

portfolio





SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Accredited with “A” grade by NAAC | 12B Status by UGC | Approved by AICTE
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai – 600 119
www.sathyabama.ac.in

SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
PRACTICAL TRAINING PORTFOLIO (SAR4063)
DEC 2022

Name of the Student : SWEETLIN G

Batch: 2019 - 2024

Reg No. : 39210095

Semester: VII



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SCHOOL OF BUILDING AND
ENVIRONMENT DEPARTMENT OF
ARCHITECTURE

VIVA-VOCE EXAMINATION

This is to certify that the practical training SAR 4063 is the work of **SWEETLIN G** who had undergone training in **LARSEN AND TOUBRO CONSTRUCTION** and has been monitored by the continuous assessment during JUNE 2022 to OCTOBER 2022.


Dr. Devyani Gangopadhyay
DEAN

Submitted for Viva voce Examination held on 13.12.2022


Internal Examiner


External Examiner



SATHYABAMA

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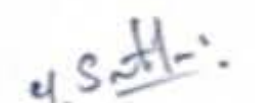
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DECLARATION

I, **SWEETLIN G**, by declaring that the Training Report **JUNE 2022 to OCTOBER 2022** done by me under the guidance of **Ar. NAGALINGAM** is submitted in partial fulfillment of the requirements for the completion of a practical training session.

DATE : 13.12.2022

PLACE : CHENNAI


SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to the Board of Management of SATHYABAMA for their kind encouragement in doing this practical training and for completing it successfully. I am grateful to them.

I convey my thanks to Dr. Devyani Gangopadhyay, Dean, School of Building and Environment, and Ar. Sarath Chandra Kanth, Design Chair, Department of Architecture for having been a constant source of support and encouragement.

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

I also wish to thank Ar.NAGALINGAM, for the experience of interning at their firm.



Larsen & Toubro is an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services. It operates in over 50 countries worldwide. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over eight decades.

L&T Construction is a division of Larsen & Toubro (L&T) a major Indian technology, engineering, construction, manufacturing and financial services conglomerate, with global operations. L&T addresses critical needs in key sectors - Hydrocarbon, Infrastructure, Power, Process Industries and Defence - for customers in over 30 countries around the world. L&T is engaged in core high impact sectors of the economy and our integrated capabilities span the entire spectrum of 'design to deliver'. With over 8 decades of a strong, customer focused approach and a continuous quest for world-class quality, we have unmatched expertise across Technology, Engineering, Construction, Infrastructure Projects and Manufacturing.

Sathyabama Institute of Science and Technology,
Kamaraj Nagar, Semmancheri, Chennai,
Tamil Nadu 600119

ACKNOWLEDGEMENT

I would like to express my deep gratitude to the chief Architect AR.NAGALINGAM for providing me with this opportunity to work as a trainee architect in LARSEN & TOUBRO. His continuous guidance and support has helped me draw a better line than yesterday. Ideas were exchanged and experience of the firm has provided me gain confidence to work in the professional fields. During the period of internship, the major opportunity were to work in big and small projects in a systematic manner. This has helped develop a potential architect and student in me. His regular guidance in architectural, civil and structural fields are praiseworthy. The comfortable circle and calmness in the working table has helped me work more diligently. I would also like to extend my gratitude to our year co-ordinator for her guidance and supervision during the internship period and my teachers for making me capable to grow enough to handle the mistakes and stand with head high.



Name	Sweetlin G
Reg no.	39210095
Batch	2019 - 2014
Dept	Department of Architecture

CONFIRMATION LETTER



Larsen & Toubro Limited,
Construction
Buildings & Factories
P. B. No. 979, Mount Poonamallee Road,
Manapakkam,
Chennai - 600 089, INDIA
Tel : +91-44-2252 6000, 2252 8000
Fax : +91-44-2259 7288
www.lntec.com

B&F IC/EDRC-HR/Training/582-2022

20 June 2022

Head of the Department
Sathyabama Institute of Science & Technology
Kamaraj Nagar, Semmancheri, Chennai - 600119

Dear Sir/Madam,

Sub: Project Training

This has reference to your letter dated **16-Jun-2022** regarding Project Training for your student, **Ms. Sweetlin G (39210095)**. As a special case, we agree to admit her for Project Training from **22-Jun-22 to 30-Sep-22**.

Please advise her to carry 3 Passport size photographs, copy of her College ID card and Adhaar card copy while reporting for the project training.

Please note that:

- She has to undergo the training without any financial commitment to our Company and fully at her own risk and responsibility.
- She must strictly comply with safety & other rules applicable at the project site/Office.
- She will be awarded her Project Training completion certificate on submission of the Project Report.

Thanking You,

Yours faithfully,
For **LARSEN & TOUBRO LIMITED**

SUNEET KUMAR
DGM - HUMAN RESOURCES

Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA
Licence No.: CIN - L99999MH1946PLC004768

L&T Construction - Buildings & Factories is a brand of Larsen & Toubro Limited

JOINING LETTER

From,

Sweetlin G.

5/241, Hebron, Lourdhammal puram

Tuticorin - 1



Date : 22.06.2022

Place : Chennai

To,

THE HEAD - HR,
EDRC - B&F IC,
L&T Construction,
Mount Poonamallee Road,
Manapakkam, Chennai- 600089

Respected Sir,

Sub: Reporting for Internship

With reference to your letter ref No: B&F- IC/EDRC- HR/Training/582-2022, dated 20 June 22,

I hereby report to your company today for project training.

I hereby confirm that I will abide by the rules & regulations of your company.

Thanks & Regards,

e/s/ (Sweetlin)

Sensitivity: LNT Construction Internal Use

MONTHLY REPORT

SATHYABAMA
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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee submitted 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 : L&T Construction

2. Address & Contact Number : L&T Construction, Manapakkam, Chennai

3. Name of the student : Sweetlin G.

4. Duration : From 22.06.22 To 30.09.22

5. Total No. of days : 25

6. Evaluation of Performance criteria shall be on

Note: Faculty grade the student as per his/her overall performance in the office during the assessment month which will be converted to the graded 50 marks by the department.

Description of work	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	8				

(A=5.0, B=4.0, C=3.0, D=2.0, E=1.0)

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DEPARTMENT OF ARCHITECTURE

7. Any other Remarks

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

JUNE - JULY

SATHYABAMA
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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee submitted 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 : L&T CONSTRUCTION

2. Address & Contact Number : MANAPAKKAM, CHENNAI

3. Name of the student : SWEETLIN G.

4. Duration : From 22.06.22 To 31.07.22

5. Total No. of days : 20

6. Evaluation of Performance criteria shall be on

Note: Faculty grade the student as per his/her overall performance in the office during the assessment month which will be converted to the graded 50 marks by the department.

Description of work	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	7				

(A=5.0, B=4.0, C=3.0, D=2.0, E=1.0)

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DEPARTMENT OF ARCHITECTURE

7. Any other Remarks

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

JULY - AUGUST

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DEPARTMENT OF ARCHITECTURE

PROFESSIONAL PRACTICAL TRAINING REPORT 2022

(Continuous progress report of the trainee submitted 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 : L&T CONSTRUCTION

2. Address & Contact Number : MANAPAKKAM, CHENNAI

3. Name of the student : SWEETLIN G.

4. Duration : From 01.08.2022 To 31.08.22

5. Total No. of days : 1

6. Evaluation of Performance criteria shall be on

Note: Faculty grade the student as per his/her overall performance in the office during the assessment month which will be converted to the graded 50 marks by the department.

Description of work	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	9				

(A=5.0, B=4.0, C=3.0, D=2.0, E=1.0)

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DEPARTMENT OF ARCHITECTURE

7. Any other Remarks

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

AUGUST - SEPTEMBER

CONSOLIDATED CERTIFICATE



Larsen & Toubro Limited,
Construction
Buildings & Factories
P. B. No. 979, Mount Poonamallee Road,
Manapakkam,
Chennai - 600 089, INDIA
Tel : +91-44-2252 6000, 2252 8000
Fax : +91-44-2259 7288
www.Lntec.com

LTC-HQ/B&F/EDRC-HR/Training/582-2022

12 December 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Sweetlin G (39210095)** from **Sathyabama Institute Of Science & Technology, Chennai** has undergone his project internship at our Engineering Design & Research Centre (EDRC) - Headquarters from **22 Jun 2022 to 30 Sep 2022**.

We wish her all the best for her future endeavors.

Yours faithfully,

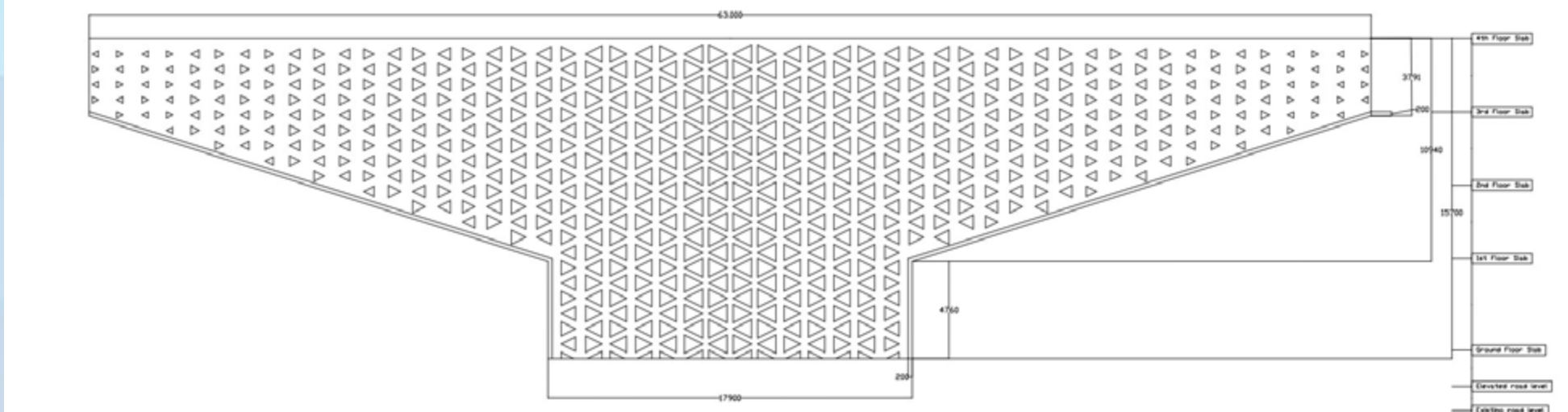
for **LARSEN & TOUBRO LIMITED**

SUNEET KUMAR
DGM - HUMAN RESOURCES

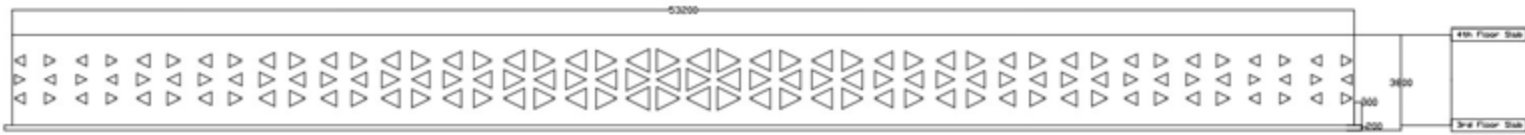
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- 4. DATA CENTRE - KANCHIPURAM
- 5. DATA CENTRE CANTEEN
- 6. AUDITORIUM
- 7. OFFICE BUILDING - KOLKATA
- 8. EDRC - FURNITURE LAYOUT
- 9. NBC ANALYSIS
- 10. SITE VISITS

