



Notice Inviting Tender for Drone Technology Park (DTP)

To invite bidders for the construction of DTP (Drone Technology Park) at IIT Delhi, Sonipat campus

Notice Inviting tender (NIT) Doc Version	IHFC/NIT/OPS/20241101
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**I-Hub Foundation for Cobotics
Indian Institute of Technology
Hauz Khas, New Delhi-110 016
Contact: 70426 54553**

Confidential



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A. COMPANY PROFILE

I-Hub Foundation for Robotics (IHFC), Technology Innovation Hub (TIH) of Indian Institute of Technology Delhi (IIT Delhi) is a Section 8 company, registered under The Companies Act, 2013, having a registered office at MZ-122 IIT Delhi, Hauz Khas, Delhi, India-110016, established under the mandate of the Govt. of India through the Department of Science and Technology (Ministry of Science and Technology), under its NM-ICPS (National Mission on Interdisciplinary Cyber-Physical Systems) mission for promoting research and development, incubating/promoting individuals/start-ups, entrepreneurs, organizations and corporations individually or in collaboration with faculty and other parties for harnessing the new wave of technological innovation in India.

B. ABOUT TENDER AND OBJECTIVE

IHFC invites contractors termed as “**PARTICIPANTS**” for the construction of a Drone Technology Park (DTP) at IIT Delhi, Sonipat campus, Sonipat Haryana.

Sr.	Detail	Measure
1	Project Value	Rs.6-8 Cr approx.
2	Completion time	3 months
3	Area	200 X 200 sqm (10 acres) approx.

The objective of this tender is to Identify contractors who have proven expertise and capability to construct the Drone Technology Park or similar projects.

The participant should have proven track record and experience in the construction of facilities for drone testing and manufacturing or similar activities like construction of airstrips, outdoor flying area development, and space for workshops and offices.

C. SCOPE OF WORK

The “**Participants**” to work as per the following scope of work

- a. Construct the facility as per the given layout (Indoor and Outdoor) as designed by the Architect.
- b. Supply and installation of all civil, electrical, audio-visual, interior and Outdoor materials as specified in BOQ (**Appendix A**) .
- c. Submission of DPR in discussion with IHFC and inclusion of changes wherever applicable.
- d. Getting necessary permission/compliances from MCD & TCPO planning, Environment clearance, Fire, Electrical, Tower height, etc.
- e. Need to provide the commercials for each line item given in BOQ and submit it with the bid.

D. ELIGIBILITY CRITERIA



Following will be the eligibility criteria under which the screening of tenders will be conducted. Participants should ensure all document submissions pertaining to this criterion as mentioned in the Checklist as mentioned on page no 16.

a. INCORPORATION DOCUMENTS OF PARTICIPANT(S)

- i) It should be registered under the Indian Companies Act 2013 / Partnership firm / Sole Proprietorship.
- ii) Copy of Certificate of Incorporation (COI) and / or registration certificate with GST Authorities (GSTIN).

b. EXPERIENCE OF PARTICIPANT

- i) PARTICIPANT should have substantial experience in the supply/ installation and commissioning of fabrication material into Civil, Interior, Electrical, outdoor construction, etc.
- ii) Should have relevant experience of a minimum 3-5 years and expertise in the construction of similar facilities like DTP.
- iii) He should have executed or executing minimum 5 tender(s) with value of 5 crores in last 3 years.

c. FINANCIAL CAPACITY

- i) The bidder's average turnover/revenue should be a minimum of 10 crores in the last 3 years.
- ii) The bidder should provide his Balance Sheet for the last 3 years.

d. LIAISON CAPABILITY

- i) Strong Liaison capability with all respective government agencies related to approvals like drawings from MCD/ TCPO Planning, Fire Department, Electrical Department, etc. for construction.

e. MEN, MATERIAL AND MACHINERY

- i) Ability to mobilise experienced men, materials and machinery for construction. He should have experienced supervisors/engineers and managers.

E. BID SUBMISSION AND EVALUATION PROCESS

- i) The bidder has to submit bids (Technical + Financial) only in PDF format by email for each bid. A separate copy of financial bid in MS Excel (editable) is mandatory along with the submission. No physical copy of the bid will be entertained.
- ii) PARTICIPANT(S) may be contacted for any clarity required.
- iii) PARTICIPANT (S) should follow all annexure formats, while submission of documents, for qualifying to next level.
- iv) Qualified PARTICIPANT(S) will be called and allowed to present their proposals.
- v) The evaluation committee will decide the finalist based on Technical competence, Financial competitiveness, payment and other terms and conditions.
- vi) Final results will be sent to selected participants only.

F. PAYMENT AND PENALTY CLAUSES

a. PAYMENT TERMS



- i. Payment will be made as per terms mutually agreed between IHFC and contractor.
- ii. Payment will be released against running bills and mutual agreement.
- iii. In case of any uncontrollable / unavoidable situation IHFC and partner will sit together and mutually decide any penalty or compensation.
- iv. IHFC will be making requisite TDS/TCS deductions as per tax norms.
- v. Minimum assurance value of 25 lakhs will remain with IHFC (but not exceeding 5% of the project value). This amount will be with IHFC for 1 year from the date of handing over of the project.
- vi. The rate and payment against the unlisted (permissions, etc.) work will be made as per mutual discussion.
- vii. The contractor must provide a Bank guarantee to cover potential delays, valid for 15 months from the start date of the work.

b. PENALTY CLAUSES

- i. Penalty for delay in project timelines will be charged @Rs25,000 per day from the 15th day of the completion date as per DPR.
- ii. The reinstatement of poor work will be fixed by partner at his own cost as and when raised by IHFC. In case of unfulfillment, IHFC has full rights to get it fixed at partners cost which will be deducted from assurance money (within 1 year of completion).
- iii. Penalty for not meeting Quality of Service as per BOQ or construction quality will be on actuals value of replacement including labour and material.
- iv. The contractor will pay all penalties raised towards permissions, regulation, and other miscellaneous rules pertaining to this project. Any delay on account of such penalties will also be borne and accountable to contractor.

G. DEFINITIONS

“**Bidder/ Participant/ Contractor/ Partner**” are hereby referred to as “**PARTICIPANT**” is an organization that has expressed its interest in providing the services mentioned above as per the scope of work

“**BID**” is the proposal submitted by the Participant/ Contractor with commercial rates and terms and conditions.



H. SCHEDULE

Name of Organization	I-Hub Foundation for Cobotics
Tender Type (Open/Limited/EOI/Auction/Single/Global)	Open Tender
Tender Category (Services/Goods/works)	Works
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Work/Supply
Service Category	Construction
Date of Issue/Publishing	27/11/2024
Document Download Closing Date	15/12/2024
Query Resolution last Date	18/12/2024
Bid Resubmission End Date	20/12/2024
Finalization of contractors	January 2025
Award Contract	January 2025
Bid Validity days	24 days (from the date of opening of bids)
Address for Communication	I-Hub Foundation for Cobotics, 2A-1A, 2nd Floor, R&I Park, IIT Delhi, Hauz Khas, New Delhi 110016, India Or I-Hub Foundation for Cobotics, Room No. MZ-122, IIT Delhi, Hauz Khas, New Delhi 110016, India
Contact No.	(91)-70426 54553
NIT offer availability for download	www.ihfc.co.in
Email Address	dtp@ihfc.co.in

Note: PARTICIPANT(S) to seek clarifications over the email at <dtp@ihfc.co.in> within 5 (five) days after release of tender with the subject line “Query on NIT for DTP” and addressed to “Manager-DTP, IHFC”.

- a. While raising a query contractor should specify their contact person name, designation company name and address.
- b. All the queries will be clarified over email or in an online meeting with the PARTICIPANT, within 3 working days of query.

I. GENERAL TERMS & CONDITIONS

1. The “Participant” will work dedicatedly as per the conditions specified in **Appendix B**.



2. The required competency and experience of “Participants” are mentioned in **APPENDIX D**.
3. This tender is being issued with no financial commitment, and the IHFC reserves the right to change or vary any part thereof at any stage. The IHFC also reserves the right to withdraw/cancel/re-tender, should it become necessary at any stage, without assigning the reasons whatsoever.
4. Late offers will not be considered. No responsibility will be taken for non-delivery and non-receipt of NIT Response documents.
5. A pointwise compliance statement addressing every functional requirement/ specification mentioned will be submitted. Non-compliance, if any will be clearly marked with reasons.
6. The offer should remain valid for 1 month from the opening date of tender.
7. One representative from the IHFC and one from the contractor will be stationed on-site until the project's completion to ensure proper monitoring.

I. TENDER SPECIFIC TERMS & CONDITIONS

1. The “Participant” may visit the site before submission of the tender.
2. The “Participant” will provide a Single Point of Contact (SPOC)/ Project Manager to IHFC for the engagement, management, and resolution of the requirements in **APPENDIX E**.
3. The site will be given in as is the condition, and the final handover of the site will be in fully functional condition including clearing of construction material, debris, filth, etc.
4. The “participant” will deliver the project as per the BOQ, any changes will be discussed and agreed in writing with IHFC SPOC. A mutually agreed DPR will be submitted.
5. The contractor will be liable to obtain all approvals required for site construction and for future running of the site for the following items but not limited to them
 - i. Town and Country planning for construction and green zone for drone operations
 - ii. Fire safety clearance
 - iii. Electricity clearance
 - iv. PWD / MCD / Urban Planning for drains and water supply
 - v. ATC Tower height clearance, construction and maintenance
 - vi. Environmental clearance
6. The contractor will take out specific Insurance for fulfilment of the contract. It should cover all risk including workmen reasons, contractor reasons, natural calamities & causes, riot, fire, penalties charged to IHFC by government authorities, etc.
7. Waterproofing to be ensured for Indoor structures as well as outdoor for erosion of boundary, airstrip, roads.
8. Termite treatment is to be done.
9. Temporary works such as access road, huts, offices etc can be created and will be cleared before handover.
10. The contractor will maintain the site in an orderly manner and clear it of any waste material, filth, debris on regular basis or daily if required.



11. IHFC will monitor the project on constant basis
12. Testing of material and QoS will be responsibility of contractor, The contractor will ensure that provision is made for testing and sampling. Testing will on
 - a. Workmanship quality
 - b. Loose materials used such as bitumen, sand, mortar, steel, nut bolts, etc,
 - c. Items used of brand/ quality mentioned in BOQ. The contractor will ensure that provision is made for testing and sampling.
13. Contractor to maintain records and provide for inspection of purchase quantity of loose material like steel, nut/bolts, sand, bajri, etc, but not limited to such items.
14. Compensation will be provided to contractor for increase in material cost beyond 15% of the cost provided the same is intimated before purchase of the material. Similarly, any increase GST rates will be absorbed at actuals.
15. Sub-contracting can be done for specific activity with approval of IHFC and included in DPR.
16. The contractor will make own arrangement for water and electricity using authorised methods only.
17. Safety of men and material will be responsibility of the contractor. Safety provisions to made for
 - i. Labour Safety
 - ii. Site safety and also of neighbouring areas
 - iii. Safety of inspection teams
18. Norms for environmental protection will be managed by the contractor Waterproofing is to be ensured for Indoor structures as well as outdoors for erosion of boundaries, airstrip, and roads.
19. Termite treatment is to be done.
20. The contractor will be responsible for Labour laws related to employee age, minimum wages, the roster for off-days, labour insurance, medical treatment, ESI, stay arrangement, etc, but not limited to the above.
21. The contractor will be liable to obtain all approvals required for site construction and for future running of the site for the following items but not limited to them
 - i. Fire clearance
 - ii. Electricity
 - iii. PWD works for drains and water supply
 - iv. ATC Tower construction and maintenance
 - v. Generator installation and running
 - vi. Environmental clearance
22. The contractor shall maintain the construction site in such a manner that it does not disturb the functioning of the IIT Delhi campus. It shall carry on day-to-day discussions with campus staff for proper transit and carriage of men and materials.
23. The contractor will provide a work plan (DPR) for the fulfilment of the contract and manage sufficient men, machinery and materials in advance for execution as per timelines.



