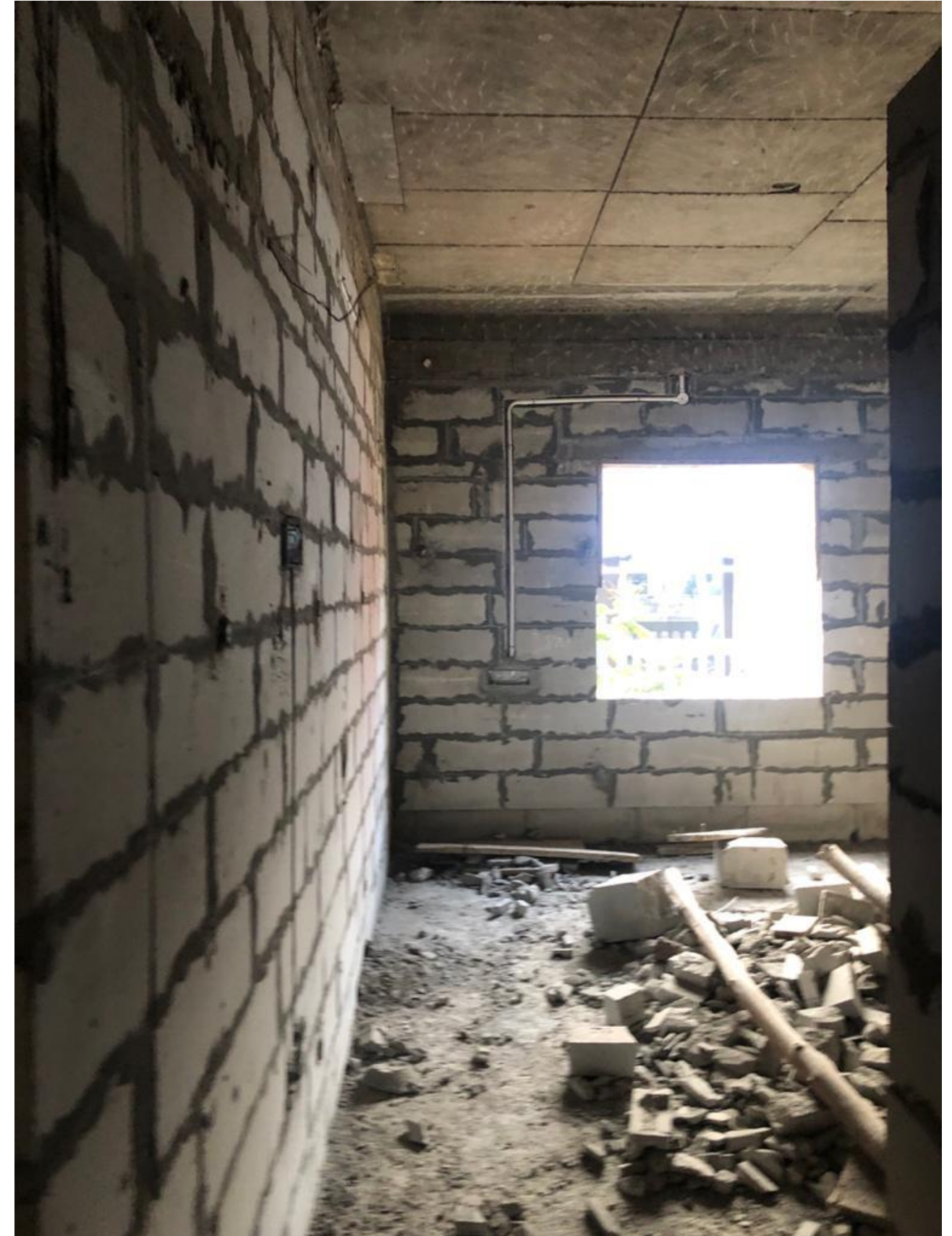
CHASING AND CUTTING

- Blocks shall be cut with a saw.
- For concealed or piping, block wall can be chased using hand or electric router. Depths of vertical chases should be Limited to one-third of the wall thickness and horizontal chases to one-sixth of the wall thickness. Holes in block wall can be made with a standard hand or electric drill.
- Where ever chasing to be done in AAC Blocks, rotary cutters to be used. The chases shall be refilled with leaner mortar and chicken mesh (as per Consultants recommendation) shall be applied on the area.
- If using M sand for refilling works should add Cebex 112 admixture to the mortar.
- Cebex 112 Mortar Plasticizer may be added either direct to an individual mix or to the gauging water, depending upon site convenience.
- Use between 0.100 and 0.200 litres of Cebex 112 per 100kgs of cement.