CHENNAI OFFICE FACADE DESIGN

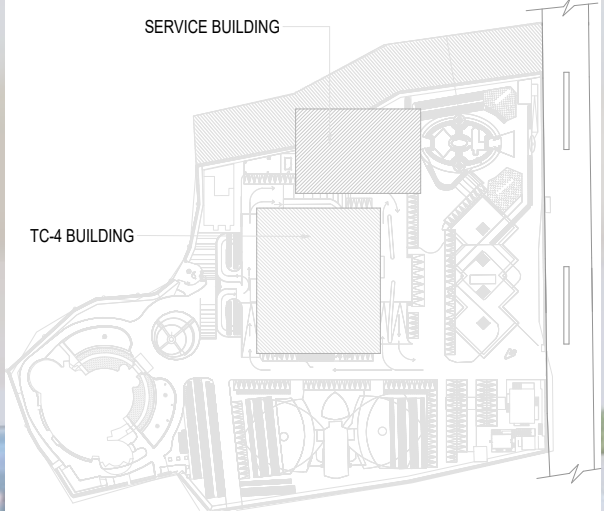


north & south elevation

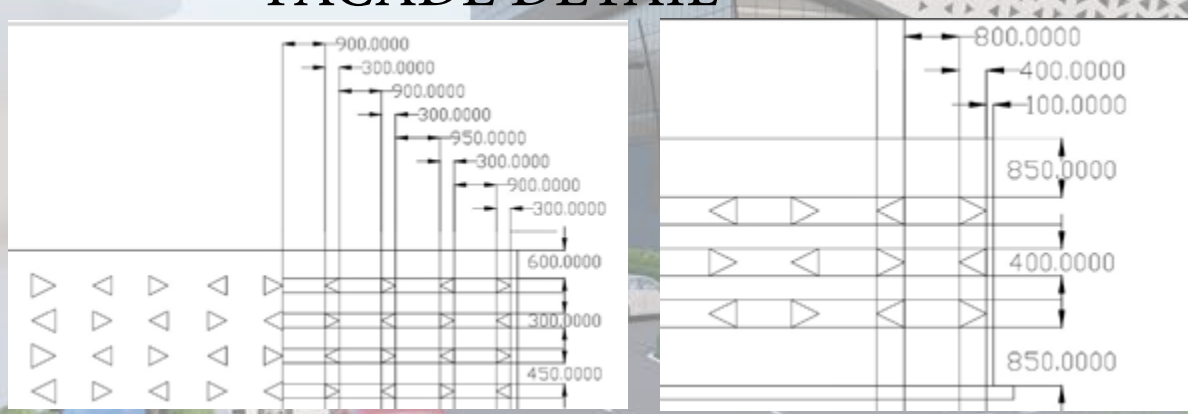


east & west elevation

SITE PLAN



FACADE DETAIL



GRADIATION SPACING

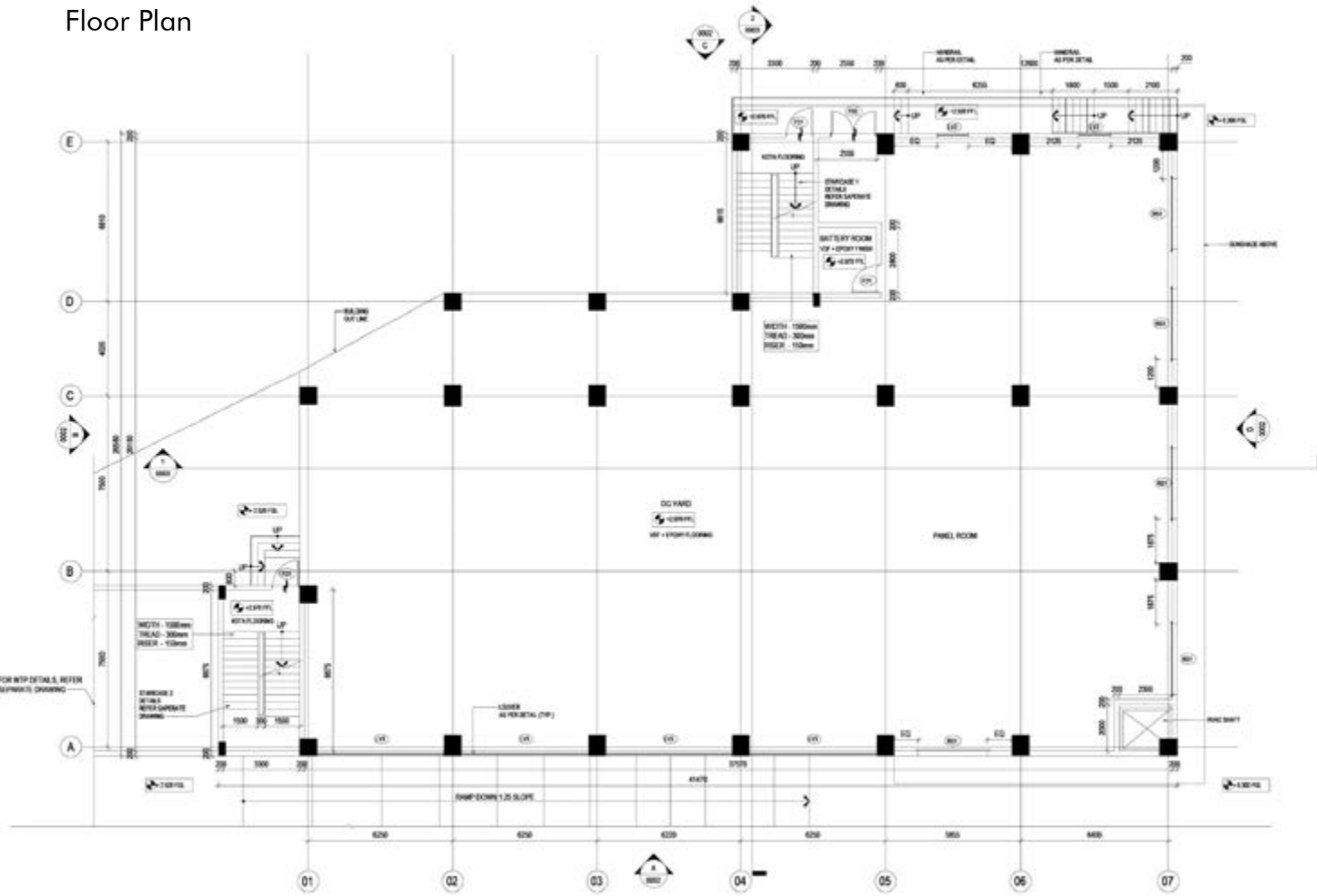


PROJECT TYPE : OFFICE
PROJECT LOCATION : CHENNAI
PROJECT STATUS : UNDER CONSTRUCTION

Substation

A Substation for the upcoming TC-4 building in Chennai
L&T Campus with facade options in which the Hydrations were being
done with several colours.

Floor Plan

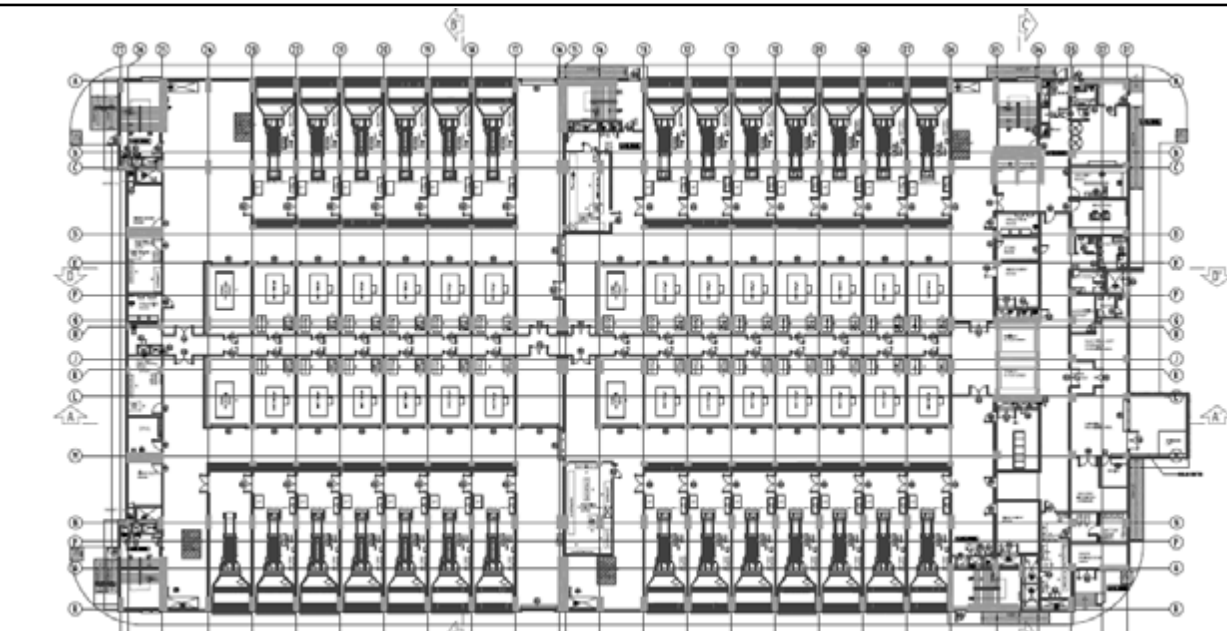


DATA CENTRE - MUMBAI

- The Site is located on Forbes and Company premises on - Unit 15 B, Saki Vihar Road, Sangharsh Nagar, Chandivali, Powai, Mumbai, Maharashtra 400072 India.
- The size of the plot is around 15,722* m² and is located 1.2KM away from existing Mumbai-1 and 400m away from the existing Equinix Mumbai-2 Data Centre facility.
- The plot also consists of a large number of trees which either shall require relocation or removal from the site subject to local permitting/approvals
- It is proposed consisting of 14,440 m² Total White Space
- 20 Nos. of 722 m² IT Halls - Divided in 5 floors
- Ground floor dedicated to accommodate utility (Generators and Transformers)



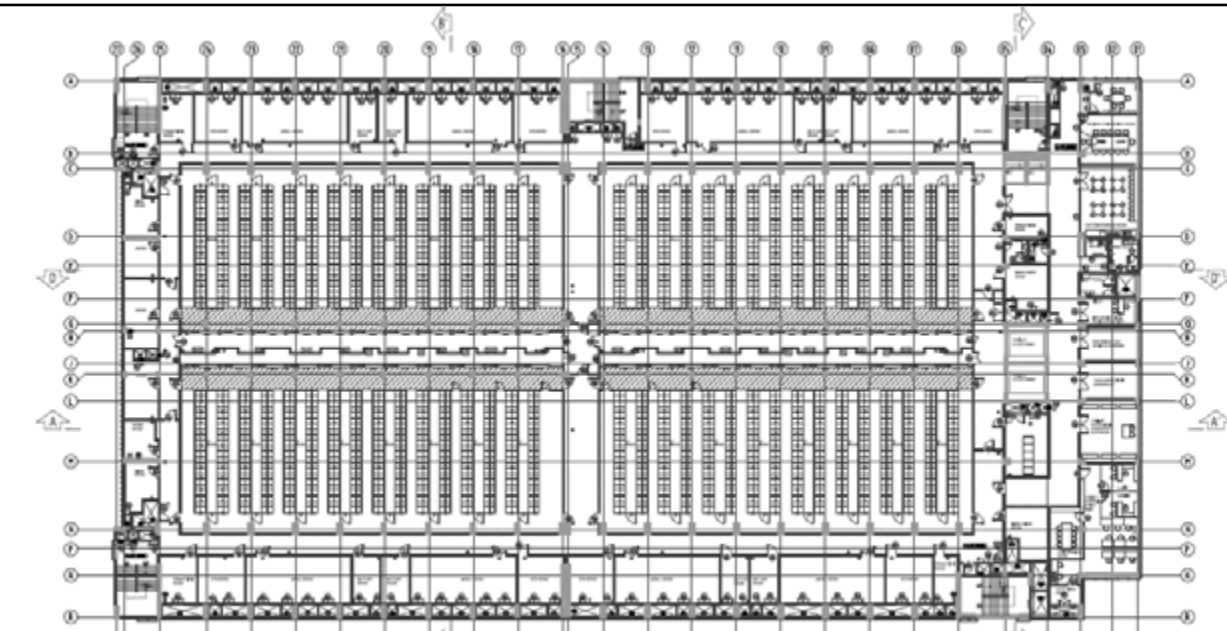
SITE AREA - 15722 SQM (3.98 ACRES)							
DC BUILDING							
SL NO	DESCRIPTION	BUILDING 1 - PHASE 1 & 2		BUILDING 2 - PHASE 3 & 4		TOTAL	
		AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)
1	GROUND FLOOR	3640	39176	2839	30562	6479	69737
2	MEZZANINE FLOOR**	817	8794	551	5931	1368	14725
3	FIRST FLOOR	3578	38514	2827	30430	6405	68944
4	SECOND FLOOR	3578	38514	2827	30430	6405	68944
5	THIRD FLOOR	3578	38514	2827	30430	6405	68944
6	FOURTH FLOOR	3578	38514	2827	30430	6405	68944
7	FIFTH FLOOR	3578	38514	2827	30430	6405	68944
8	TERRACE	399	4295	232	2502	631	6797
	SUB TOTAL	22746	244835	17758	191142	40504	435977
ANCILLARY BUILDINGS							
SL NO	DESCRIPTION	PHASE 1 & 2		PHASE 3 & 4		TOTAL	
		AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)	AREA (SQM)	AREA (SQ FT)
1	SUB STATION	202	2176	0	0	202	2176
2	PHE PUMP ROOM	428	4604	0	0	428	4606
3	HSD PUMP ROOM	31	339	0	0	31	339
4	STP & LOAD BANK	17	185	0	0	17	185
5	SECURITY CABIN 1	56	605	0	0	56	605
6	SECURITY CABIN 2	20	211	0	0	20	211
7	HSD YARD (NOT INCLUDED IN BUA)	364	3919	0	0	364	3920
	SUB TOTAL	755	8122	0	0	755	8122
TOTAL BUILT UP AREA		23501	252957	17758	191142	41258	444100



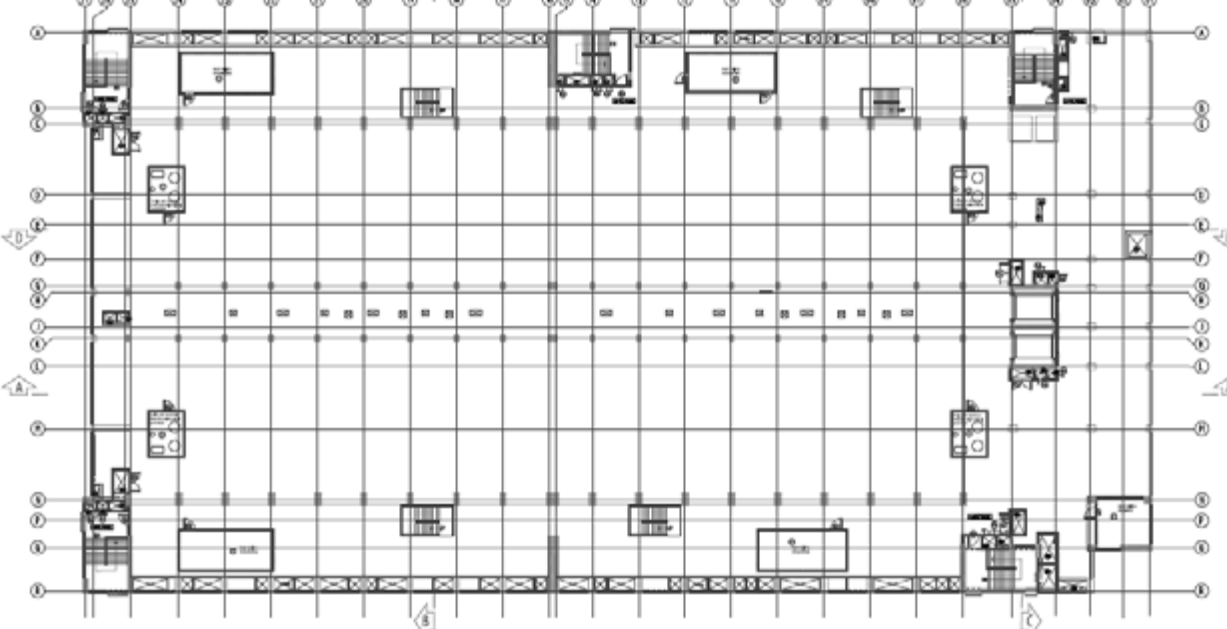
GROUND FLOOR PLAN



TYPICAL FLOOR PLAN



FIRST FLOOR PLAN

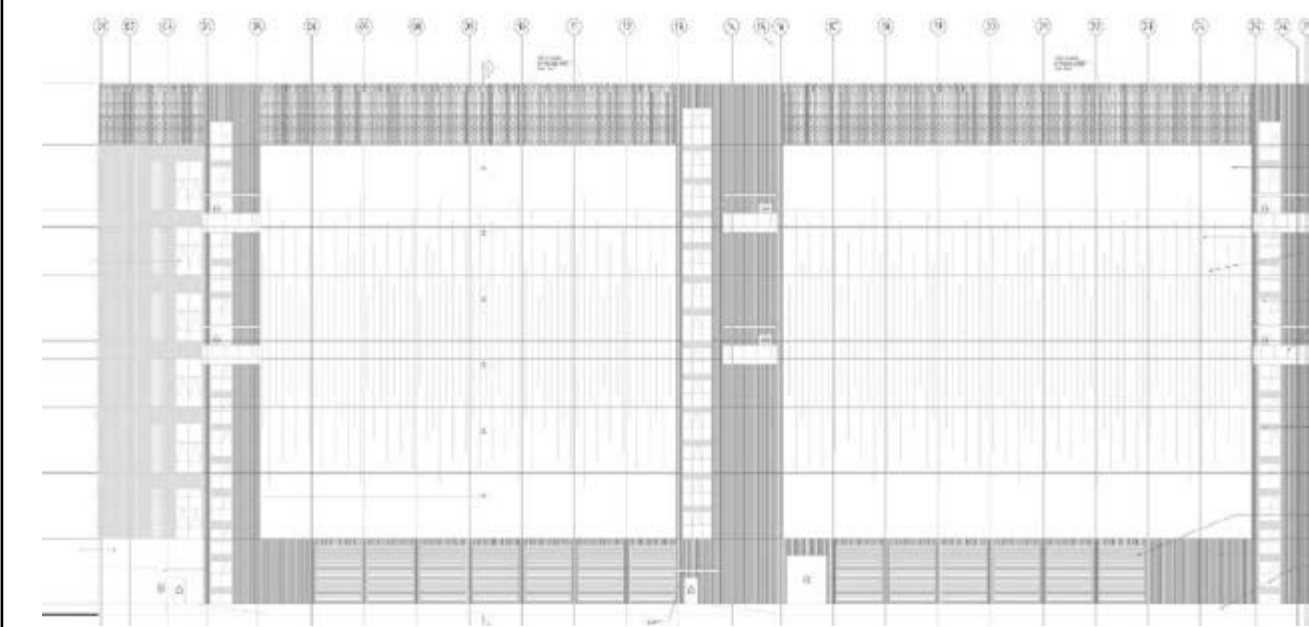
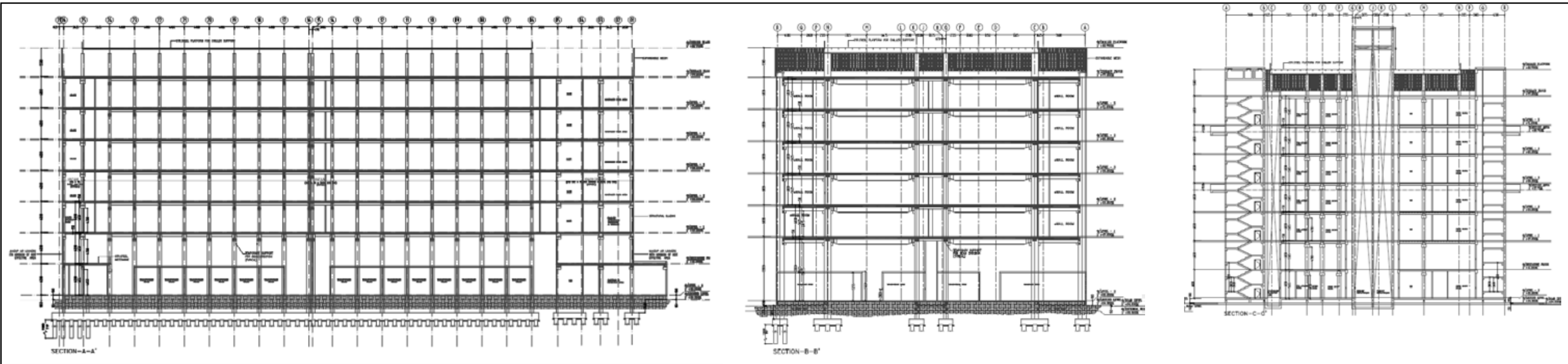