24. The contractor will provide for security and lighting of the premises so that men, machinery and materials are secured. Only authorised persons will be able to access the site during the construction period.



APPENDIX A- BOQ

Please refer to annexure no from 1.1 to 2.10 of the detailed BOQ at the end of this document for your reference. For the Excel format, kindly reach out to us at dtp@ihfc.co.in .

TITLE	ANNEXURE NO.
ANNEXURE CATEGORY 1: DRAWINGS	
Zone Plan	1.1
Master Plan	1.2
Ground Floor Plan	1.3
Boundary Wall Details	1.4
Incubation and Administration building Interior Layout	1.5
Testing Lab Interior Layout	1.6
Battery Storage Interior Layout	1.7
Fuel Storage Interior Layout	1.8
Netted Zone/Training zone	1.9
Incubation and Administration building False ceiling Layout	1.10.
Testing Lab ceiling Layout	1.10A
3D Views	1.11
Incubation and Administration building - Glass/Bison partition	1.12
Guard Room Details	1.13
DMT (Drone Monitoring Tower)	1.14
Incubation and Administration building - Furniture Layout	1.15
Testing Lab - Furniture Layout	1.15A
Guard Room - Furniture Layout	1.15B
Common Washroom Layout	1.16
Guard Washroom Layout	1.16A
Asphalt Road Details	1.17
Site Electrical and lighting details	1.18
Site water management Details	1.19
ANNEXURE CATEGORY 2: DOCUMENTS	
Abstract of Project costs (2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.8, 2.9)	2
Abstract of Furniture costs (2.7, 2.7A)	2A
TITLE	ANNEXURE NO.
Area and Dimensions Chart	2.1
Detailed Item of Works for Civil Scope	2.2
Detailed Item of Works for Steel Fabrication, Installation etc	2.3
Detailed Scope for Electrical works	2.4
Detailed Item of Works for Fire and Emergency services	2.5
Detailed Item of Works for Interior works and Finishes	2.6
Detailed Item of Works for Modular Furniture Items	2.7
Detailed Item of Works for Loose Furniture Items	2.7A
Detailed Item of Works for Water supply/Plumbing etc	2.8
Detailed Item of Works for Equipment	2.9
List of Makes and Finishes	2.10.



APPENDIX B: PARTICIPANT’S NIT SUBMISSION

To,
SVP-Operation
IHFC

Sub: Submission of Expression of Interest to undertake work as specified in Invitation of Tender

Dear

In response to the Invitation for Tender published 27-Nov-2024 for the above purpose, we would like to express interest in carrying out the above-proposed task. As instructed, we are submitting the following documents as our response:

S. No.	Required Document	Submitted (Yes/No)
1.	Incorporation Certificate / Partnership Deed	
2.	GST Registration Certificate	
3.	P&L Statement, Balance Sheet and Cash Flow Statement	
4.	Organization details as per Appendix E	
5.	Experience of the Organization as per Appendix-F	
6.	List of Contact details of client organization (executed contracts) Appendix- F(b)	
7.	Contact details of Project Manager bidder organization (executed contracts) Appendix- F(c)	
8.	Profile of the SPOC proposed to manage our account. as per Appendix-G.	

Authorized signatory on behalf of the Company

Name:
Company:
Signature:

Stamp and date:

Note: This is to be furnished on the letterhead of the organization.



CHECKLIST FOR SUBMISSION OF BID

The bids (complete in all respects) must be uploaded online as explained below: -

S. No.	Details	File Types
1.	Commitment as per BOQ Appendix A	.PDF
3.	Participant NIT submission as per Appendix B	.PDF
4.	Organisational details as per Appendix C	.PDF
5.	Experience of the organisation as per Appendix D(A, B, C)	.PDF
6.	Profile of SPOC Appendix E	.PDF



APPENDIX C: ORGANISATION DETAILS:

Contact Information	
<i>Contact details of all Directors / Partners / Proprietors are to be furnished here</i>	
Organisation Details	
Name	
Address	
Phone/ Email / Website	
PAN/ TIN no.	
Director / Partner / Proprietor	
Name	
Designation	
Phone	
Email	
Director / Partner *	
Name	
Designation	
Phone	
Email	
Authorized signatory (s)	
Signature	
Name	
Company	
Stamp & Date	

* Note: Names of Dir/ Partners are to be added where applicable.



APPENDIX D: EXPERIENCE OF THE PARTICIPANT ORGANIZATION

Relevant experience of the **PARTICIPANT** organization is to be submitted in any format but addressing all the requirements mentioned in the experience part of qualification criteria and the specific requirements as mentioned in the Scope of Work section of the document., to be signed by the authorized signatory of the company.

APPENDIX -D (a) - RELEVANT SERVICES SUCCESSFULLY EXECUTED BY PARTICIPANT:

Description of projects already executed by Company (individual or collectively) in last 3 years.

Details of Successfully Executed in last 3 years		
S. No.	Project Details	
1	Description	
	Value (INR)	
	Size (Manpower + Duration)	
	Client Company	
	Service Delivered Company	
	Proof of Completion	
	Duration of Empanelment	
2	Description	
	Value (INR)	
	Size (Manpower + Duration)	
	Client Company	
	Service Delivered Company	
	Proof of Completion	
	Duration of Empanelment	

To be signed by an authorized signatory of the company

APPENDIX-D (b)- List of contact persons for contracts executed

List of Organizations for whom the Bidder has undertaken such work during the last three years (must be supported with work orders)		
Name of the organization	Name of Contact Person	Contact No.



APPENDIX D (c)- List of Project Managers (Bidder) who executed the contracts

Name of Project Manager from bidder company who executed the contracts		
Name of the organization	Name of Contact Person	Contact No.



APPENDIX E: PROFILE OF THE SPOC / PROJECT MANAGER PROPOSED TO LEAD THE EXECUTION (MINIMUM 1 PERSON):

Name		
Relevant Experiences of Minimum 3 / Services – in the last 2 years		
S. No.	Experience Description	
1	Services Description	
	SPOC-Specific Contribution to the Project	
	Engagement Duration	
2	Services Description	
	SPOC-Specific Contribution to the Project	
	Engagement Duration	

To be signed by the authorized signatory of the company

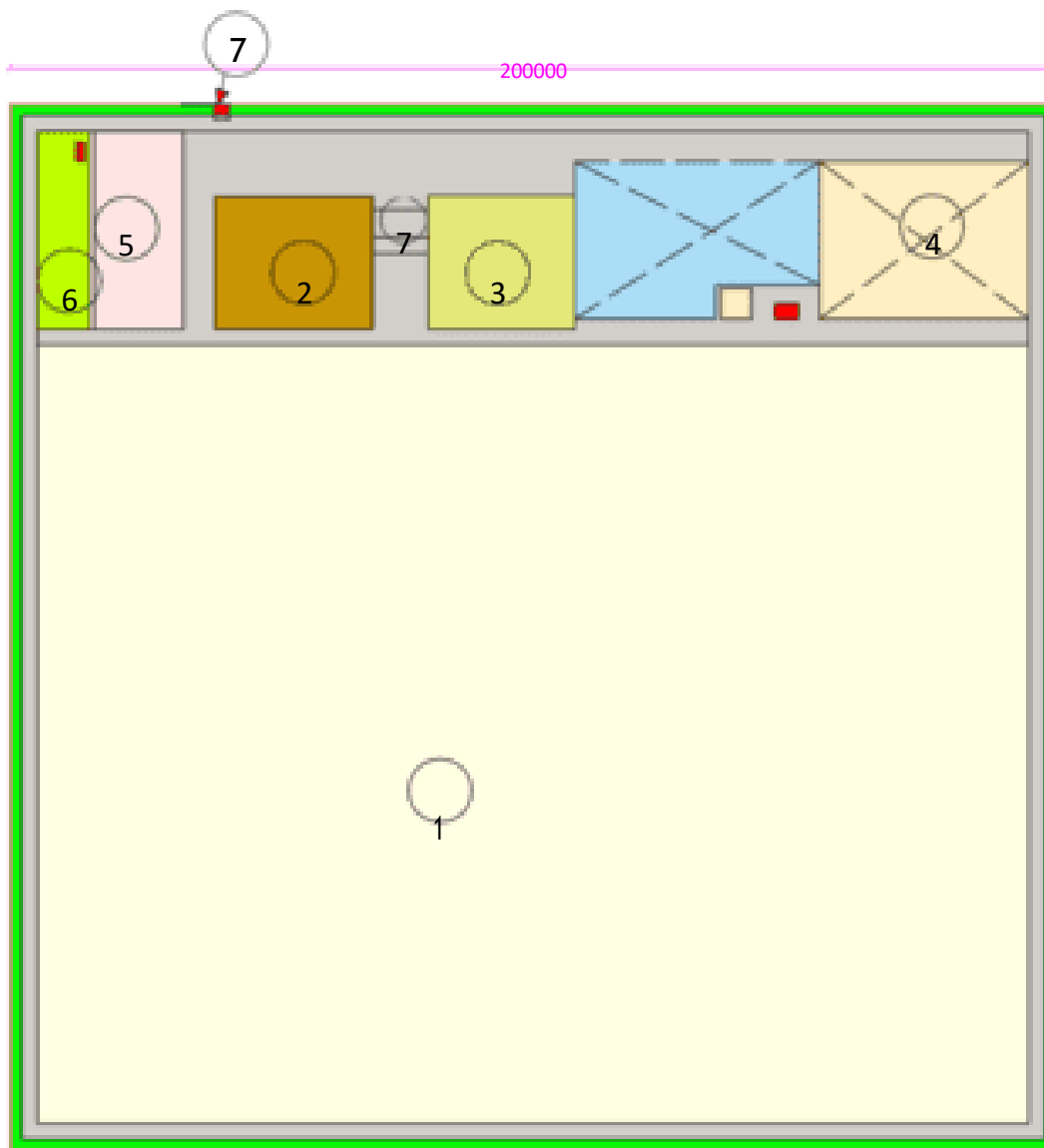
ANNEXURE 2: ABSTRACT OF PROJECT COST : BOQ/ESTIMATE SUMMARY

			Escalation if any(Mention below the percentage)	TOTAL AMOUNT IN INR
anx. no.	Description(General Category)	Amount (Rs)	0	
2.2	Item of Works for Civil		0.00	
2.3	Item of Works for Steel Fabrication, Installation etc		0.00	
2.4	Scope for Electrical works		0.00	
2.5	Item of Works for Fire and Emergency services		0.00	
2.6	Item of Works for Interior works and Finishes		0.00	
2.7	Item of Works for Water supply/Plumbing etc		0.00	
2.8	Item of Works for Equipment		0.00	
	Grand Total	0	0.00	0

Notes:

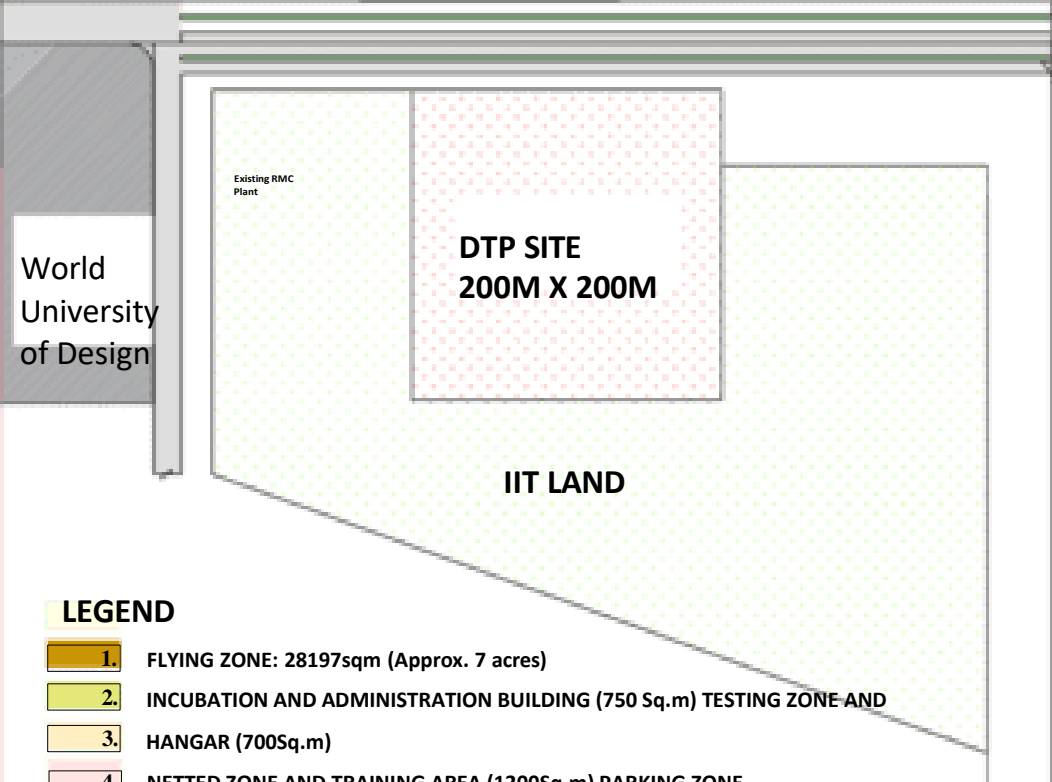
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ANNEXURE: 1.1



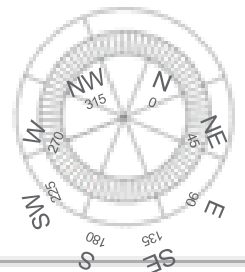
IIT DELHI
(SONIPAT
CAMPUS)

KEY PLAN



LEGEND

- 1.** FLYING ZONE: 28197sqm (Approx. 7 acres)
- 2.** INCUBATION AND ADMINISTRATION BUILDING (750 Sq.m) TESTING ZONE-AND
- 3.** HANGAR (700Sq.m)
- 4.** NETTED ZONE AND TRAINING AREA (1200Sq.m) PARKING ZONE
- 5.** (684 Sq.m)
- 6.** SERVICES (155.25 Sq.m)
- 7.** UTILITIES (59.97 Sq.m)
- 8.** FUTURE EXPANSION (1375 Sq.m)
- 9.** PAVERS(ZIG ZAG) PLANTATION
- 10.**



26.11.2024
Rev: 03
Drawn By: Suman
Checked By: Ar. Aastha

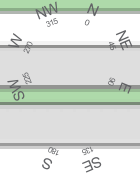
ZONE PLAN
Drone Technology Park, Sonipat

Notes:
- All Dimensions are in mm
- Printed layout is not to be scaled.
- Areas written are in Sq.m

MASTER PLAN

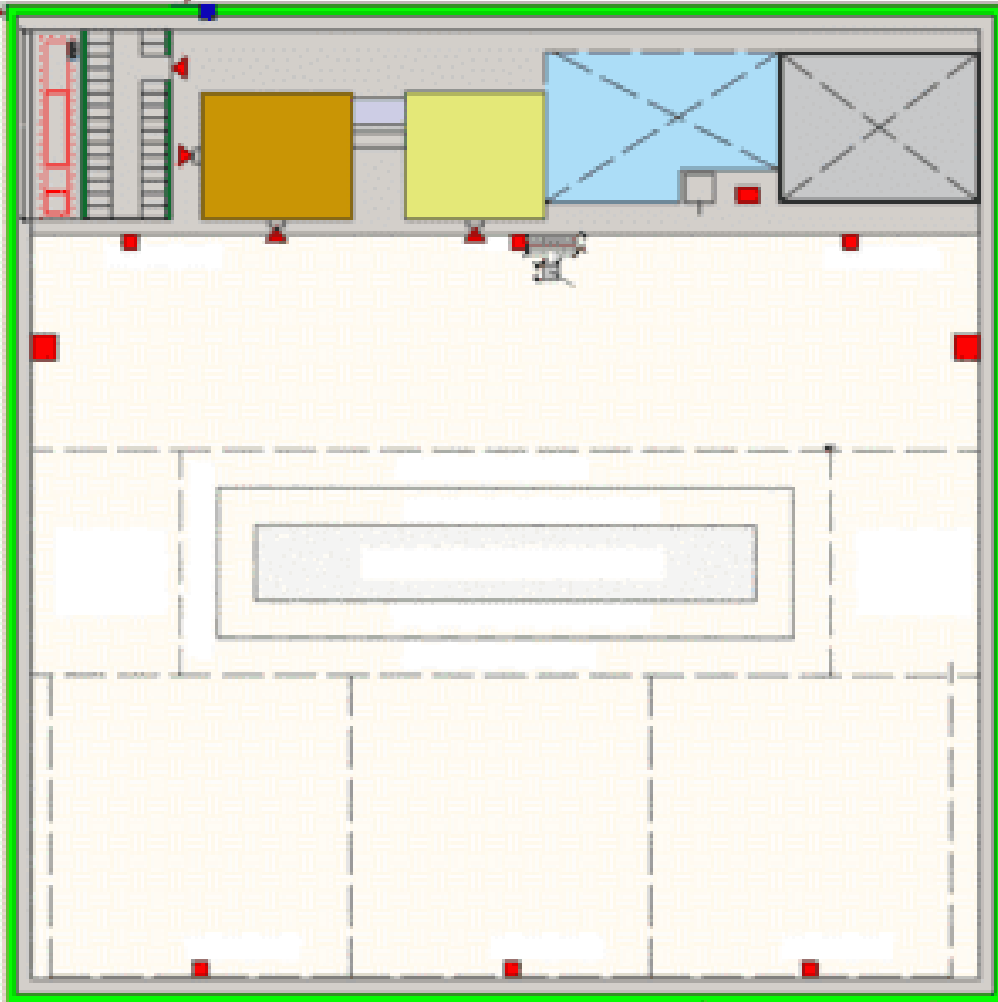
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Checked By: Ar. Aastha

Drone Technology Park, Sonipat



1 SITE AREAS (REFER Annexure 1.1.1.2)							
S.No	Spaces	Area/No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
1	Total Site area	-	200	200	40000	430140	N/A
	a Ground Coverage (All Built-up areas)	-			2473.32	26406.40000	N/A
	c Ground Coverage %				6.18%		N/A
2	Road Area(Circulation)	1.1				15,922.32	N/A
3	Main Pavement	1.2			5991,160.224	64481.29	N/A
4	Parking Zone	1.3	38	18	684	7387.2	N/A
5	Guard Room	1.13	3	3	9	97.2	9-10
6	High-voltage services(Electric sub station, DG set.)	1.3	34.5	4.5	155.25	1676.7	12-15
7	Admin and Inoculation centre	1.3	30	23	720	8100	12 from centre
8	Testing Zone	1.4	28	23	700	7560	16 from centre
9	Notified zone	1.9	40	30	1200	12960	20
10	D&T	1.14	6	6	36	388.8	45
11	Flying Zone(Complete)	1.2	-	-	28197	30427.6	Varies
12	Asphalt Road	1.2	100	13	1300	14000	N/A
13	Stepped sitting	1.3	30	3	30	324	4
14	Battery storage	1.7	3	3	25	270	10
15	Fuel Storage	1.8	3	3	25	270	10
16	Pots	1.3	3	3	9	97.2	8
17	Guard Washroom	1.16	2.7	1.6	4.32	46.656	9
18	Washroom	1.16	10.5	5.3	55.61	601.02	9



26.11.2024

Rev: 05

Drawn By: Suman

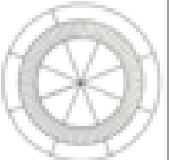
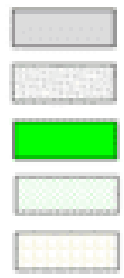
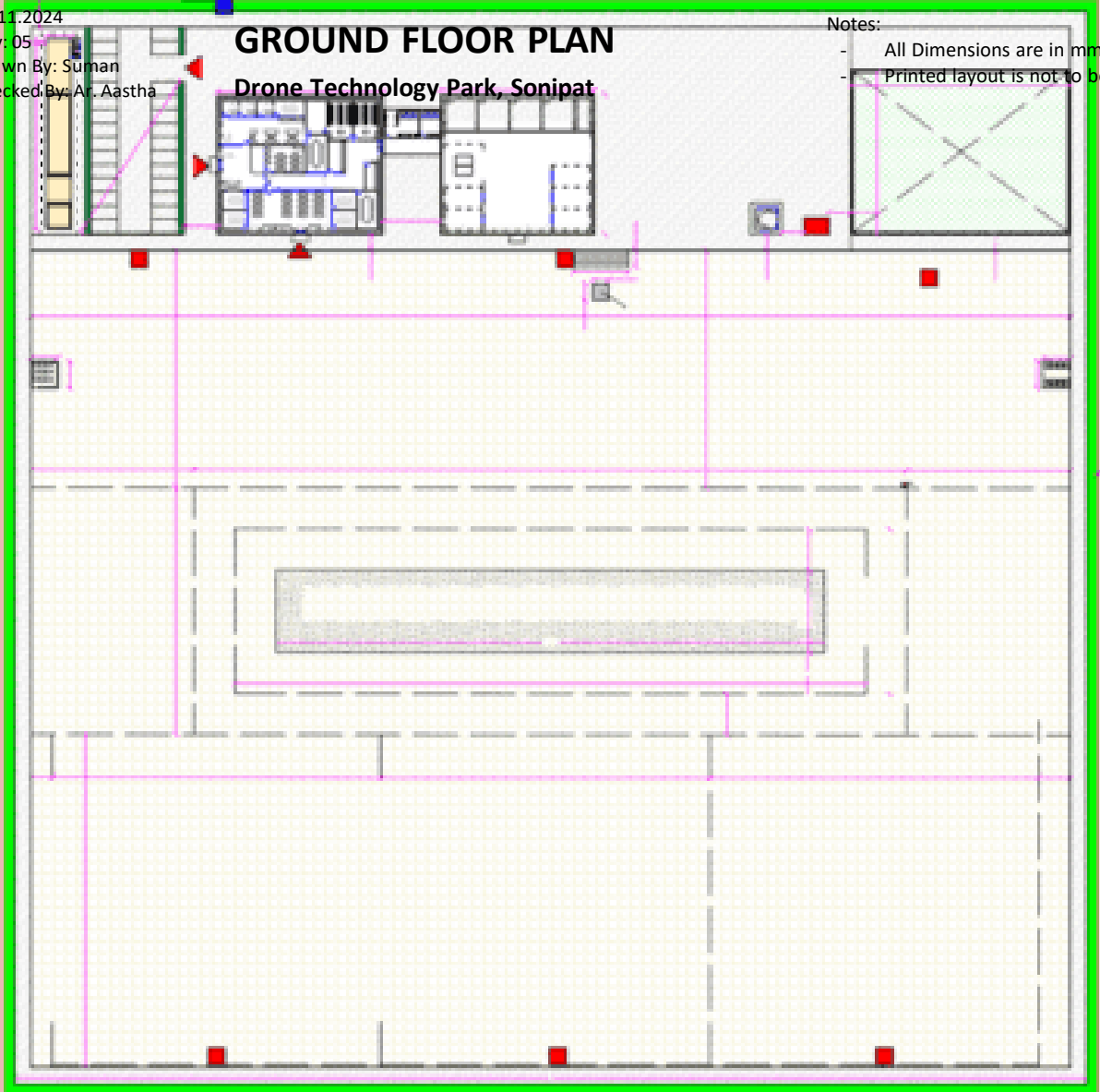
Checked By: Ar. Aastha