RELEVANT INDIAN STANDARDS

- I.S. 2185 (part III) -1984: Specification for AAC.
- I.S. 6041-1985 Reaffirmed 1990: Code of practice for construction of AAC Block masonry.
- I.S. 6441- 1 972 (part I to part V): Methods of testing for AAC products.





AAC BLOCK WORK

CONSTRUCTION BENEFITS

- Fast and efficient panel installation reduces labor cost
- Modular components provide for ease of erection
- AERCON AAC puts your project on the fast track

TREMENDOUS BENEFITS FOR EVERYONE

- AAC building systems have been successfully developed and implemented for more than 65 years. They have been utilized in residential and commercial applications.
- The short- and long-term benefits of these systems are realized by owners, developers, designers and contractors alike. The benefits are achieved by the various material properties and methods that are associated with the established AERCON approach to construction.

FOR THE DEVELOPER

- The cost savings realized when using AERCON products, mainly related to the shorter construction time, will be dramatic. The advantages of AERCON include low maintenance costs, good sound insulation and excellent thermal insulation. It easily meets hurricane and energy codes.

FOR THE CONTRACTOR

- Buildings can be constructed quickly and safely using AERCON building systems. The product itself is lightweight; therefore, easily handled.
- AERCON's workability (e.g. anchoring, routing, and drilling characteristics) is well developed and can be easily performed. Typically, wall panel connections are installed with nails. AERCON material also produces less waste. By using the right combinations of AERCON products, productivity will be increased. AERCON will reduce the amount of time spent on job sites due to its ease of handling.

CONCLUSION

- All these factors relate to cost, time and labor savings for the project. These factors epitomize AERCON's commitment to expediting construction, cost effectiveness and an aesthetically appealing building system.

CEMENT PLASTERING

- This method statement for cement plastering work describes the process to be implemented during the entire plastering activity for a safe and quality manner. This also outlines and describes the procedure such as plaster preparations of the surfaces, mixing of cement plaster or mortar, rendering coat of wall, inspection of the plasterwork and all other related activity. This activity should be performed with strict compliance and implementation of safety requirements and project specifications to complete the plastering work both for concrete and blockworks.
- Plastering is the application of a thin layer of mortar/plaster over the surface of walls, ceilings, moldings and architectural decorative elements and even structural members such as columns, beams, panels, etc.
Plastering provides a finishing over the applied surface which enhances its appearance. The other objectives of plastering are to protect the surface from atmospheric exposures, to cover the defective workmanship in block works/masonry, to conceal porous concrete materials and to provide an acceptable surface for painting application.

Personal Protective Equipment (PPE)

- All plasterers and Drylines are required to protect themselves from hazards with specific protective equipment when working on site. This includes odour masks, shoes that are suitable for use on ladders and protective eyewear designed to block airborne particles of plaster.

General Health & Safety Guidance

If you are involved in this on your site, here are some questions you should consider:

- Is the workplace well organized and efficient?
- Is the correct protective equipment available?
- Are the correct health and safety signs/notices being displayed?
- Are site visitors aware of the various health and safety risks?
- Is there a first aid resource?
- Who will report any and all health and safety breaches?

CHECK LIST

RCC WORK BEFORE CONCRETING

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

CHECK LIST

BARBENDING WORKS

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

Checked By :-

Verified By

CHECK LIST

RCC WORKS AFTER CONCRETING

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

Checked By :-

Verified By

CHECK LIST

SHUTTERING WORKS

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

Checked By :-

Verified By

WORKING PATTERN

- Daily progress report of the previous day is submitted before 9 AM.
- Material storage and usage are reported.
- Measurement of the completed work is recorded (joined measurement along with client side engineer)
- Number of labours working on the site is reported.
- Equipment under operation and equipment demand is reported
- Planning for the next weeks work and arrangements and orders for material labour and equipment is placed.
- Most of the jobs are given for sub contracts- sub contractor bills are prepared at site office and is forwarded to the accounts for payement.
- Monthly payement comes from the client and sub-contractors are payed on weekly basis.

LESSONS LEARNED

- Management of a construction company
- Site level management
- Weekly planning and need for weekly planning

This professional training was a great opportunity for me to communicate with different workers / employees, to improve the practical skill, upgrade the theoretical knowledge , improve my leadership skill, team playing skill, etc. I have acquired more knowledge in various tasks in different section.

CONCLUSION

- The training curriculum allows us to understate a project's initial and final stage procedures. The internship sets out the management practices that are involved in constructing a residential apartment.
- Ultimately, it allows one to learn more about the field of practical knowledge.