TERRACE FLOOR PLAN

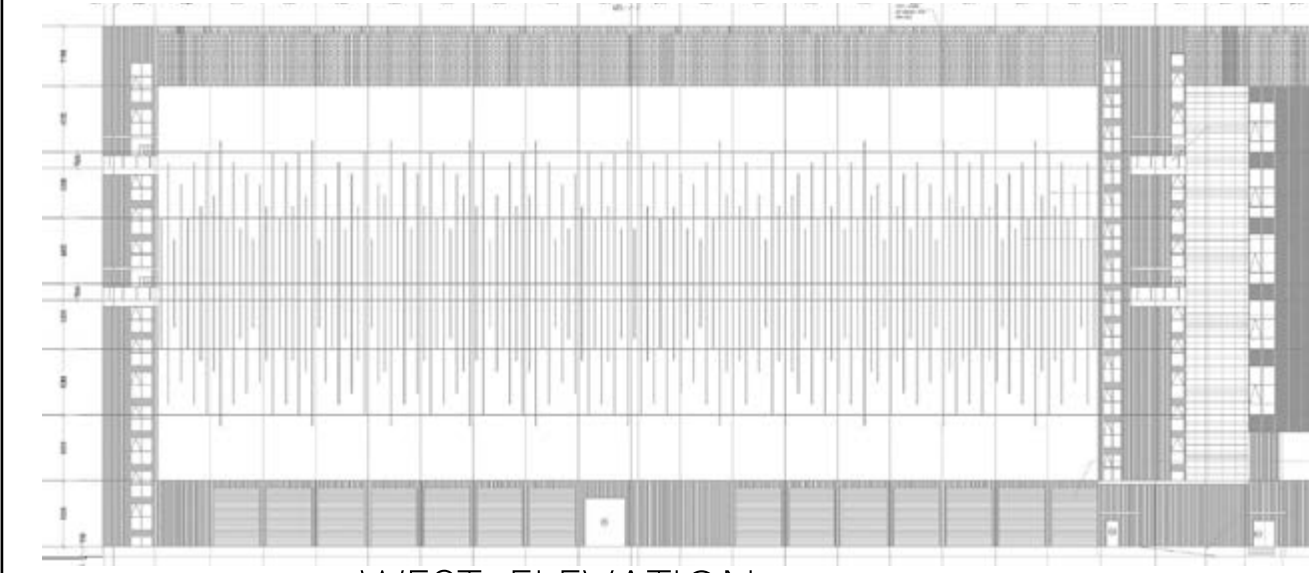
SECURITY CABIN DETAILS

PUMP ROOM -
DETAIL PLAN

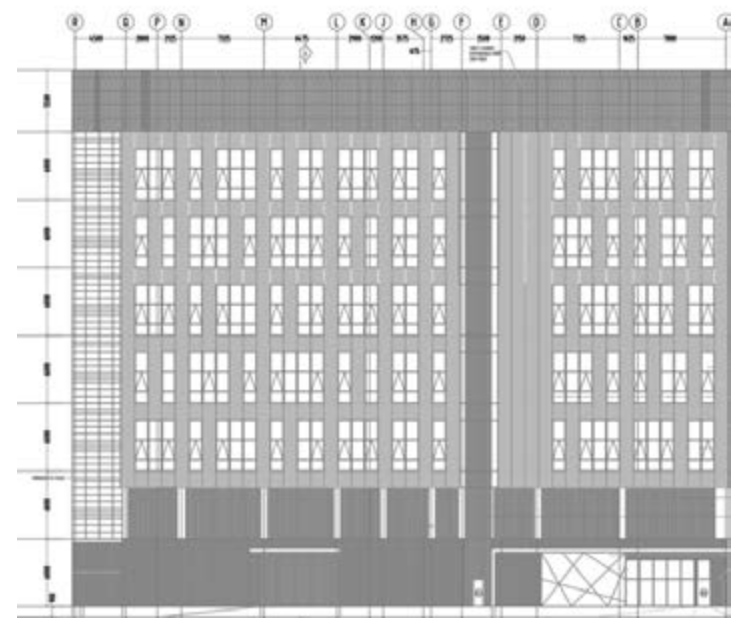
- RAW WATER HARVESTING TANK
VOLUME - 125 CUM
WATER COLUMN Ht-3.6mm
FREEBOARD-1.80m
- DOMESTIC WATER TANK VOLUME - 10 CUM
WATER COLUMN Ht - 3.6mm
FREE BOARD - 0.8mm
- RAW WATER TANK VOLUME - 10 CUM
WATER COLUMN Ht-3.6mm
FREEBOARD-0.8m
- FIRE WATER TANK - 1 VOLUME -175 CUM
WATER COLUMN Ht-4mm
FREEBOARD-0.8m
- FIRE WATER TANK - 2 VOLUME -175 CUM
WATER COLUMN Ht-4mm
FREEBOARD-0.8m
- 200 mm WIDE DRAINAGE TRENCH (SLOPE 1:200)
- FIRE PUMP ROOM HEIGHT 5.8M
+27.700



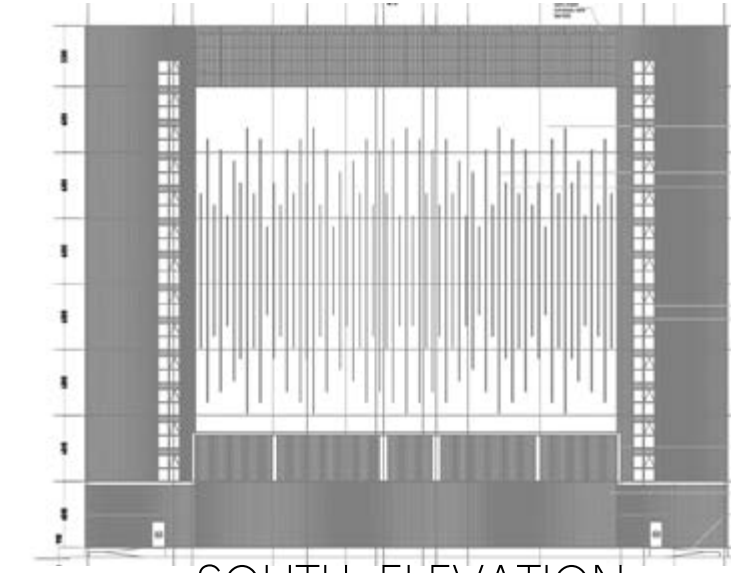
EAST ELEVATION



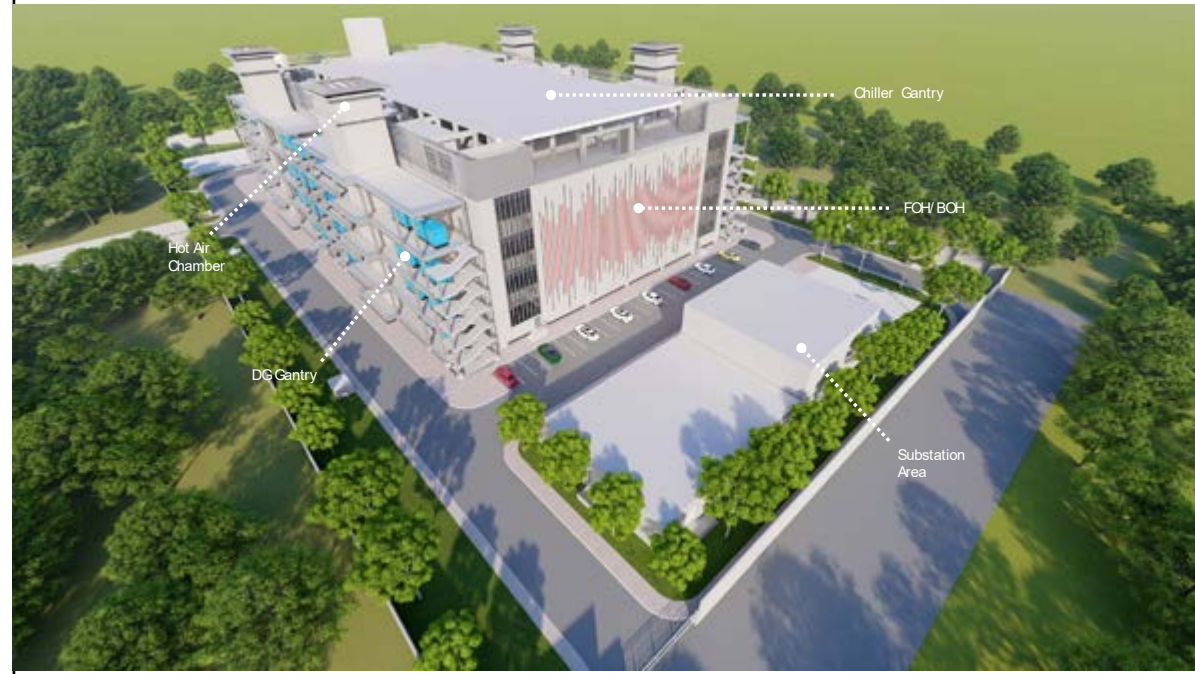
WEST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION

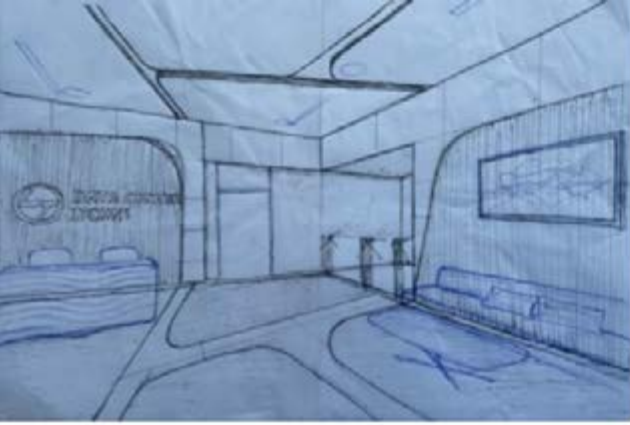


DATA CENTRE - KANCHIPURAM

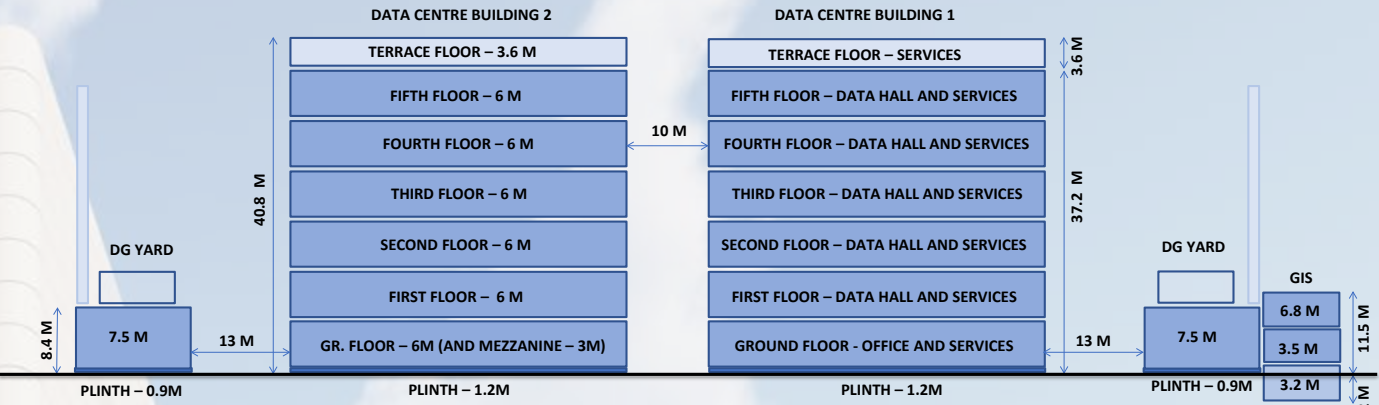
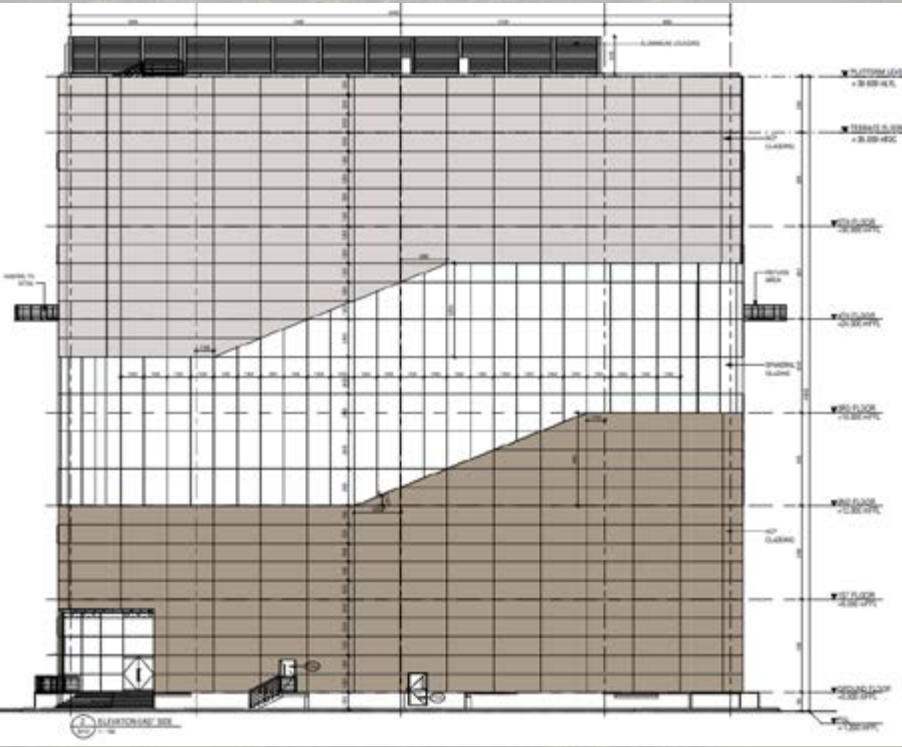
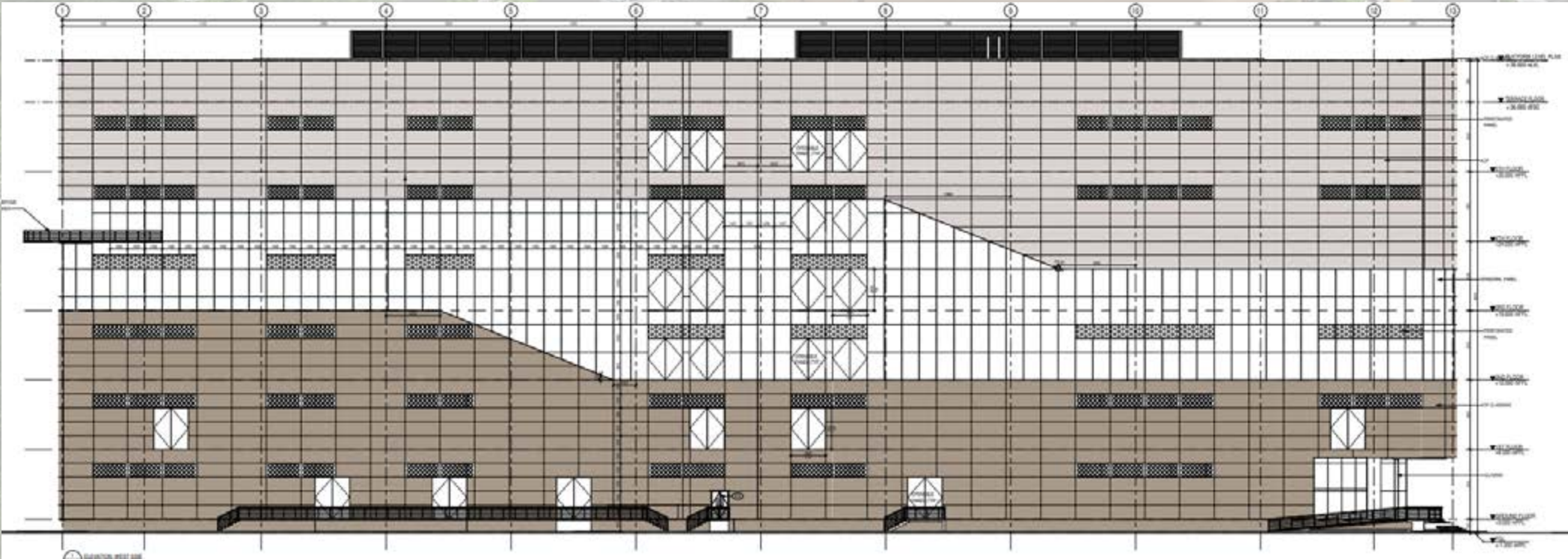
Tamil Nadu is on a growth trajectory, and we are delighted to partner with the Government of Tamil Nadu to propel this growth by building a data center that will further trigger development by attracting investments and generating jobs for the people of Kanchipuram