GROUND FLOOR PLAN

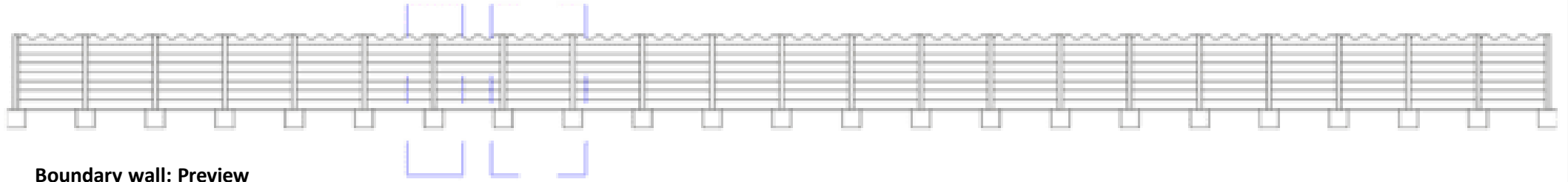
Drone Technology Park, Sonipat

Notes:

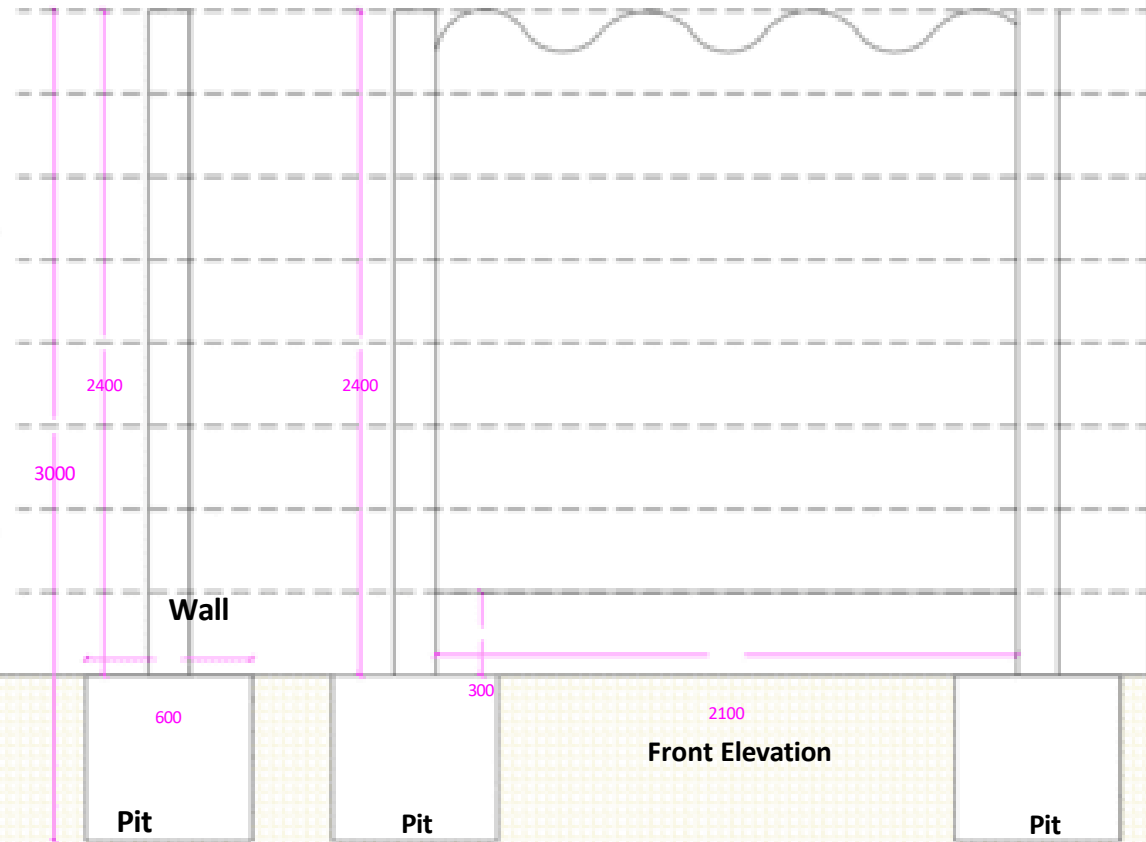
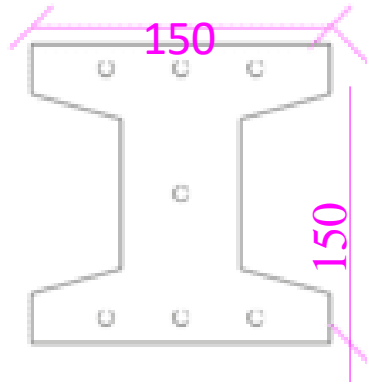
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ANNEXURE: 1.4



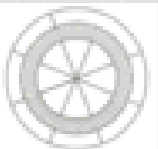
Boundary wall: Preview



P/L P.C.C. to jam the RCC precast pillars. (M15)
 Earth backfilling & levelling, Surfacing of pits of RCC precast pillars
 Construction of RCC precast boundary wall 6-8' high using precast RCC pillars, RCC precast 10" wide 2" thickness 7' long to the entire plot.
 RCC Precast Pre-Stressed Plank: (2100mm X 300mm X 50mm Plank with 4 bars of 3mm HTS Steel), Length - 7 feet
 RCC Precast Pre-Stressed Column: (150mm X 150mm Column with 7 bars of 3 mm HTS Steel), Height - 9 feet

Earth

Earth



BOUNDARY WALL DETAIL

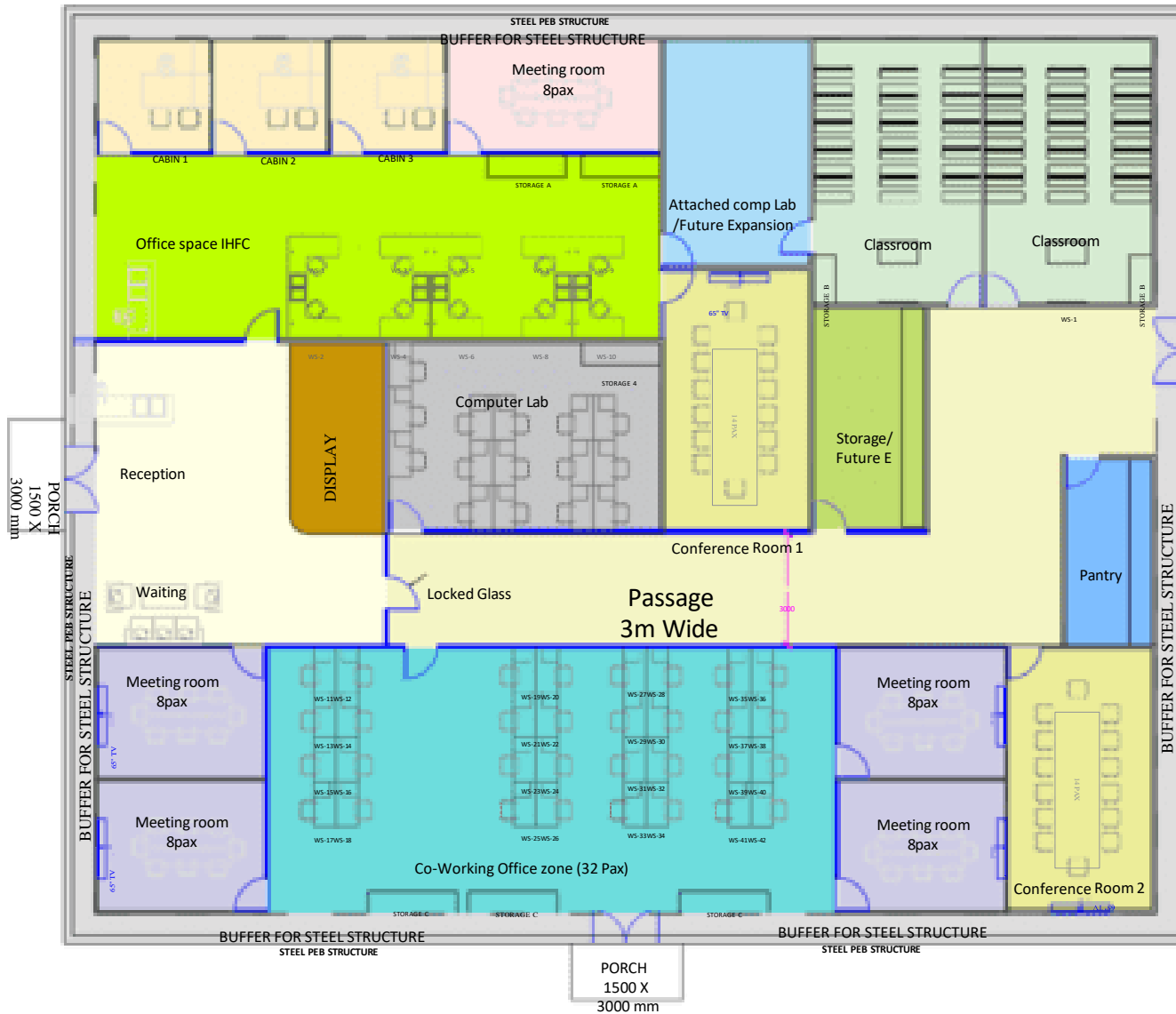
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.5



Sl. No	Rooms	Area	Area	Area	Area	Height (in Ft)
APPROXIMATE AREA AND TOTAL BUILDING VOLUME						
1	Main Reception & Waiting	8.3	8.3	88.7	752.76	10
2	Display area	1.56	5.17	14.886	147.87	10
3	Circulation and Passage	76.4	76.4	86.4	793.12	10
4	IHFC Office	0	0	0	0.00	10
a	Cabin 1	3.1	3.1	9.61	188.79	10
b	Cabin 2	3.1	3.1	9.61	188.79	10
c	Cabin 3	3.1	3.1	9.61	188.79	10
d	Meeting room 1 - 8pax	5.7	5.1	27.47	198.84	10
e	Workstation Zone	12	48	58.8	431.64	10
f	Conference Room 1 - 14 Pax	7.3	4.1	29.47	118.47	10
g	Computer Lab /Miscellaneous room	6.3	6.9	24.18	264.14	10
5	Countering office area	0	0	0	0.00	10
a	Meeting Room 1 - 8pax	4.6	3.3	16.1	173.88	10
b	Meeting Room 2 - 8pax	4.6	3.3	16.1	173.88	10
c	Meeting Room 3 - 8pax	4.6	3.3	16.1	173.88	10
d	Meeting Room 4 - 8pax	4.6	3.3	16.1	173.88	10
e	Conference Room 2 - 14 Pax	7.3	3.7	29.44	287.71	10
f	Workstation Zone	13.2	7.8	103.56	1288.47	10
6	Classroom 1	7	4.7	32.9	303.72	10
7	Classroom 2	7	4.7	32.9	303.72	10
8	Computer Lab - 13 Pax	7.5	5.2	39	421.35	10
9	Storage	6	3.1	21.6	206.88	10
10	Pantry	1.56	5.17	14.886	147.87	10

LEGEND

1. MAIN RECEPTION & WAITING DISPLAY AREA
2. CIRCULATION & PASSAGE
3. CABIN 1,2,3 IHFC ZONE
4. WORKSTATION ZONE
5. CONFERENCE ROOM 1,2 (14 PAX) COMPUTER LAB/MISCELLANEOUS ROOM MEETING ROOM 1, 2, 3
6. ,4, 5 (8 PAX) WORKSTATION ZONE
7. CLASSROOM 1,2
8. COMPUTER LAB
9. STORAGE PANTRY