- Exterior facade
- Reception lobby
- lift lobby
- office space
- toilet
- staircase detail drawing
- canteen

conceptual sketches



SITE AREA - 40516 SQM (10.01 Acres)			
SL NO	DESCRIPTION	AREA (SQM)	AREA (SQ FT)
DC (PHASE 1) - BUILDING 1 - 30 MW (G+5)			
1	Ground Floor	5457	58734
2	Mezzanine Floor	1069	11507
3	First Floor	5454	58702
4	Second Floor	5472	58899
5	Third Floor	5472	58899
6	Fourth Floor	5138	55304
7	Fifth Floor	5472	58899
8	Terrace floor	692	7451
SUB TOTAL		34225	368394
DC (PHASE 2) - BUILDING 2 - 30 MW (G+5)			
1	DC Building	34225	368394
SUB TOTAL		34225	368394
ANCILLARY BUILDINGS			
PHASE 1			
1	DG YARD 1	1960	21084
2	GIS BUILDING	1670	17969
3	SECURITY GUARD BLOCK	128	1377
4	SECURITY GUARD ROOM	3	35
5	HSD YARD PHASE 1 (NOT INCLUDED IN BUA)	721	7758
6	UG PUMP ROOM AND WATER TANKS (NOT INCLUDED IN BUA)	762	8198
7	STP (NOT INCLUDED IN BUA)	220	2368
8	PARKING (NOT INCLUDED IN BUA)	1123	12083
SUB TOTAL - PHASE 1		3761	40466
PHASE 2			
1	DG YARD 2	1960	21084
2	HSD YARD PHASE 2 (NOT INCLUDED IN BUA)	1015	10919
SUB TOTAL - PHASE 2		1960	21084
TOTAL BUILT UP AREA (PHASE 1)		37986	408860
TOTAL BUILT UP AREA (PHASE 2)		36185	389479
TOTAL BUILT UP AREA		74170	798339



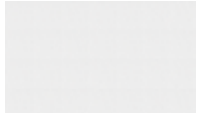
SECTION AA
SCHEMATIC SECTION



KEY PLAN



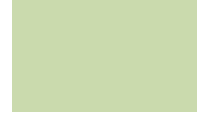

Baffle Ceiling
Dark Brown


Gypsum Board
White


Granite
Beige


Granite
Asian Top south RK marble


Wooden Panel
Dark Brown


Asian Paints
Majestic Mountain 7688

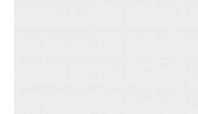

Ceramic Paint
White


Alfa Carpeting
Reuso Recover RS01


Asian Paints
Daisy Bloom L178




Asian Paint Texture
Metallics Palm weave


Asian Paints
Daisy Bloom L178


Kajaria vitrified polis
Terrazo Grey tile


Kajaria vitrified polis
Terrazo Black tile


Baffle Ceiling
Grey

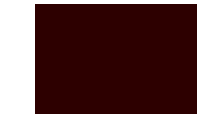

Sancia Brown
Somany ceramic Tile

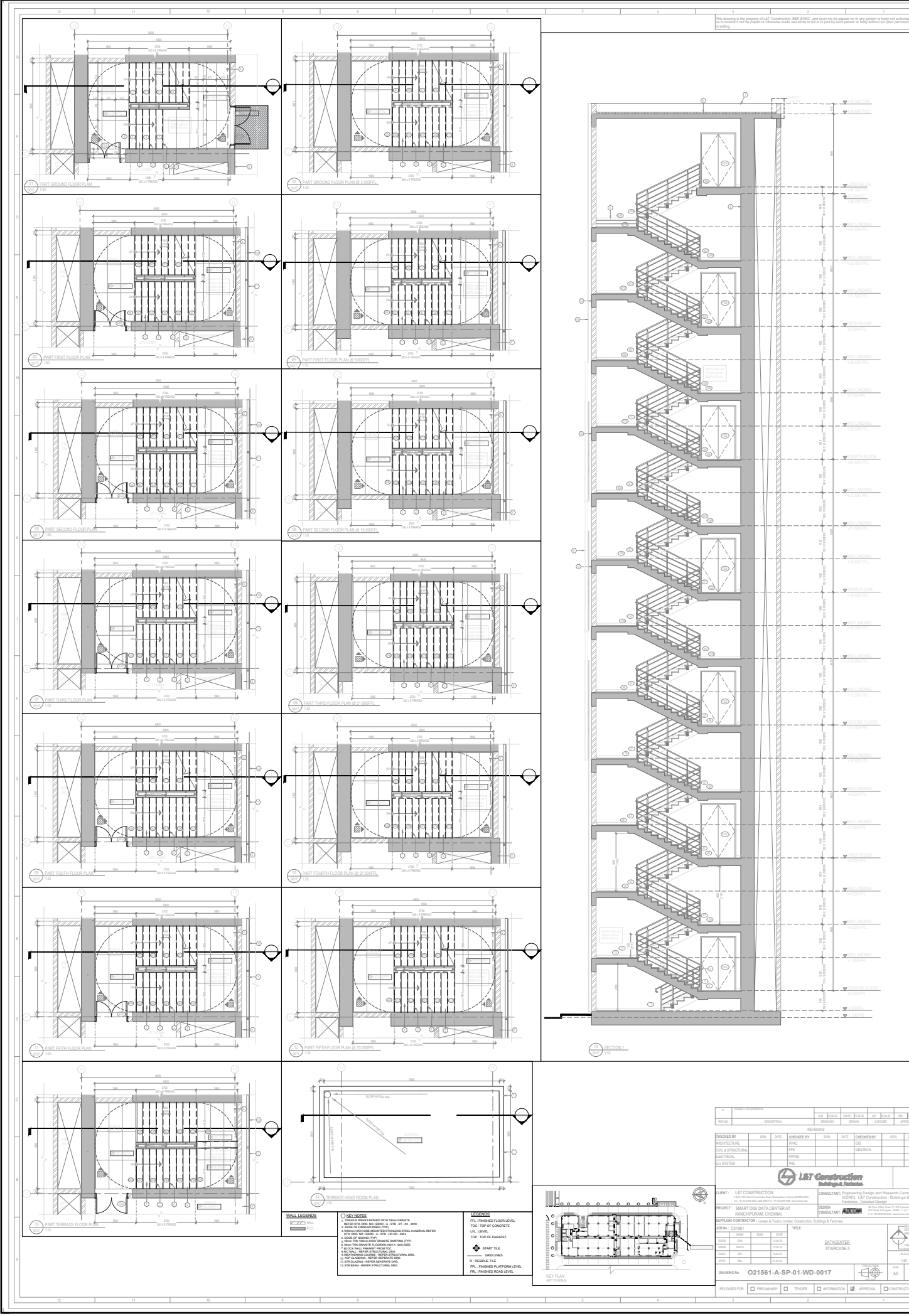

Calcium Silicate
White Board


Sancia Crema
Somany Ceramic Tiles


Granite
Asian Top south RK marble


Nano Avorio
Somany Vitrified Tiles


Paint
Brown



a) Occupancy Load (NBC 2016; Part 4; Clause 4.3, Pg. No.29)**

Space	Area Per Floor	Occupancy Per Floor
DC Building	5472 Sq.m.	5472/10 = 547 Persons

****Occupancy/Population Calculation for DC Building is as per NBC -2016 (taken as E-3 Data Processing Centers - Business Building) and is for Life Safety Calculations only.**

As per the above calculation; the no. of persons to be considered for life safety is 547 ; therefore all egress width calculation shall be considered accordingly

b) Width of Exit Stairways – Calculations as per NBC 2016 (Part 4, Table 4)

Built Up Area per Floor	Occupancy per Floor	Width per person	Effective Width Required	Egress Width Provided
5472 Sqm.	547	10mm	5470 mm	4 x 1800 m wide staircases = 7200 mm

– As per NBC 2016; Part 4 Clause 4.4.3.4.3 (Pg. 33) Minimum No. of Staircase Required : 2 Nos.;

– Min width required (as per TNCDRBR Clause 52.12 (Pg. No. 66) – 1.5M (under ‘Other Buildings’ category)

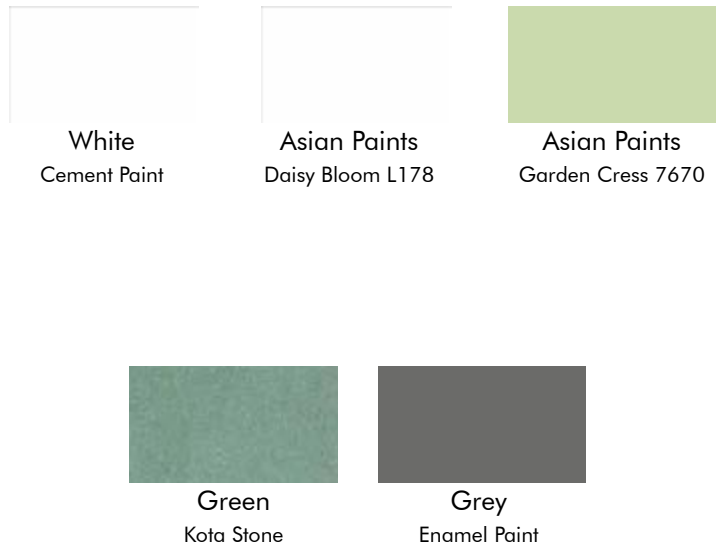
– Provided – 4 Nos. of 1.8m Wide Staircases to comply with the Maximum Fire Travel Distance (< 45m)

c) Width of Doorways

As per TIA-942 – Minimum door width required = 1.2 M – For Tier 3+ DC Building ; NBC 2016 mandates minimum of 1m Door Widths for Fire Egress Doors.

Provided :

All doorways into Server Rooms; Service Rooms and Fire Exits Opening provided measure not less that 1.2 m.



Bill of Quantities				Finishing Schedule						
Wall Schedule 3				Finishing Matrix						
Family and Type		Length	Area	Width	Key Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	
EXT_200mm RCC Wall PLINTH TEXTURE PAINT		146	85 m²	223	SHAFT	75MM SCREED	-	WHITE WASH	-	
Basic Wall: EXT_200mm Wall		188	513 m²	200	ELECTRICAL	BATTERY	UTILITY	HT PANEL ROOM	DG	
EXT_200mm Wall PLINTH TEXTURE PAINT		80	22 m²	223	DATAHALL	75MM SCREED FINISHED - 4MM THICK PU PAINT	COPPER STRIP INLAY WITH SCREED	100MM HIGH PU PAINT	ACRYLIC EMULSION PAINT	
Basic Wall: INT_150mm Wall		62	175 m²	150	FIBRE ENTRY	MMR	75MM SCREED FINISH-4MM PU PAINT	COPPER STRIP INLAY-SCREEI	100MM HIGH PU PAINT	
Basic Wall: INT_200mm Wall		123	405 m²	200	LOADING & UNLOADING	75MM SCREED FINISHED - DRY SHAKE SURFACE	100MM HIGH CEMENT SKIRTING	ACRYLIC EMULSION PAINT	SLAB SOFFIT WITH EMULSION PAINT	
Grand total: 107		599	1200 m²		TOILET	600 X 600MM THICK ANTISKID VITRIFIED TILES	2.4M HIGH CERAMIC TILE DADO	ACRYLIC EMULSION PAINT	GI METAL AND MOISTURE RESISTANT GYPSUM	
					S.CORRIDOR	S.LIFT LOBBY	600 X 600MM THICK VITRIFIED TILES	100MM VITRIFIED TILE SKIRTIH	ACRYLIC EMULSION PAINT	
					BMS	600 X 600MM THICK VITRIFIED TILES	100MM HIGH VITRIFIED TILE SKIRTING	ACRYLIC EMULSION PAINT	GYPSUM AND MINERAL FIBRE CEILING TILE	
					OFFICE	900 X 900MM THICK VITRIFIED TILES	100MM HIGH VITRIFIED TILE SKIRTING	ACRYLIC EMULSION PAINT	ALUMINIUM BAFFLE GRID WITH SOLID GYPSUM	
					TERRACE	CEMENT CONCRETE TILE	100MM HIGH CEMENT CONCRETE TILE	EXTERIOR EMULSION PAINT	-	
					PAHU	FALSE FLOORING	100MM HIGH POLISHED GRANITE	ACRYLIC EMULSION PAINT	SLAB SOFFIT WITH EMULSION PAINT	
					RECEPTION	POLISHED GRANITE	100MM HIGH POLISHED GRANITE	ACRYLIC EMULSION PAINT	POLYCARBONATE SHEET AND GYPSUM CEILING	
					PASS. LIFT LOBBY	POLISHED GRANITE	100MM HIGH POLISHED GRANITE	ACRYLIC EMULSION PAINT	GYPSUM AND MINERAL FIBRE CEILING TILE	
					STAIR-1	CONCRETE FINISH WITH ALL EDGE ANGLE	100MM HIGH POLISHED GRANITE	ACRYLIC EMULSION PAINT	SLAB SOFFIT WITH EMULSION PAINT	
					STAIR-2	CONCRETE FINISH WITH ALL EDGE ANGLE	100MM HIGH POLISHED KOTA SKIRTING	ACRYLIC EMULSION PAINT	SLAB SOFFIT WITH EMULSION PAINT	
Floor qty				Wall Schedule 2						
Level	Type	Perimeter	Area	Family and Type	Area	Length				
GROUND FLOOR LEVEL	Antiskid Vitrified tile - 600	157 m	78 m²	Basic Wall: Ext. plaster with paint	384 m²	149				
GROUND FLOOR LEVEL	Granite ASD	100 m	81 m²	Basic Wall: Ext. plaster with paint: 8	384 m²	149				
GROUND FLOOR LEVEL	Kota	348 m	1012 m²	Basic Wall: EXT_200mm RCC Wall PLINTH TEXTURE PAINT	85 m²	146				
GROUND FLOOR LEVEL	Kota 2	41 m	44 m²	Basic Wall: EXT_200mm RCC Wall PLINTH TEXTURE PAINT: 20	85 m²	146				
Floor Finish: 31		646 m	1214 m²	Basic Wall: EXT_200mm Wall	513 m²	188				
GROUND FLOOR LEVEL	Granite counter	54 m	13 m²	Basic Wall: EXT_200mm Wall: 15	513 m²	188				
GROUND FLOOR LEVEL	Granite ramp ASD	67 m	35 m²	Basic Wall: EXT_200mm Wall PLINTH TEXTURE PAINT	22 m²	80				
GROUND FLOOR LEVEL	Kota Ramp	17 m	9 m²	Basic Wall: EXT_200mm Wall PLINTH TEXTURE PAINT: 20	22 m²	80				
MISC: 3		138 m	56 m²	Basic Wall: Int. plaster above + Int Acrylic paint above	578 m²	529				
Grand total: 34		784 m	1271 m²	Basic Wall: Int. plaster above + Int Acrylic paint above: 208	578 m²	529				
Dado & Cladding qty				Basic Wall: Int. plaster+ Int Acrylic paint						
Name	Area	Basic Wall: Int. plaster+ Int Acrylic paint: 100				112 m²	374			
Ceramic Tile- 300x450	566 m²	Basic Wall: Int. plaster+ White wash				147 m²	41			
Ceramic Tile- 300x450	309 m²	Basic Wall: Int. plaster+ White wash: 24				147 m²	41			
Concrete	Cast-in-Place gray	Basic Wall: INT_150mm Wall				175 m²	62			
Vitrified Tile (Wall)	36 m²	Basic Wall: INT_150mm Wall: 20				175 m²	62			
Grand total: 228	996 m²	Basic Wall: INT_200mm Wall				405 m²	123			
				Basic Wall: INT_200mm Wall: 32				405 m²	123	
				Basic Wall: Interior - int plaster & Ceramic Dado				566 m²	348	
				Basic Wall: Interior - int plaster & Ceramic Dado: 92				566 m²	348	
				Basic Wall: Interior - Toilet plaster & Ceramic Dado				309 m²	155	
				Basic Wall: Interior - Toilet plaster & Ceramic Dado: 108				309 m²	155	
				Basic Wall: Toilet Plaster & Vitrified Dado				36 m²	25	
				Basic Wall: Toilet Plaster & Vitrified Dado: 8				36 m²	25	
				Grand total: 655				3333 m²	2221	
Plastering qty				Floor Schedule						
Name	Area	Family and Type		Area	Perimeter					
External plastering	406 m²	Floor: Antiskid tile		78 m²	157 m					
External plastering PLINTH	85 m²	Floor: Granite ASD		81 m²	100 m					
internal plastering	259 m²	Floor: Granite counter		13 m²	54 m					
internal plastering (cladding)	602 m²	Floor: Granite ramp		35 m²	67 m					
internal plastering above ceiling	578 m²	Floor: Kota		1012 m²	348 m					
Toilet plastering	309 m²	Floor: Kota 2		44 m²	41 m					
Grand total: 588	2240 m²	Floor: Kota Ramp		9 m²	17 m					
		Grand total: 34		1271 m²	784 m					
Painting qty				Railing Schedule						
Name	Area	Family and Type		Railing Height	Length					
Texture paint PLINTH	107 m²	Railing: MS Handrail entry S		1050	131 m					
Ext. Acrylic paint	384 m²	Railing: MS Handrail entry S: 24			131 m					
Int. Acrylic paint	112 m²	Railing: MS pipe rail		1100	1 m					
Int. Acrylic paint above ceiling	578 m²	Railing: MS pipe rail: 1			1 m					
White wash paint	147 m²				132 m					
Grand total: 380	1329 m²									
				Ceiling Schedule						
Type		Area	Perimeter							
30 % Mineral Fibre tile+ 70% MR Gypsum board		755 m²	225							
Emulsion paint		286 m²	147							
MR Gypsum		75 m²	154							
Grand total: 29		1116 m²	527							

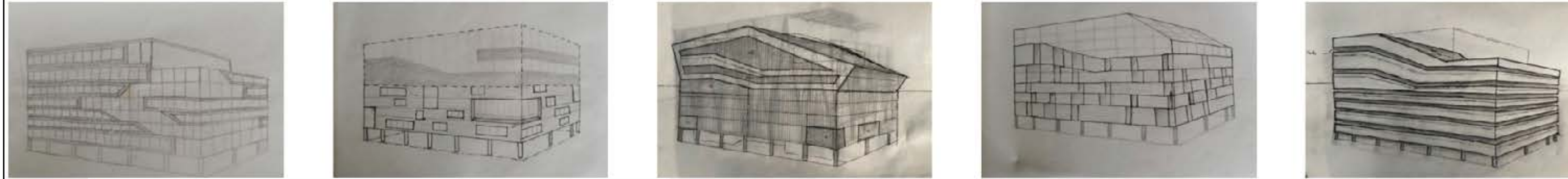
AUDITORIUM

- The proposed site is located within the L&T Campus, Chennai. The site can be accessed from Mount Poonamallee Road on the North
- The site is surrounded with Commercial and IT Offices.
- The proposed site is connected to the Chennai International Airport via Alandur (8.3KM)

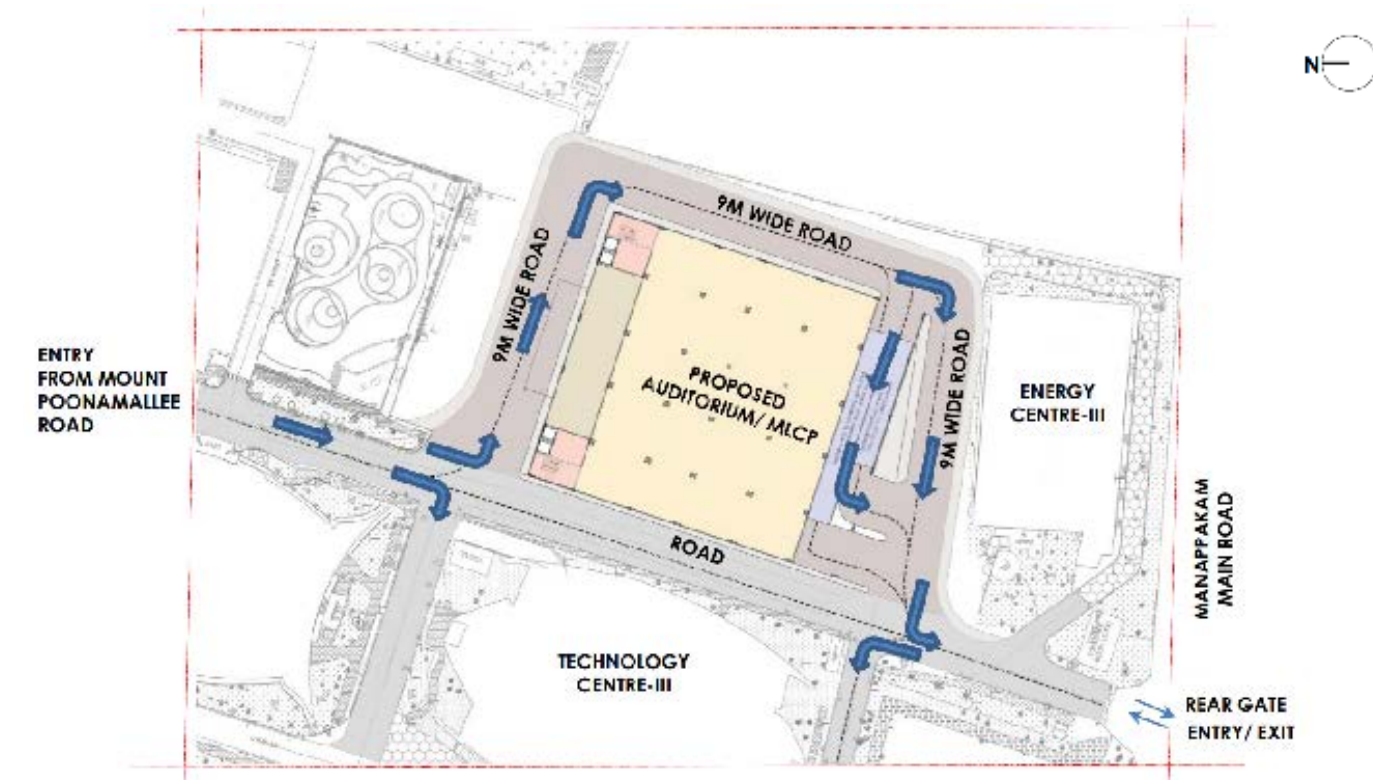
site



conceptual sketches



site plan



S.No.	Description of Work	Floor plate area (Sq.m.)	Floor plate area (sq.ft)
1	BASEMENT-3 (Parking)	3,696	39,780
2	BASEMENT-2 (Parking)	3,696	39,780
3	BASEMENT-1 (Parking)	3,696	39,780
4	GROUND FLOOR (R&D)	3,696	39,780
5	FIRST FLOOR (IPM & FMD)	3,696	39,780
6	SECOND FLOOR (Parking)	3,696	39,780
7	THIRD FLOOR (Parking)	3,696	39,780
8	FOURTH FLOOR (Parking)	3,696	39,780
9	FIFTH FLOOR (Auditorium)	3,696	39,780
10	FIFTH FLOOR (Auditorium Mezzanine)	2,856	30,739
11	TERRACE-HEADROOM	218	2,346
Total		36,338	3,91,106

option 1

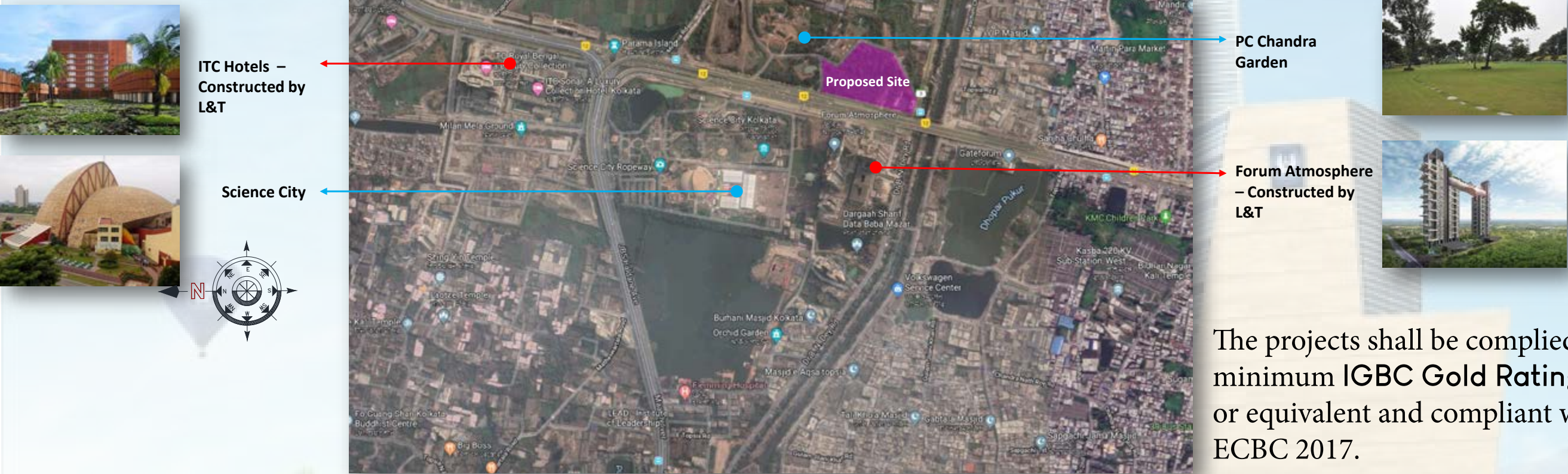


option 2



OFFICE BUILDING - KOLKATA

Site Location



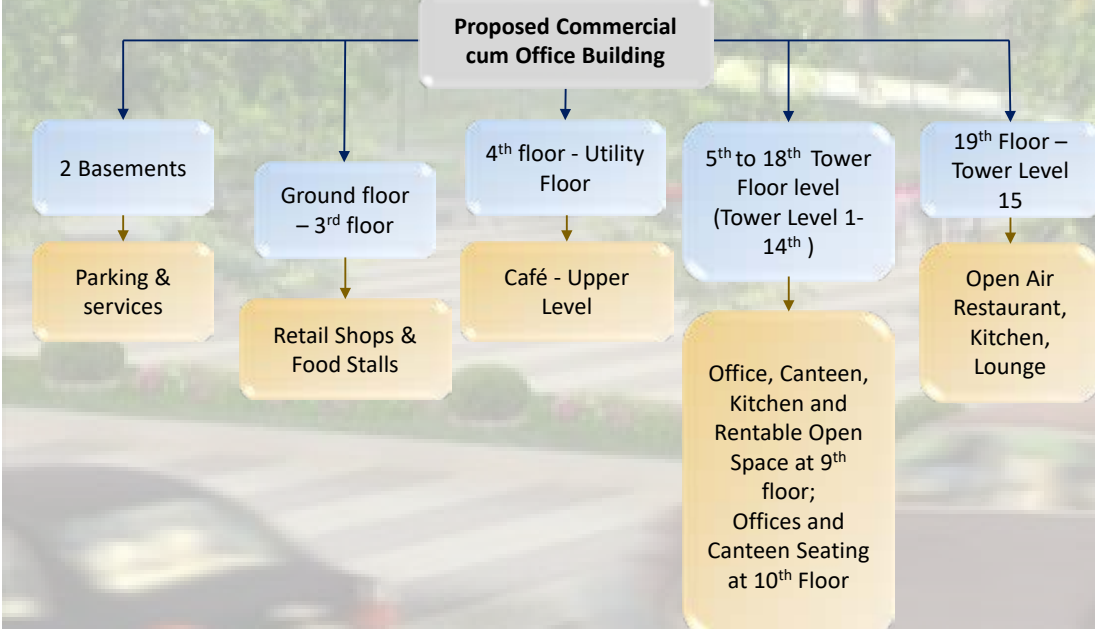
The projects shall be complied with minimum IGBC Gold Rating or equivalent and compliant with ECBC 2017.