26.11.2024
 Rev: 05
 Drawn By: Suman
 Checked By: Ar. Aastha

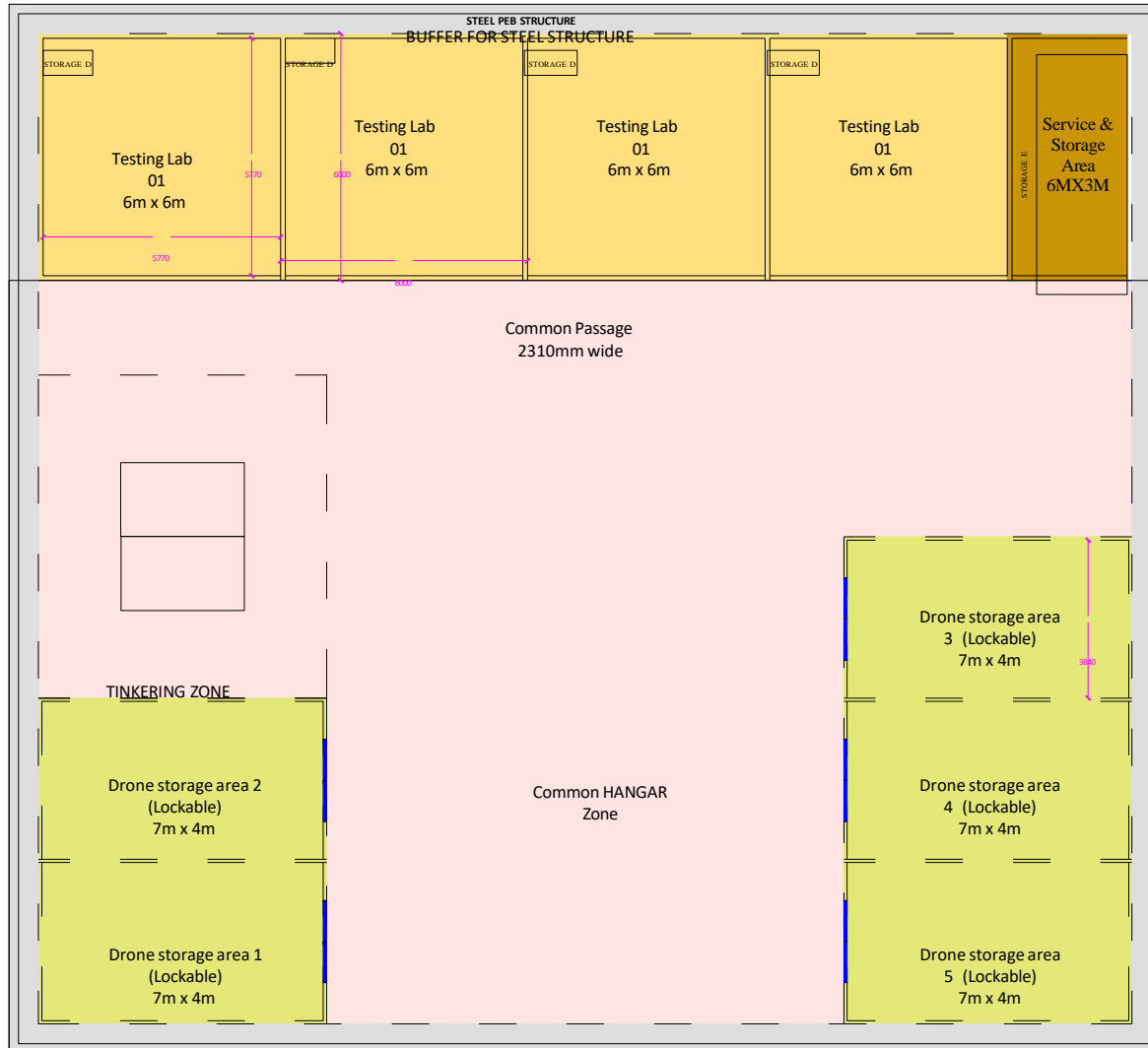
INCUBATION AND ADMINISTRATION BUILDING INTERIOR LAYOUT

Drone Technology Park, Sonipat

Notes:
 - All Dimensions are in mm
 - Printed layout is not to be scaled.



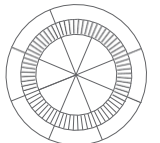
ANNEXURE: 1.6



1 SITE AREAS						
S.No	Spaces	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
1	Testing Lab 01	6	6	36	387.504	13
2	Testing Lab 02	6	6	36	387.504	13
3	Testing Lab 03	6	6	36	387.504	13
4	Testing Lab 04	6	6	36	387.504	13
5	Services and storage	6	3	18	193.752	13
6	Drone storage area 1	7	4	28	301.392	Full
7	Drone storage area 2	7	4	28	301.392	Full
8	Drone storage area 3	7	4	28	301.392	Full
9	Drone storage area 4	7	4	28	301.392	Full
10	Drone storage area 5	7	4	28	301.392	Full
11	Common Hangar zone	15.7	10.4	163.28	1757.54592	Full
12	Tinkering zone	7.8	7	54.6	587.7144	Full
13	Circulation and Passages	N/A	N/A	64.7	696.4308	Full

LEGEND

- 1. TESTING LAB 1,2,3,4
- 2. SERVICE & STORAGE
- 3. DRONE STORAGE 1,2,3,4,5
- 4. TINKERING ZONE COMMON
- 5. HANGER ZONE CIRCULATION &
- 6. PASSAGE



TESTING LAB INTERIOR LAYOUT

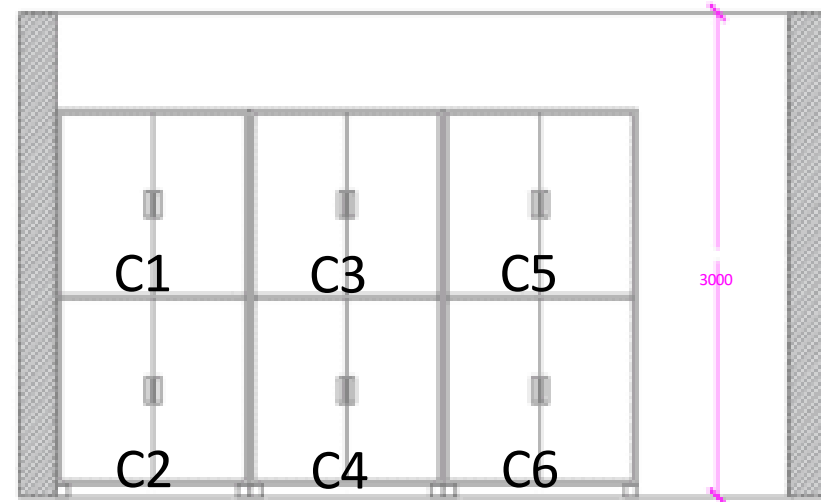
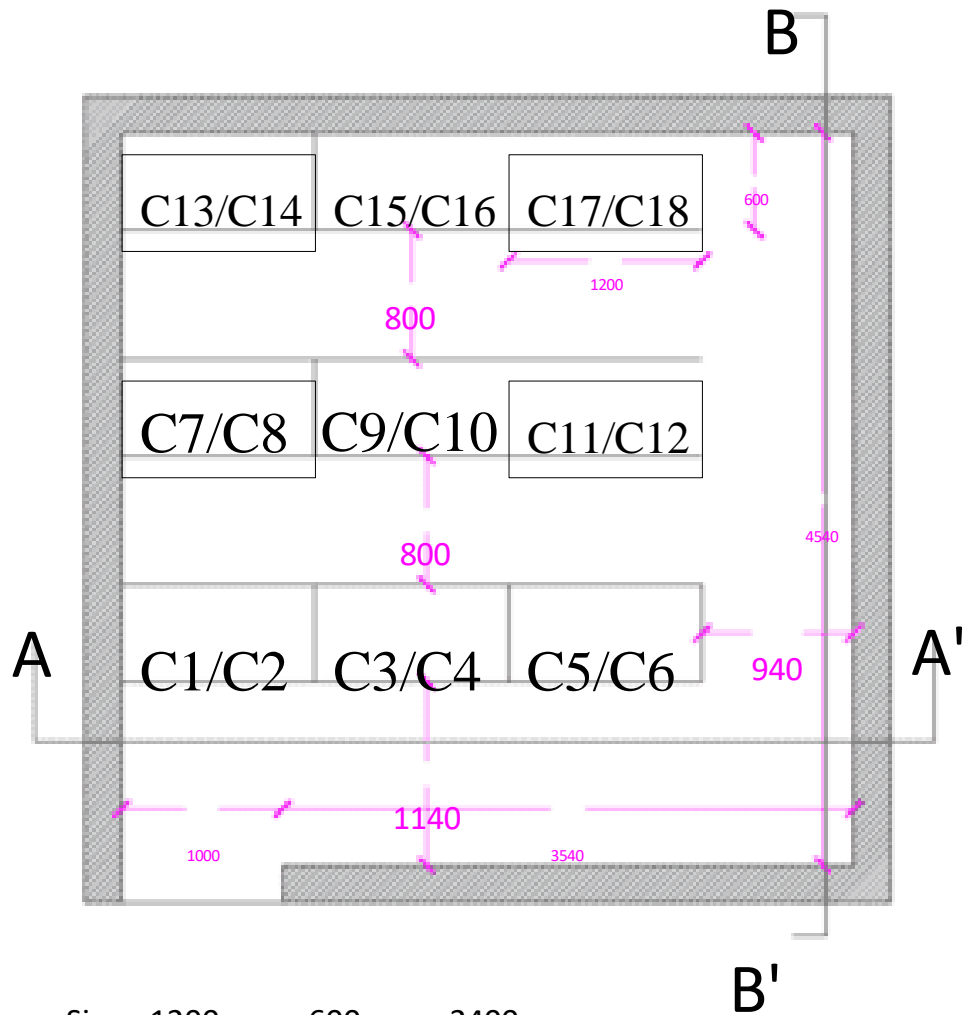
Drone
Technology Park,
Sonipat

Notes:

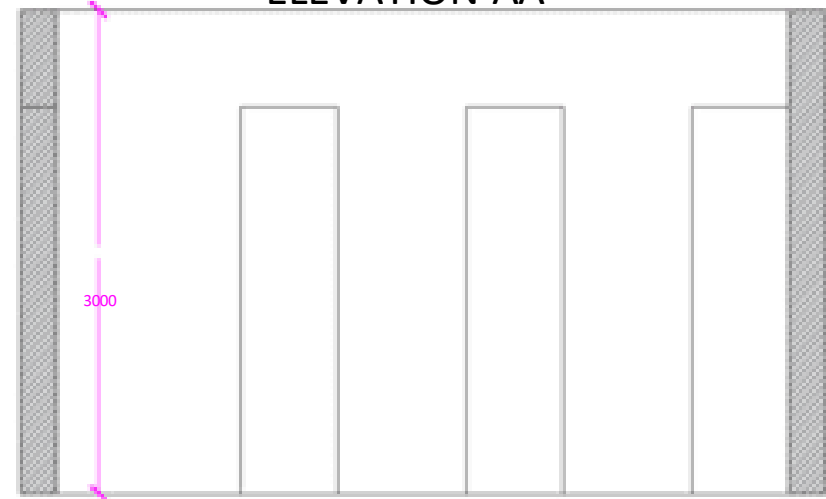
- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.7



ELEVATION AA'



ELEVATION BB'

Size - 1200mm x 600mm x2400mm
 Divided by 2 sections of : 1200x600x1200 each up and down.
 25mm Thick Prelaminate Particle
 E1 Grade Board with PVC edge banding
 table as per referal Image
 Provision of Lock