Site Location: Eastern Metropolitan Bypass, Kolkata

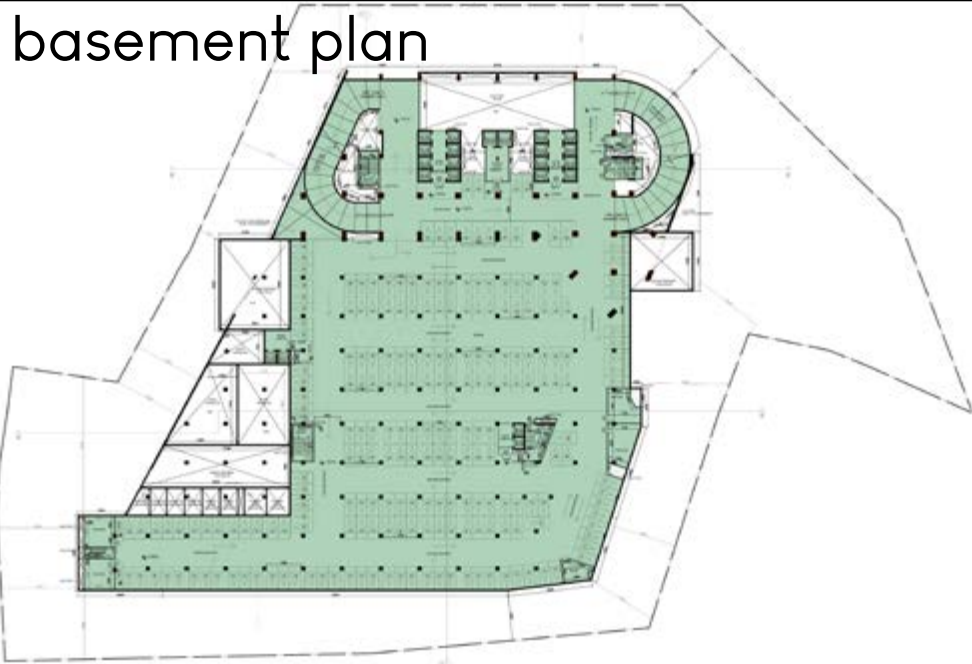
Site Landmarks:

- There are property of P.C Chandra on the eastern side.
- Premium world-class residential building Forum Atmosphere is on the western side.
- Netaji Subhash Chandra Bose Airport Kolkata is situated approximately 16 Km North-East side.

Description of Building



basement plan



ground floor



first floor



second floor



third floor

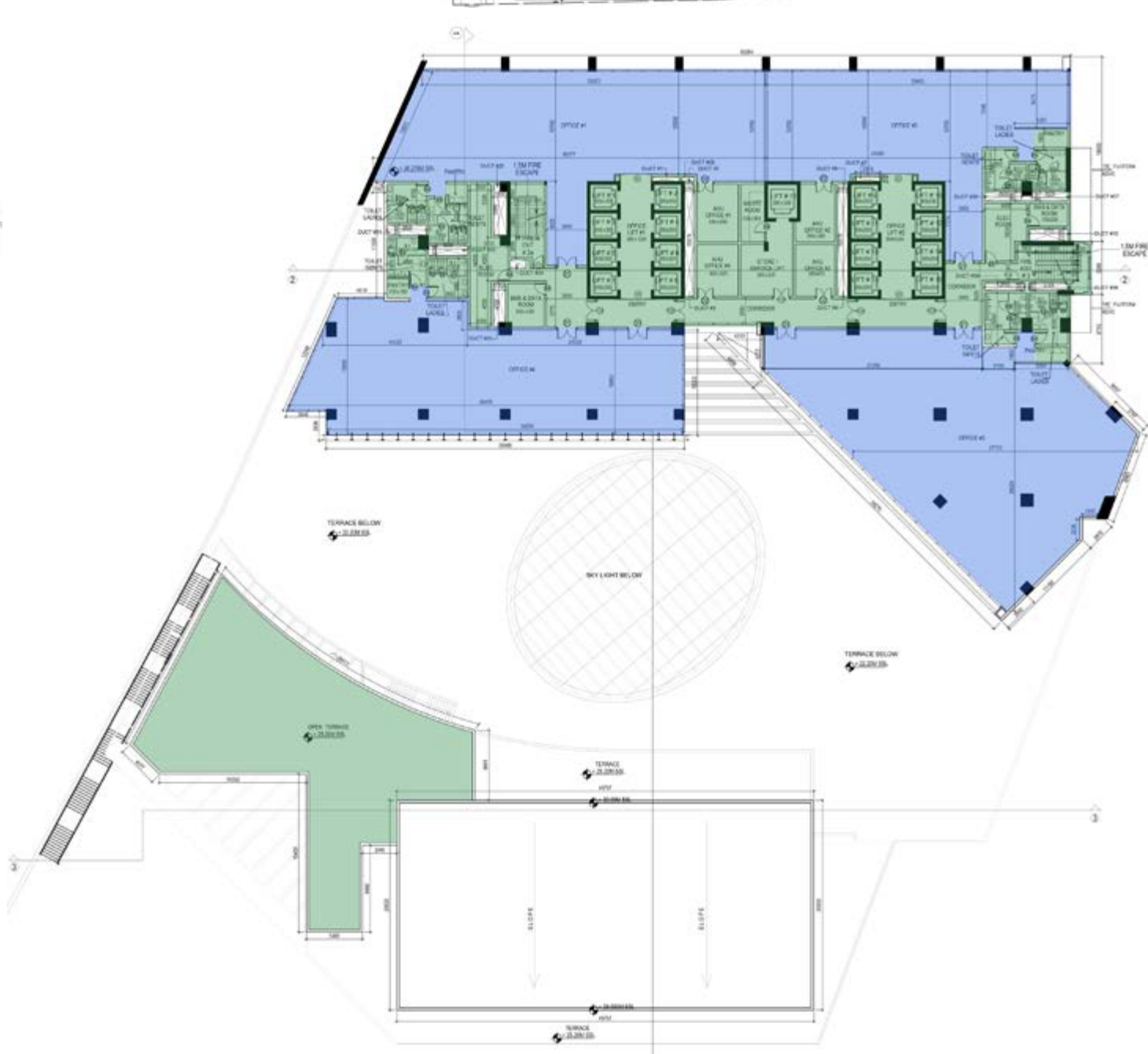


terrace level

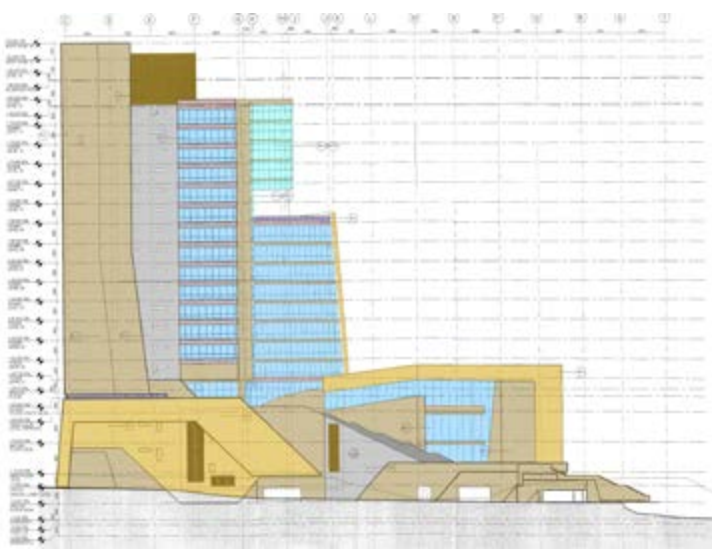


	Contractor Scope
	Tenant Scope
	Not in Scope
	Fire Escape Staircase
	Passenger Lift
	Service Lift

typical floor - office spaces



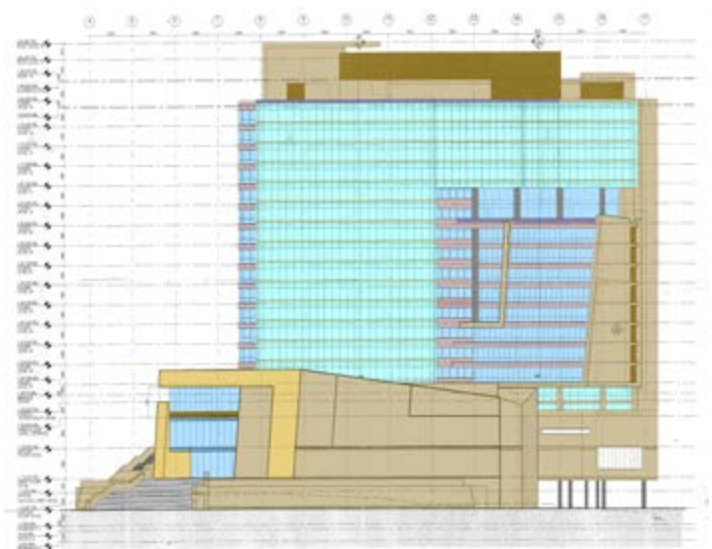
NORTH ELEVATION



SOUTH ELEVATION



WEST ELEVATION

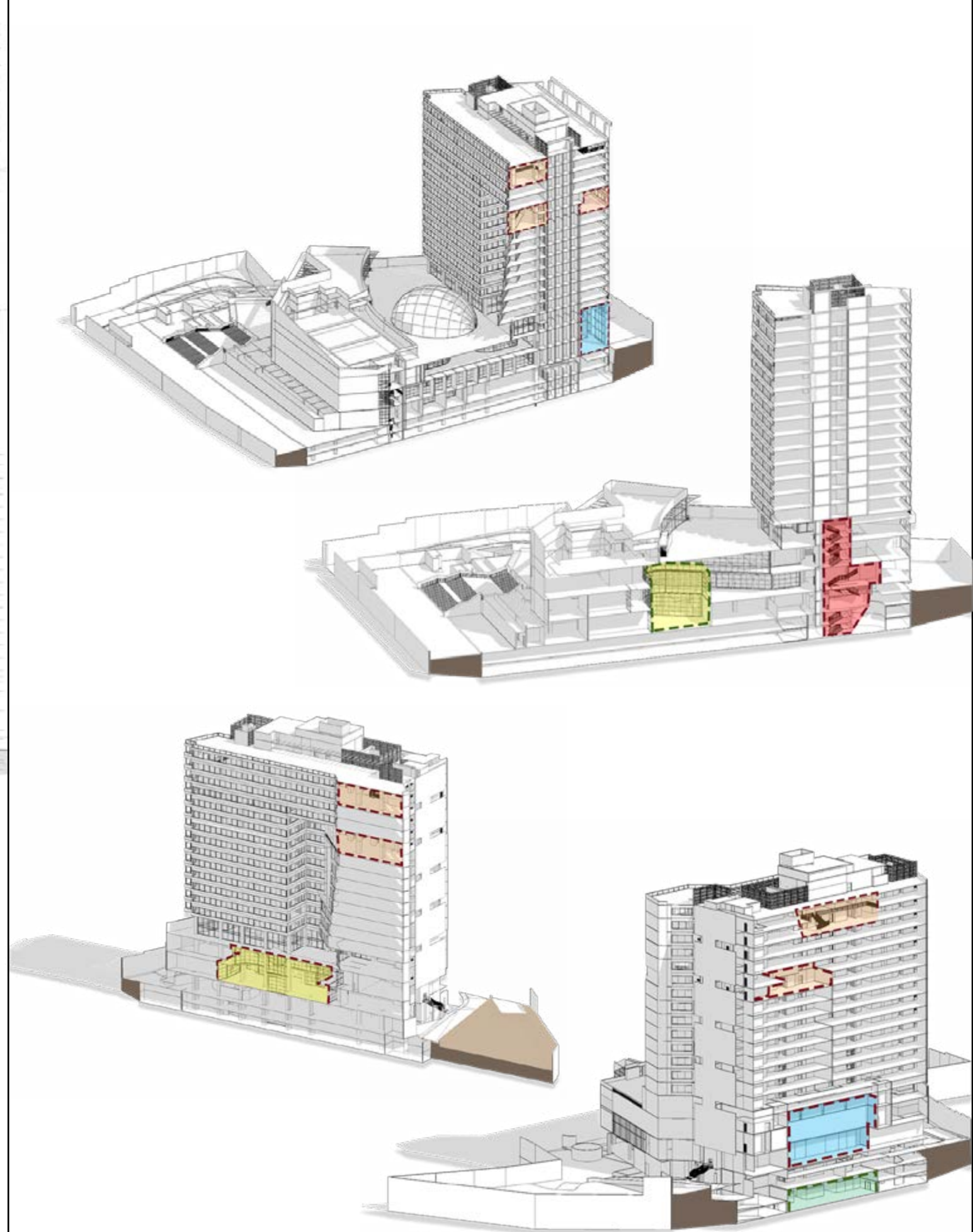


EAST ELEVATION



	Double layer screening system; Window wall system
	Unitized curtain wall system
	Spider glazing with cable support system
	Dry cladding system with anchors
	Dry cladding system or plaster to match
	Perforated screen system
	Glass rail system – Exterior only
	Louver system
	Top Hung Aluminium Windows
	Textured Pigment Plaster – Type 1 Beige
	Textured Pigment Plaster – Type 2 Light Grey
	Textured Pigment Plaster – Type 3 Grey

SECTIONAL VIEWS



Description of work	Tower area							Non Tower area					BUA in Sq. m (A) As calculated from CAD Drawings Recd.	BUA in Sq. ft. (B)	Car parking (in nos.)	BUA in Sq. m As per Tender document (C) As per Bid III Document – Pg. No. 151	BUA in sq.ft As per tender document (D)	Diff. In BUA (in Sq. m) (A - C)	Diff. In BUA (in Sq. ft.) (B - D)
	Common area (including service spaces) in Sq. m	Parking area in Sq. m	Retail area in Sq. m	Food court area in Sq. m	Restaurant area in Sq. m	Refuge area in Sq. m	Office area in Sq. m	Common area (including service spaces) in Sq. m	Parking area in Sq. m	Retail area in Sq. m	Food court area in Sq. m	Cafe area							
Investment Building																			
Basement level 2	1,114	2,116						1,774	5,668				10,672	1,14,873	232	10,849	1,16,778	-177	-1,905
Basement level 1	439	1,911						575	5,768				8,693	93,571	224	8,237	88,659	456	4,913
Ground floor	1,043	1,275	1,752					769	1,549	1,765			8,153	87,759	123	8,017	86,292	136	1,467
First floor	1,848		847					1,399		2,234			6,328	68,115		6,371	68,580	-43	-466
Second floor	1,533			132				1,436		920	928		4,950	53,282		5,746	61,854	-796	-8,572
Third floor	2,284		505		615			145				200	3,749	40,354		1,996	21,483	1,753	18,871
Fourth floor	1,478											386	1,864	20,064		1,141	12,278	723	7,786
Service floor	920												920	9,903			0	920	9,903
Tower level 1	1,058						1,609						2,667	28,708		2,577	27,736	90	971
Tower level 2	1,058					25	1,609						2,692	28,977		2,563	27,583	129	1,393
Tower level 3	1,058						1,609						2,667	28,708		2,548	27,429	119	1,279
Tower level 4	1,058						1,609						2,667	28,708		2,514	27,063	153	1,645
Tower level 5	1,058					25	1,528						2,611	28,105		2,503	26,944	108	1,160
Tower level 6	1,058						1,528						2,586	27,836		2,492	26,827	94	1,009
Tower level 7	1,058						1,528						2,586	27,836		2,482	26,714	104	1,122
Tower level 8	1,058					25	1,528						2,611	28,105		2,471	26,601	140	1,504
Tower level 9	1,058						1,531						2,589	27,868		2,406	25,899	183	1,969
Tower level 10	941						931						1,872	20,150		1,787	19,234	85	916
Tower level 11	1,009					25	1,662						2,696	29,020		2,526	27,189	170	1,830
Tower level 12	1,009						1,662						2,671	28,751		2,526	27,189	145	1,561
Tower level 13	1,009						1,662						2,671	28,751		2,526	27,189	145	1,561
Tower level 14	1,009					25	986						2,020	21,743		1,904	20,496	116	1,247
Tower level 15	819												819	8,816		356	3,831	463	4,985
Total BUA of Building	25,977	5,302	3,104	132	615		20,982	6,098	12,985	4,919	928	586	81,754	8,80,000	579	76,538	8,23,850	5,216	56,150
Ancillary Structure - Security Cabins																			
Security cabin 1	10												10	108					10
Security cabin 2	10												10	108					10
Total BUA of Investment building & Security cabins													81,774	8,80,215			76,538	8,23,850	5,236
Notes :																			
1) The built up area statement based on AutoCAD drawings received from client as a part of tender document																			
2) Double height cut-outs are deducted at upper floors and accounted at ground floor.																			
3) Staircase head rooms, service lift machine rooms at terrace floor are not accounted in built up area																			
4) Any variation in the building profile at a later date shall have an implication on the floor area calculated.																			