BATTERY STORAGE INTERIOR LAYOUT

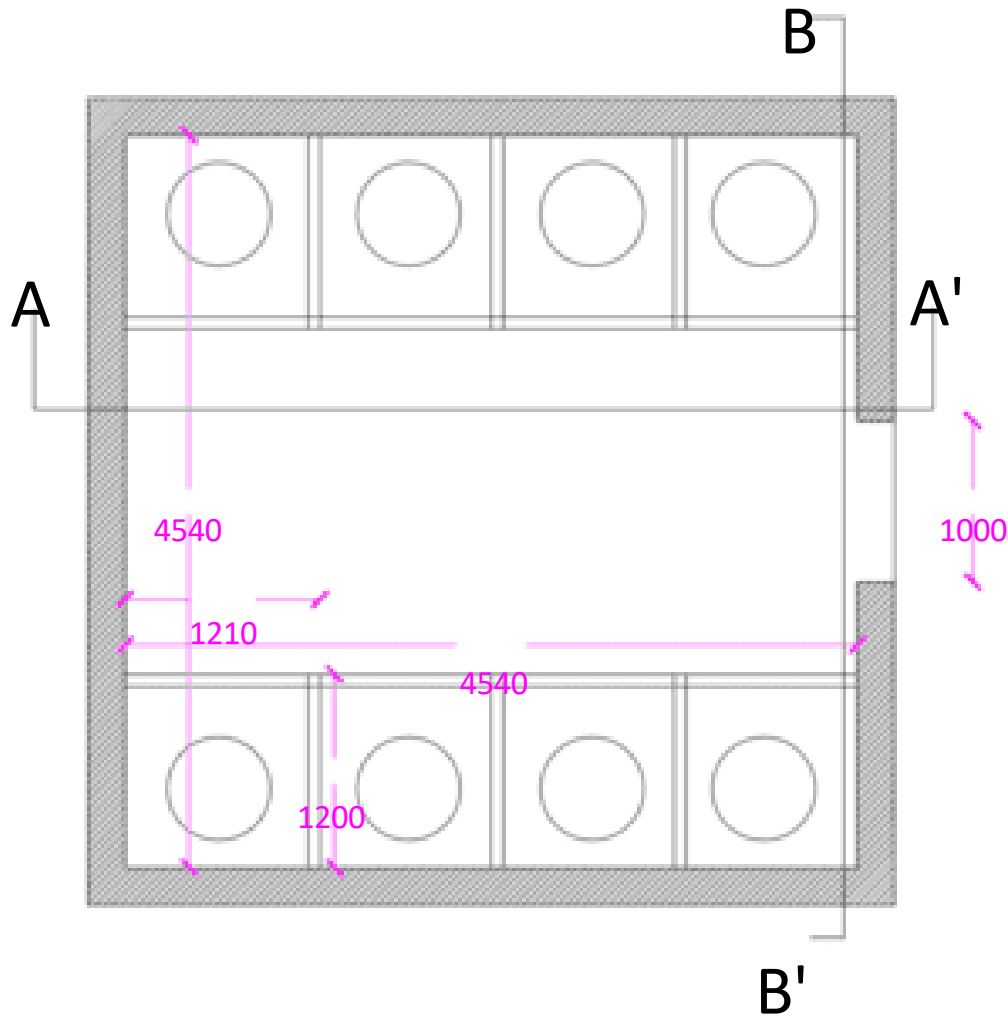
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.8



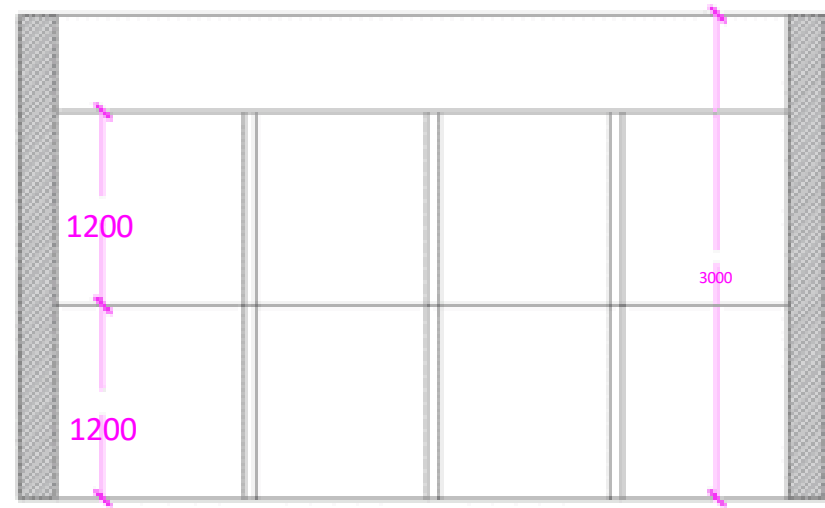
Size - 5000 x 5000mm

Provision of single stepped entry, at a raised level of 450mm from GL.

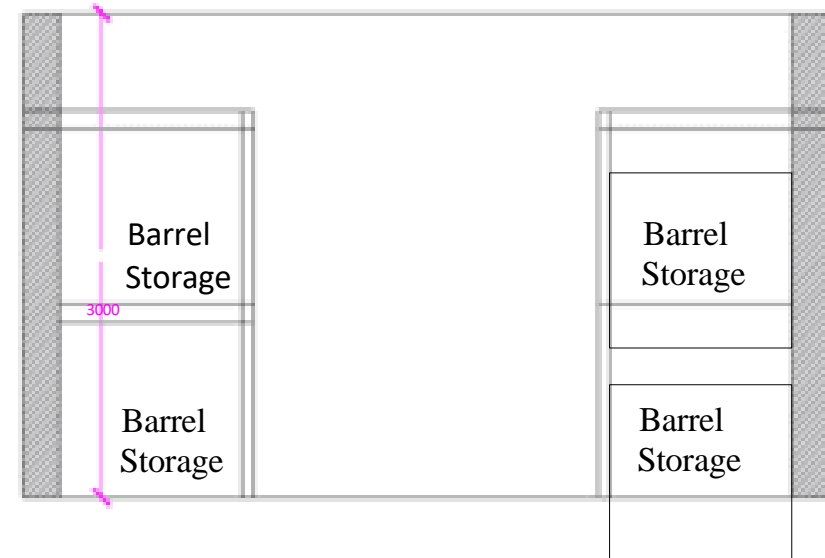
1 Door and 1 Window opening for ventilation

Creation of brick/cement slabs for keeping the barrels.

Total 16 Barrel of Dia - 620mm



ELEVATION AA'



ELEVATION BB'



FUEL STORAGE INTERIOR LAYOUT

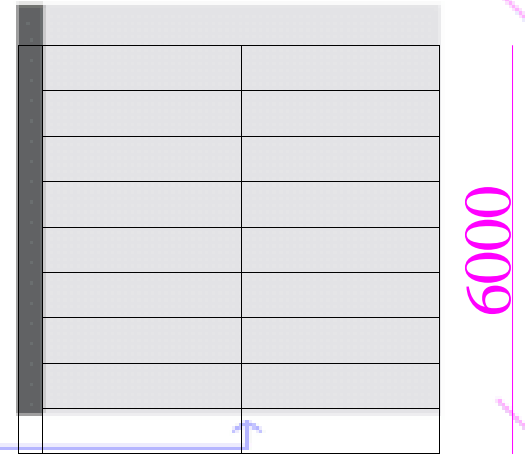
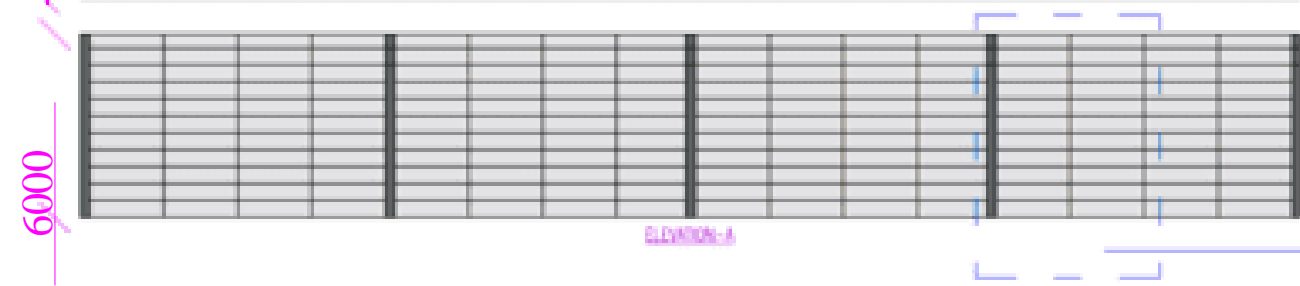
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.9



Net details- Steel net 3mm gauge
No. of poles- 25, finxing of poles; at a distance of 20ft each.

DETAIL ZOOMED



NETTED ZONE/TRAI NING ZONE

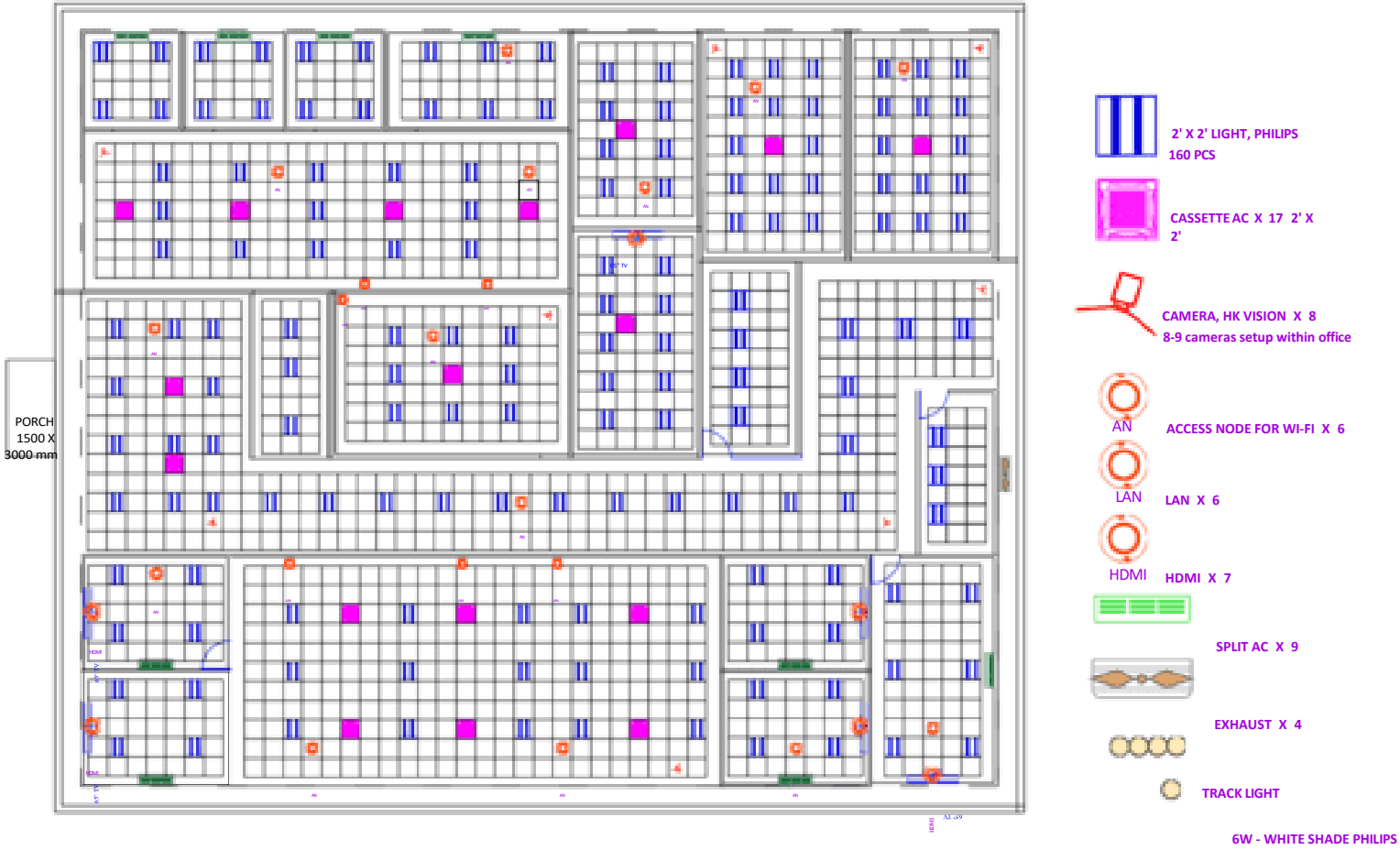
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.10