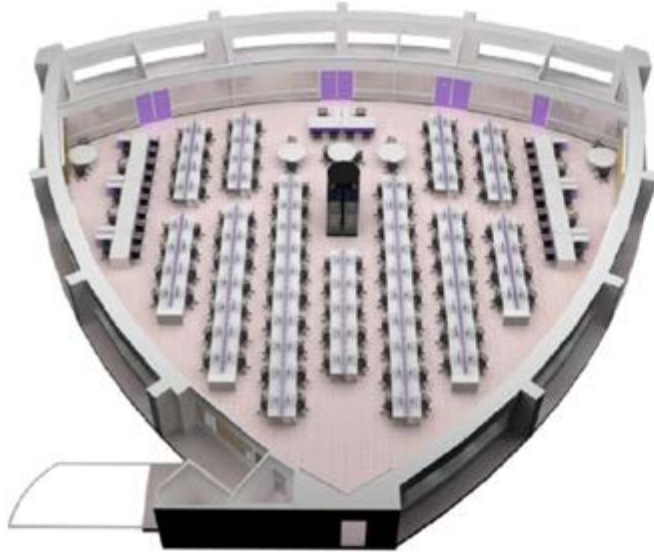
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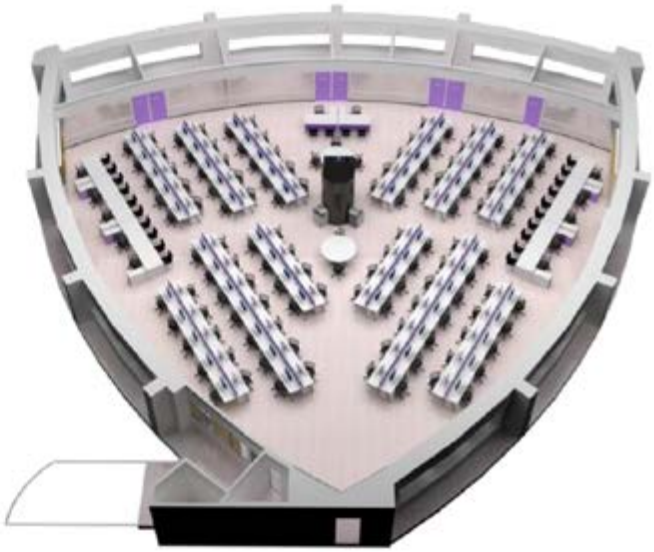
OFFICE - FURNITURE LAYOUT

In this project, the challenge is to increase the number of seatings in an office by not disturbing the structure but redesigning furniture layout in accordance with the Anthropometrics of the users. Here the count of draftsman and engineers should be kept in consderation for the design. To create a Furniture Layout: 1. Map out the rooms/space. 2. Get to the drawing board. 3. Arrange in a balanced way. 4. Consider traffic flow. 5. Highlight a focal point. 6. Use lighting to have advantage.

Option - 1



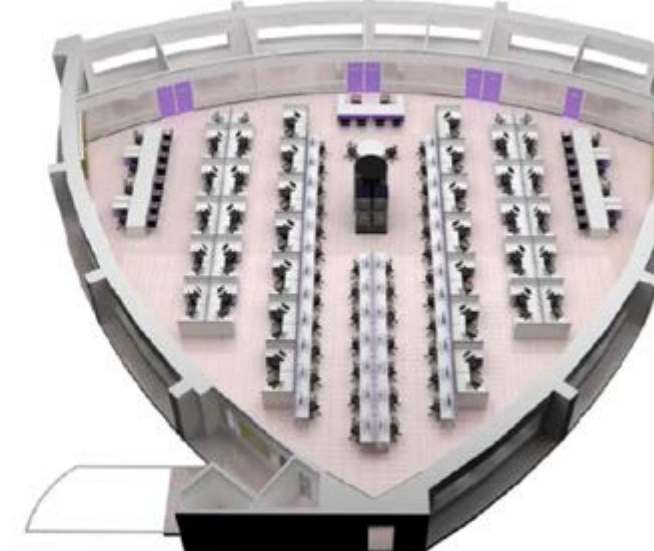
Option - 2



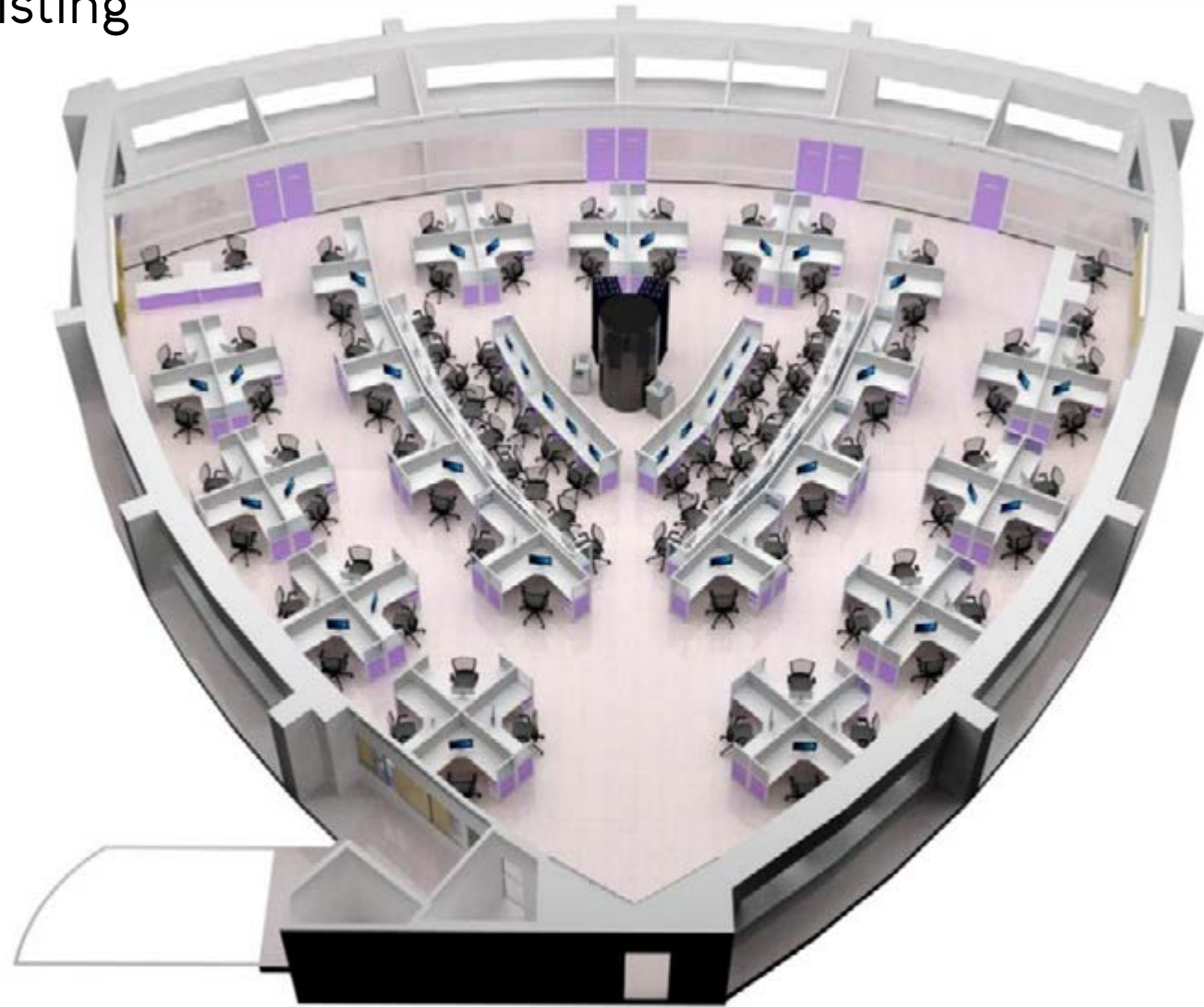
Option - 3



Option - 4



Existing

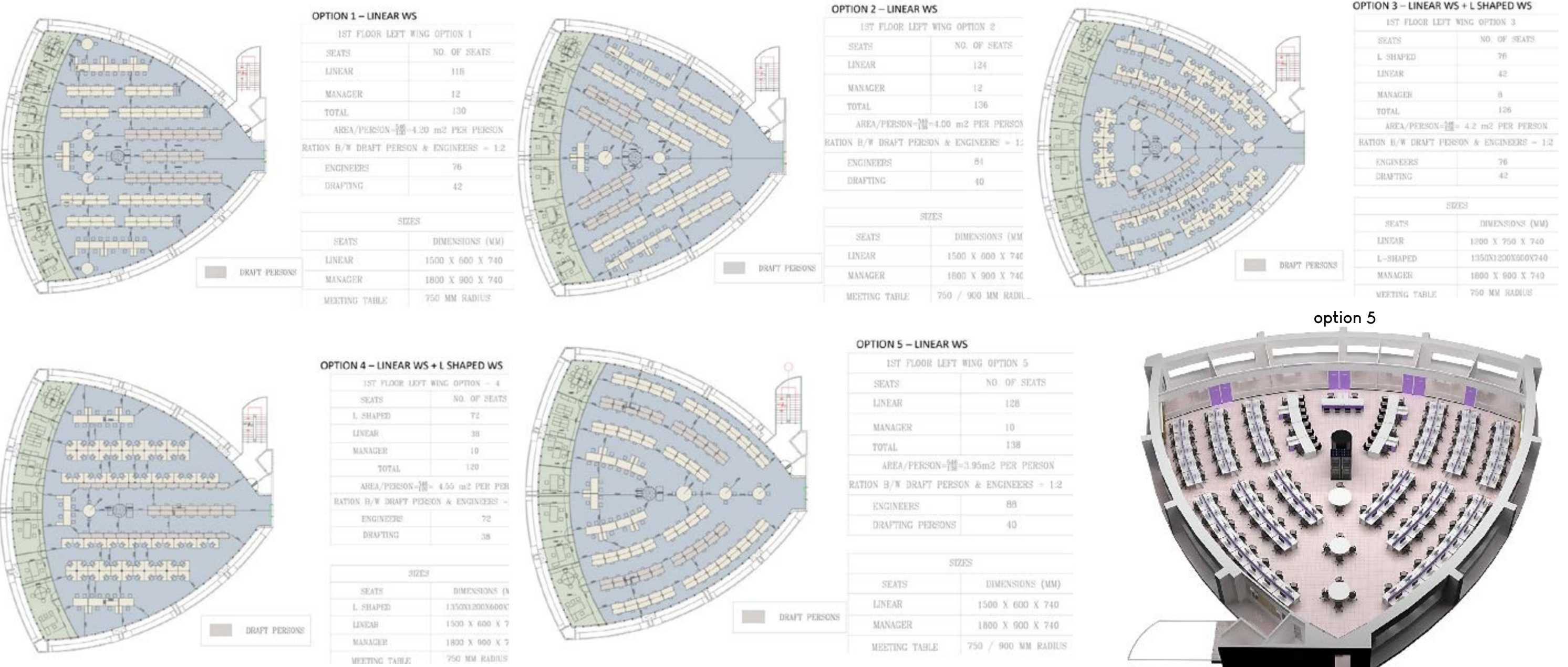
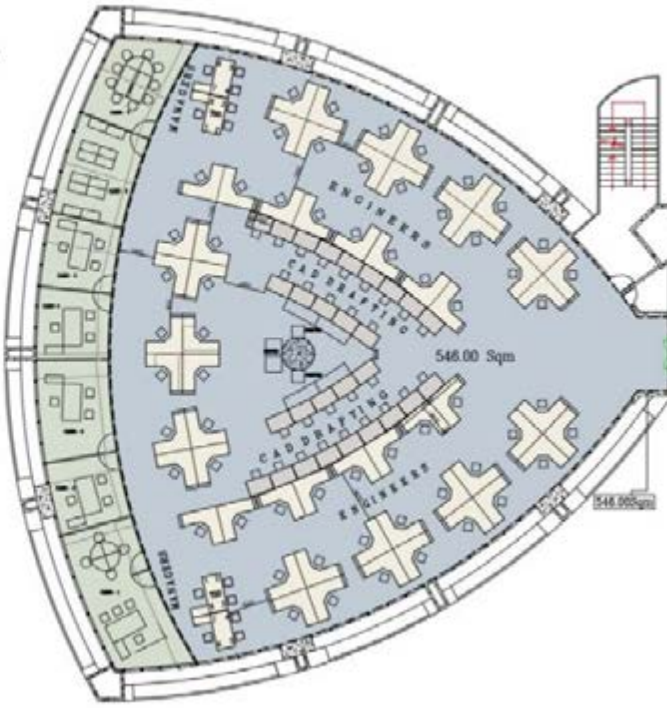


REQUIREMENT :

- a) No. of Workstations / Wing - 130 Nos. Approx.
- b) Ratio – Draftsman/Engineers – 1:2
- c) Meeting tables to be introduced
- d) Manager tables to be increased

LEFT WING EXISTING		SIZES	
SEATS	NO. OF SEATS	SEATS	DIMENSIONS (MM)
L SHAPED	60	L SHAPED	1800 X 600 X 740
LINEAR	28	LINEAR	1200 X 740 X 740
MANAGER	4	MANAGER	1800 X 900 X 740
TOTAL	92	SERVER	800 X 800
AREA/PERSON=100/92=1.08m2 PER PERSON		PRINTER	560 X 560
RATION B/W DRAFT PERSON & ENGINEERS = 1:2			
DRAFTING	28		
ENGINEERS	60		

EXISTING



COMPARISON TABLE

S.NO		EXISTING	OPTION-1	OPTION-2	OPTION-3	OPTION-4	OPTION-5
1	L-WORKSTATION	60	0	0	76	72	0
2	LINEAR WORKSTATION	28	118	124	42	38	128
3	MANAGER	4	12	12	8	10	10
	TOTAL	92	130	136	126	120	138

- Why option 5 is preferable
- Aesthetically matches with plan profile
 - We have enough aisle space
 - We getting more managers
 - More seating than any other option
 - We utilize carpet area more than any other option



11.NBC-Analysis

(On Live Project)

Absolute safety from fire is not attainable in practice. The objective of NBC is to specify minimum measures that will provide a degree of safety that can be reasonably achieved.