26.11.2024
 Rev: 05
 Drawn By: Suman

Checked By: Ar. Aastha

INCUBATION AND ADMINISTRATION BUILDING

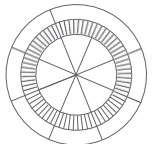
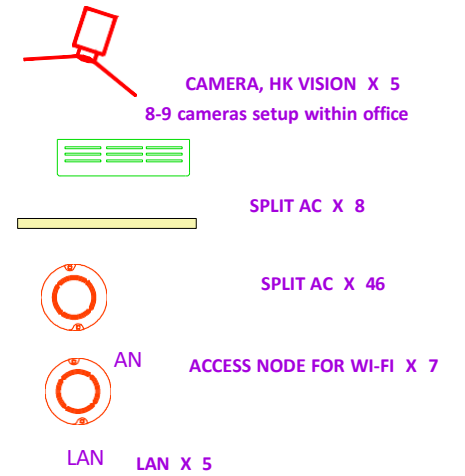
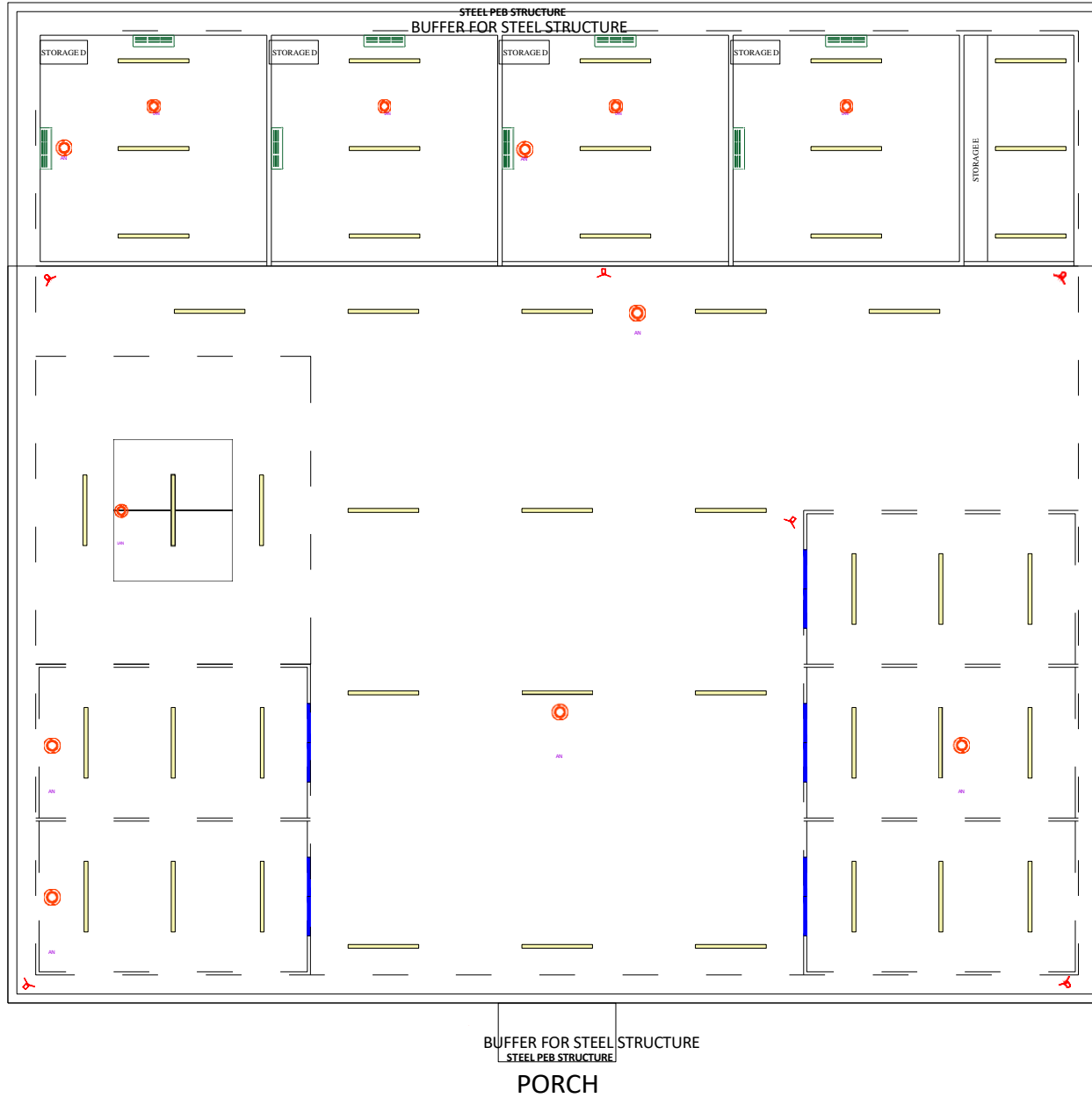
FALSE CEILING LAYOUT

Drone Technology Park, Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.
- The FC layout is tentative and can be revised as per site conditions

ANNEXURE: 1.10A



TESTING LAB CEILING LAYOUT

Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.11



3D Views

**Drone
Technology Park,
Sonipat**

Notes:

- These views are for reference

ANNEXURE: 1.11A



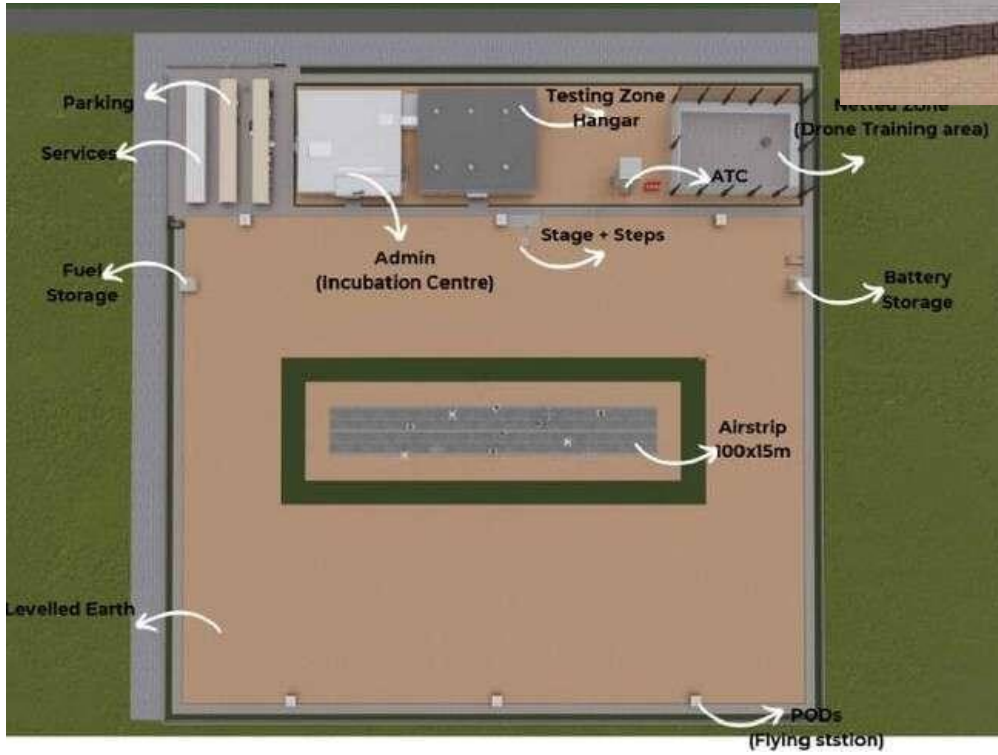
3D Views

**Drone
Technology Park,
Sonipat**

Notes:

- These views are for reference

ANNEXURE: 1.11B



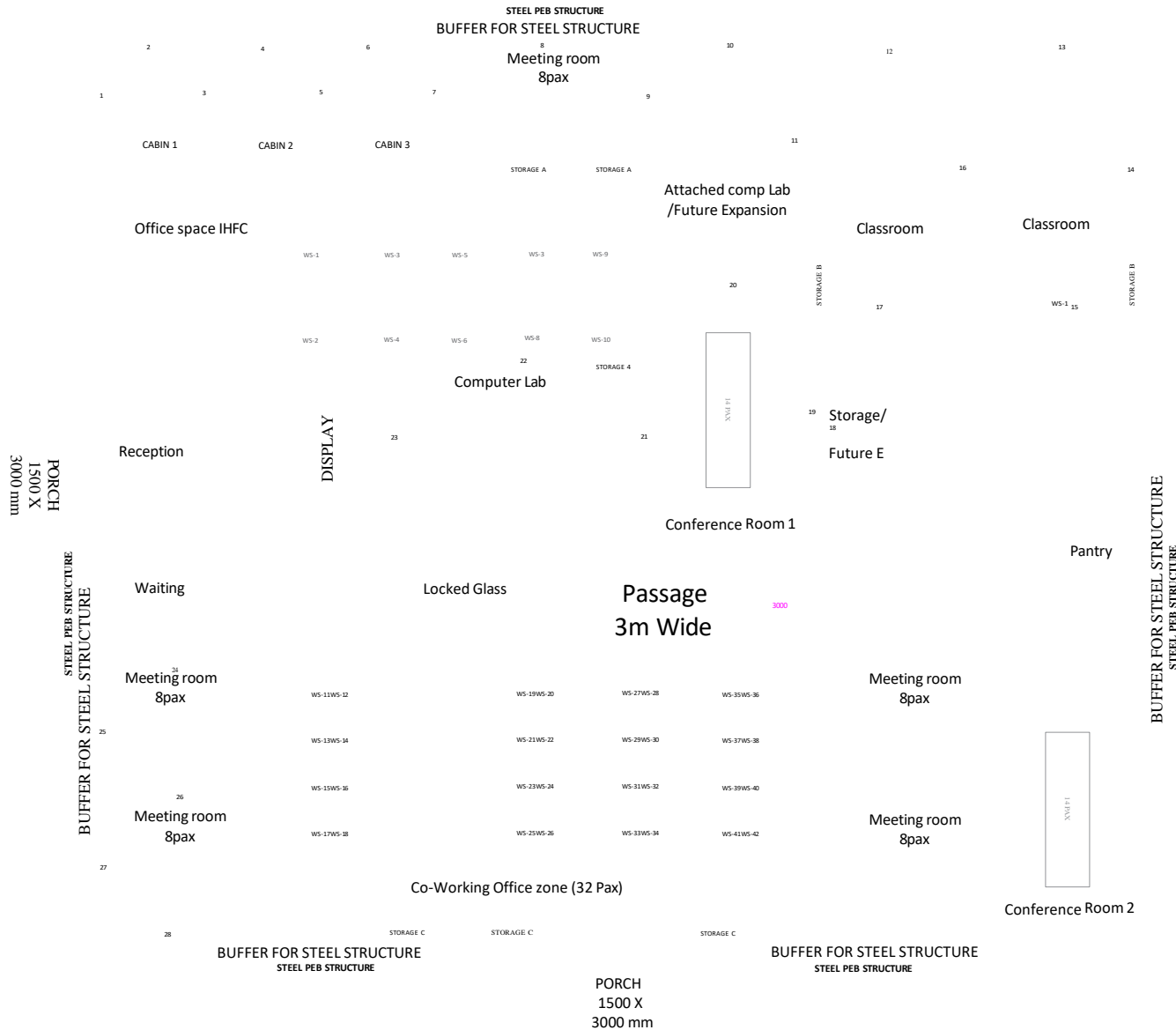
3D Views

**Drone
Technology Park,
Sonipat**

Notes:

- These views are for reference

ANNEXURE: 1.12



GLASS

Doors: 30

- Partition 1: 15000mm x 3000mm 10mm Glass
 - Partition 2: 4630mm x 3000mm 10mm Glass
 - Partition 3: 14550mm x 3000mm 10mm Glass
 - Partition 4: 15430mm x 3000mm 10mm Glass
 - Partition 5: 7150mm x 3000mm 10mm Glass
 - Partition 6: 7150mm x 3000mm 10mm Glass
- ATC glass - 10mm toughened glass for ATC - 132 sq ft

BISON/CEMENT BOARD

Aluminium Frame with fixing of Bison/Cement Board Fixed with screw in aluminium frame upto

Height of 10' Imbedded in floor

Partition 1,3,5,7: 6000mm x 3000mm

Partition 2,4,6: 3005mm x 3000mm

Partition 7: 5762mm x 3000mm

Partition 8: 4025mm x 3000mm

Partition 9,11: 6260mm x 3000mm

Partition: 12,13,15,17: 3005mm x 3000mm

Partition 10: 4612mm x 3000mm

Partition 14, 16: 7264mm x 3000mm

Partition 18, 19: 5968mm x 3000mm

Partition 19: 4139mm x 3000mm

Partition 20,22: 5135mm x 3000mm

Partition 21: 10395mm x 3000mm

Partition 24,26,28,29,30,31: 4575mm x 3000mm

Partition 25,27: 4612mm x 3000mm

Partition 32, 33: 7210mm x 3000mm

Partition 34,35: 3987mm x 3000mm

Partition 36: 5020mm x 3000mm

LEGEND

- 1. MAIN RECEPTION & WAITING
- 2. DISPLAY AREA

Notes:

= All Dimensions are in mm
Printed layout is not to be scaled.