The requirement of this code should be taken as a guide and an engineering design approach should be adapted for ensuring a fire safety design for buildings.

Diagram illustrating the dimensions of a modern bathroom interior, showing a toilet, bathtub, shower area, and vanity with various measurements in centimeters (cm).

- Toilet Dimensions:**
 - Height: 78cm
 - Width: 56cm
 - Seat height: 45cm
- Bathtub Dimensions:**
 - Height: 60cm
 - Width: 90cm
- Shower Area Dimensions:**
 - Height: 210cm
- Vanity Dimensions:**
 - Height: 80cm
- Mirror Dimensions:**
 - Height: 50cm
- Other Measurements:**
 - Small shelf height: 15cm
 - Small step height: 40cm

Logo: SHE INTERIOR DESIGN

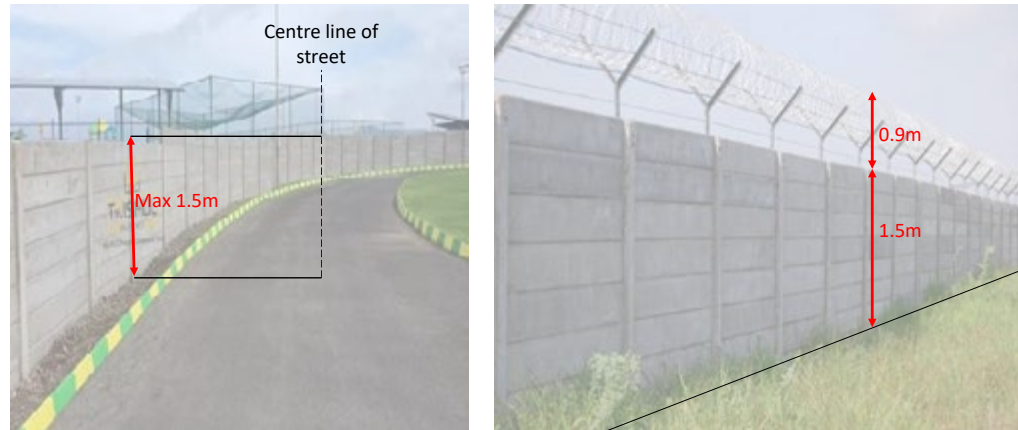
Diagram illustrating the dimensions for a DA Toilet (Accessible Toilet) setup, showing the sink, toilet, and grab bars with their respective height and reach requirements.

- Sink:**
 - Height: 750-850mm
 - Clearance below: 800mm
- Toilet:**
 - Height: 450-480mm
 - Clearance below: 680-800mm
 - Reach to flush valve: ≥ 600 mm
 - Reach to toilet seat: 200-300mm
- Grab Bars:**
 - Height: 700-900mm
 - Length: 1500-1700mm

The left drawing is a cross-section of the compound wall, showing a base of 600mm and a height of 2500mm. The right drawing is a key plan of the site, showing the layout of the building and the location of the compound wall, highlighted in red.

SECTION COMPOUND WALL - EQUINIX

**KEY PLAN
EQUINIX - SITE PLAN**



DA Corridor

KEY PLAN
LIC BUILDING - TOWER PLAN LEVEL 1
OFFICE

CORRIDOR - 1

LIFT #15

3075

1800

≥1800mm

≥1500mm

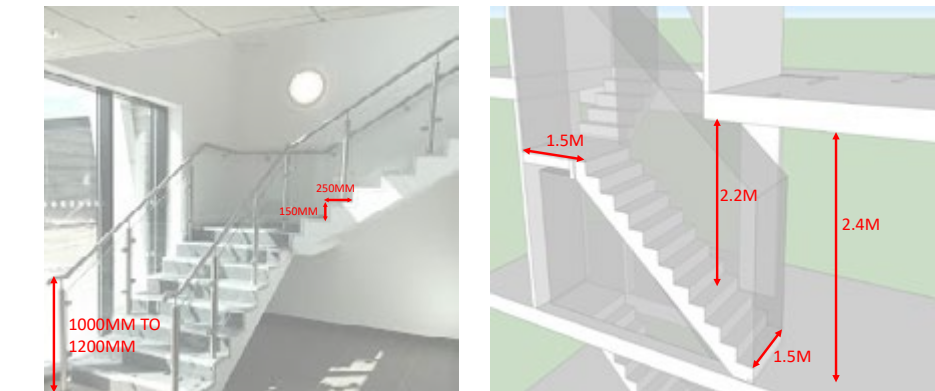
Two way traffic

One way traffic

KEY PLAN
LIC BUILDING - GROUND FLOOR

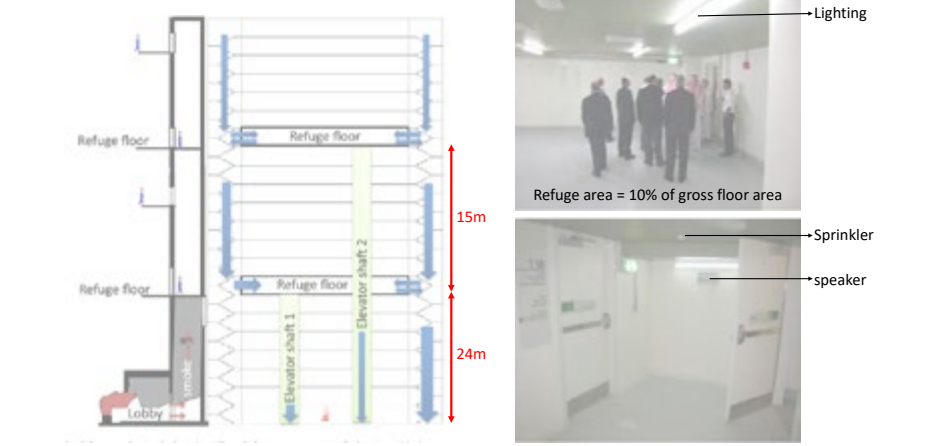
STAIRCASE :
width of staircase 1500mm
1500 / 10 = 150 persons
capacity - 300 persons (provided 2 staircase each of width 1500mm)

LEVEL COMPONENT :
clear width of door - 1100mm
1100 / 6.5 = 168 = 170 persons
capacity - 340 persons (provided 2 fire exit doors each of width 1100mm)



REFUGE AREA REQUIREMENT

1. FOR BUILDINGS MORE THAN 20.0 M HEIGHT, IMBIBES ACCORDING TO 2.0
2. IF THE AREA OF THE REFUGE AREA IS TO BE IN AN AREA EQUIVALENT TO 3.0 M, THE REFUGE AREA SHALL BE ACCORDING TO THE REQUIREMENT 2.0
3. SHALL INCLUDE REFUGE AREA TO ACCOMMODATE ONE HUNDRED PERCENT OF THE PEOPLE IN THE BUILDING FOR THE REFUGE AREA. THE REFUGE AREA SHALL BE 1.0 M, 2.0 M, 3.0 M, 4.0 M, 5.0 M, 6.0 M, 7.0 M, 8.0 M, 9.0 M, 10.0 M, 11.0 M, 12.0 M, 13.0 M, 14.0 M, 15.0 M, 16.0 M, 17.0 M, 18.0 M, 19.0 M, 20.0 M, 21.0 M, 22.0 M, 23.0 M, 24.0 M, 25.0 M, 26.0 M, 27.0 M, 28.0 M, 29.0 M, 30.0 M, 31.0 M, 32.0 M, 33.0 M, 34.0 M, 35.0 M, 36.0 M, 37.0 M, 38.0 M, 39.0 M, 40.0 M, 41.0 M, 42.0 M, 43.0 M, 44.0 M, 45.0 M, 46.0 M, 47.0 M, 48.0 M, 49.0 M, 50.0 M, 51.0 M, 52.0 M, 53.0 M, 54.0 M, 55.0 M, 56.0 M, 57.0 M, 58.0 M, 59.0 M, 60.0 M, 61.0 M, 62.0 M, 63.0 M, 64.0 M, 65.0 M, 66.0 M, 67.0 M, 68.0 M, 69.0 M, 70.0 M, 71.0 M, 72.0 M, 73.0 M, 74.0 M, 75.0 M, 76.0 M, 77.0 M, 78.0 M, 79.0 M, 80.0 M, 81.0 M, 82.0 M, 83.0 M, 84.0 M, 85.0 M, 86.0 M, 87.0 M, 88.0 M, 89.0 M, 90.0 M, 91.0 M, 92.0 M, 93.0 M, 94.0 M, 95.0 M, 96.0 M, 97.0 M, 98.0 M, 99.0 M, 100.0 M, 101.0 M, 102.0 M, 103.0 M, 104.0 M, 105.0 M, 106.0 M, 107.0 M, 108.0 M, 109.0 M, 110.0 M, 111.0 M, 112.0 M, 113.0 M, 114.0 M, 115.0 M, 116.0 M, 117.0 M, 118.0 M, 119.0 M, 120.0 M, 121.0 M, 122.0 M, 123.0 M, 124.0 M, 125.0 M, 126.0 M, 127.0 M, 128.0 M, 129.0 M, 130.0 M, 131.0 M, 132.0 M, 133.0 M, 134.0 M, 135.0 M, 136.0 M, 137.0 M, 138.0 M, 139.0 M, 140.0 M, 141.0 M, 142.0 M, 143.0 M, 144.0 M, 145.0 M, 146.0 M, 147.0 M, 148.0 M, 149.0 M, 150.0 M, 151.0 M, 152.0 M, 153.0 M, 154.0 M, 155.0 M, 156.0 M, 157.0 M, 158.0 M, 159.0 M, 160.0 M, 161.0 M, 162.0 M, 163.0 M, 164.0 M, 165.0 M, 166.0 M, 167.0 M, 168.0 M, 169.0 M, 170.0 M, 171.0 M, 172.0 M, 173.0 M, 174.0 M, 175.0 M, 176.0 M, 177.0 M, 178.0 M, 179.0 M, 180.0 M, 181.0 M, 182.0 M, 183.0 M, 184.0 M, 185.0 M, 186.0 M, 187.0 M, 188.0 M, 189.0 M, 190.0 M, 191.0 M, 192.0 M, 193.0 M, 194.0 M, 195.0 M, 196.0 M, 197.0 M, 198.0 M, 199.0 M, 200.0 M, 201.0 M, 202.0 M, 203.0 M, 204.0 M, 205.0 M, 206.0 M, 207.0 M, 208.0 M, 209.0 M, 210.0 M, 211.0 M, 212.0 M, 213.0 M, 214.0 M, 215.0 M, 216.0 M, 217.0 M, 218.0 M, 219.0 M, 220.0 M, 221.0 M, 222.0 M, 223.0 M, 224.0 M, 225.0 M, 226.0 M, 227.0 M, 228.0 M, 229.0 M, 230.0 M, 231.0 M, 232.0 M, 233.0 M, 234.0 M, 235.0 M, 236.0 M, 237.0 M, 238.0 M, 239.0 M, 240.0 M, 241.0 M, 242.0 M, 243.0 M, 244.0 M, 245.0 M, 246.0 M, 247.0 M, 248.0 M, 249.0 M, 250.0 M, 251.0 M, 252.0 M, 253.0 M, 254.0 M, 255.0 M, 256.0 M, 257.0 M, 258.0 M, 259.0 M, 260.0 M, 261.0 M, 262.0 M, 263.0 M, 264.0 M, 265.0 M, 266.0 M, 267.0 M, 268.0 M, 269.0 M, 270.0 M, 271.0 M, 272.0 M, 273.0 M, 274.0 M, 275.0 M, 276.0 M, 277.0 M, 278.0 M, 279.0 M, 280.0 M, 281.0 M, 282.0 M, 283.0 M, 284.0 M, 285.0 M, 286.0 M, 287.0 M, 288.0 M, 289.0 M, 290.0 M, 291.0 M, 292.0 M, 293.0 M, 294.0 M, 295.0 M, 296.0 M, 297.0 M, 298.0 M, 299.0 M, 300.0 M, 301.0 M, 302.0 M, 303.0 M, 304.0 M, 305.0 M, 306.0 M, 307.0 M, 308.0 M, 309.0 M, 310.0 M, 311.0 M, 312.0 M, 313.0 M, 314.0 M, 315.0 M, 316.0 M, 317.0 M, 318.0 M, 319.0 M, 320.0 M, 321.0 M, 322.0 M, 323.0 M, 324.0 M, 325.0 M, 326.0 M, 327.0 M, 328.0 M, 329.0 M, 330.0 M, 331.0 M, 332.0 M, 333.0 M, 334.0 M, 335.0 M, 336.0 M, 337.0 M, 338.0 M, 339.0 M, 340.0 M, 341.0 M, 342.0 M, 343.0 M, 344.0 M, 345.0 M, 346.0 M, 347.0 M, 348.0 M, 349.0 M, 350.0 M, 351.0 M, 352.0 M, 353.0 M, 354.0 M, 355.0 M, 356.0 M, 357.0 M, 358.0 M, 359.0 M, 360.0 M, 361.0 M, 362.0 M, 363.0 M, 364.0 M, 365.0 M, 366.0 M, 367.0 M, 368.0 M, 369.0 M, 370.0 M, 371.0 M, 372.0 M, 373.0 M, 374.0 M, 375.0 M, 376.0 M, 377.0 M, 378.0 M, 379.0 M, 380.0 M, 381.0 M, 382.0 M, 383.0 M, 384.0 M, 385.0 M, 386.0 M, 387.0 M, 388.0 M, 389.0 M, 390.0 M, 391.0 M, 392.0 M, 393.0 M, 394.0 M, 395.0 M, 396.0 M, 397.0 M, 398.0 M, 399.0 M, 400.0 M, 401.0 M, 402.0 M, 403.0 M, 404.0 M, 405.0 M, 406.0 M, 407.0 M, 408.0 M, 409.0 M, 410.0 M, 411.0 M, 412.0 M, 413.0 M, 414.0 M, 415.0 M, 416.0 M, 417.0 M, 418.0 M, 419.0 M, 420.0 M, 421.0 M, 422.0 M, 423.0 M, 424.0 M, 425.0 M, 426.0 M, 427.0 M, 428.0 M, 429.0 M, 430.0 M, 431.0 M, 432.0 M, 433.0 M, 434.0 M, 435.0 M, 436.0 M, 437.0 M, 438.0 M, 439.0 M, 440.0 M, 441.0 M, 442.0 M, 443.0 M, 444.0 M, 445.0 M, 446.0 M, 447.0 M, 448.0 M, 449.0 M, 450.0 M, 451.0 M, 452.0 M, 453.0 M, 454.0 M, 455.0 M, 456.0 M, 457.0 M, 458.0 M, 459.0 M, 460.0 M, 461.0 M, 462.0 M, 463.0 M, 464.0 M, 465.0 M, 466.0 M, 467.0 M, 468.0 M, 469.0 M, 470.0 M, 471.0 M, 472.0 M, 473.0 M, 474.0 M, 475.0 M, 476.0 M, 477.0 M, 478.0 M, 479.0 M, 480.0 M, 481.0 M, 482.0 M, 483.0 M, 484.0 M, 485.0 M, 486.0 M, 487.0 M, 488.0 M, 489.0 M, 490.0 M, 491.0 M, 492.0 M, 493.0 M, 494.0 M, 495.0 M, 496.0 M, 4

[illegible]

KEY PLAN
KANCHI DATA CENTRE - SITE PLAN

PAVERS

ENTRY / EXIT

3M

KERB

INTERNAL ROAD

7.5M WIDE

LEGEND:

PAVERS

KERB

Min 2.5m

Min 2.5m

Kerb

Site Visit



THANK YOU