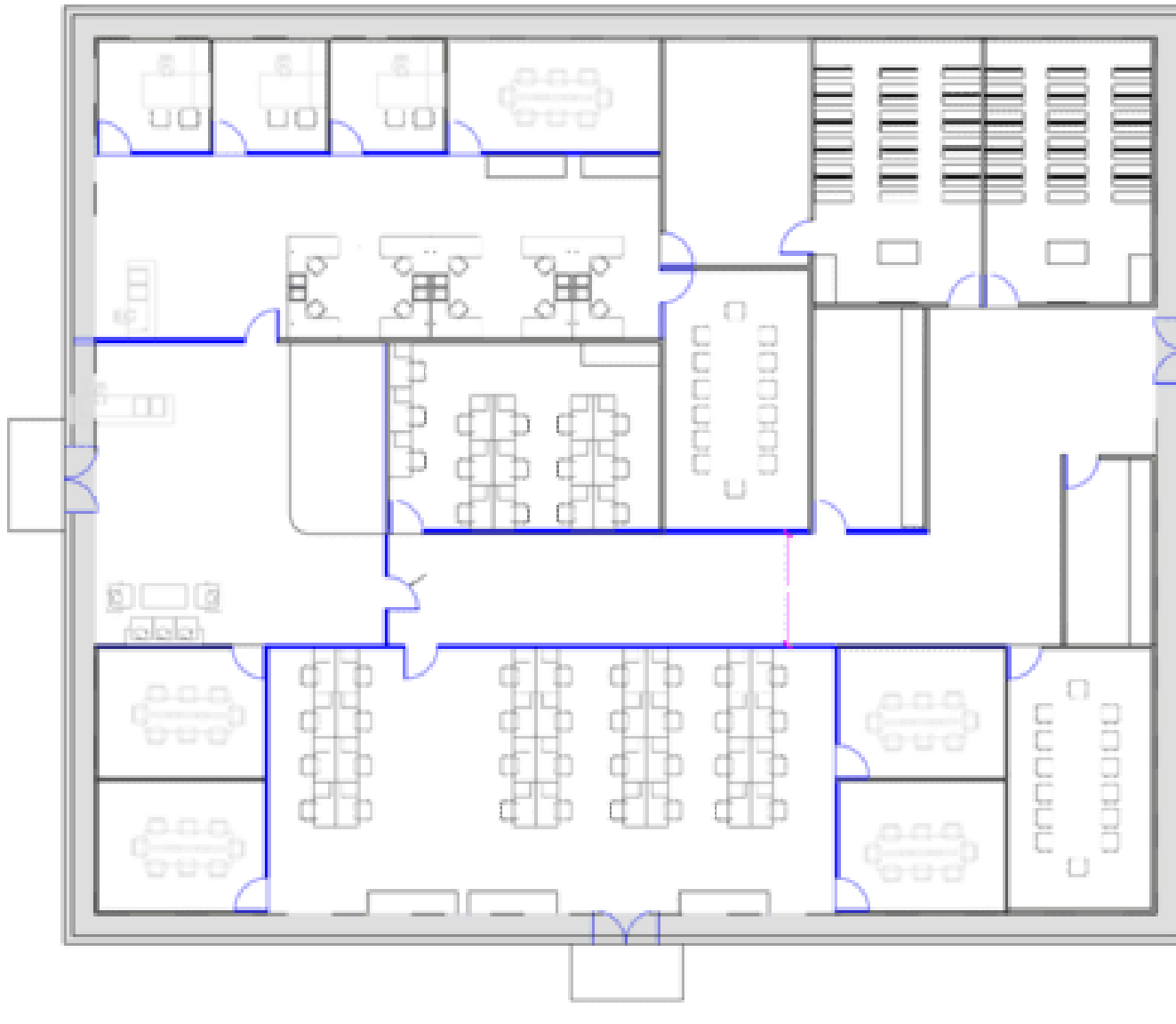
Checked By: Ar. Aastha

GLASS/BISON PARTITION

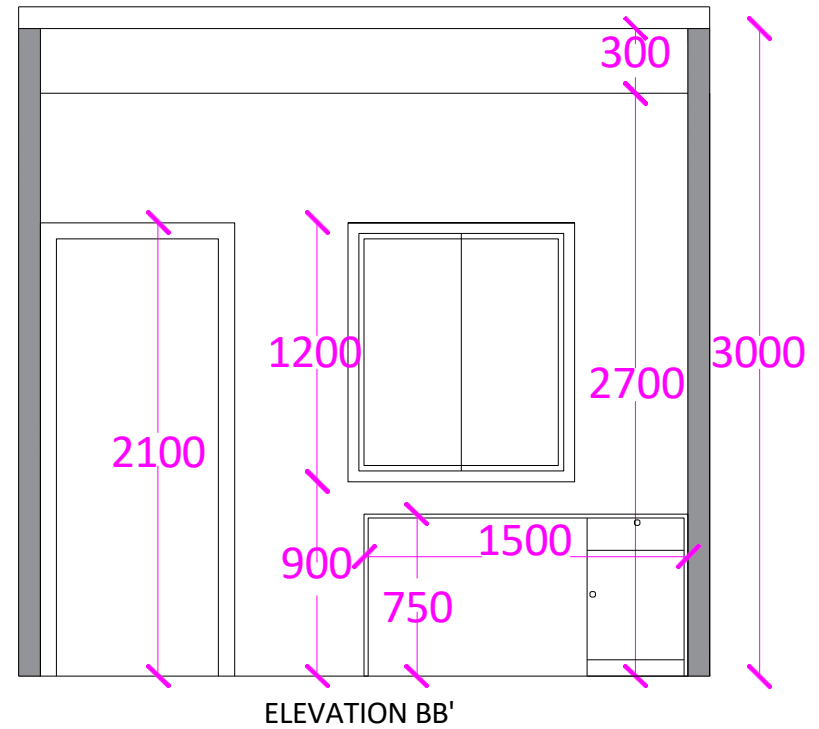
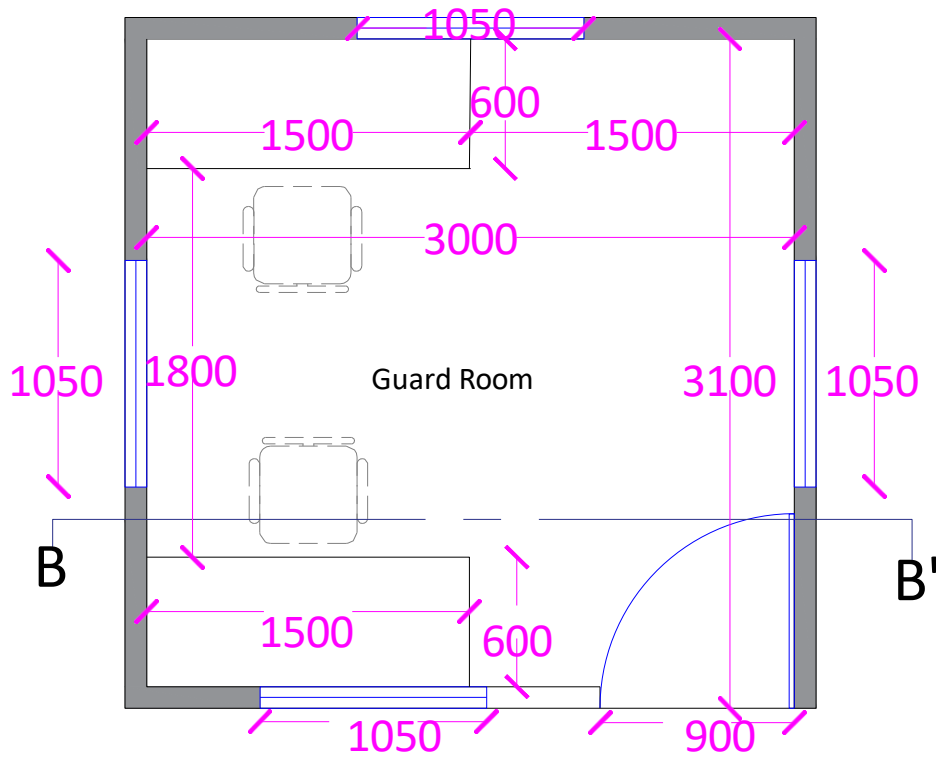
Drone Technology Park, Sonipat



S 35



ANNEXURE: 1.13



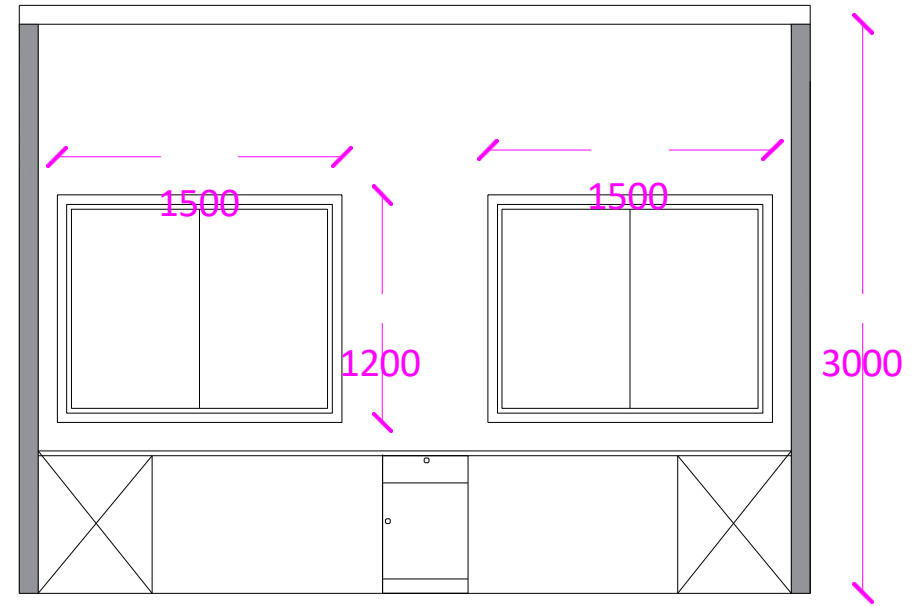
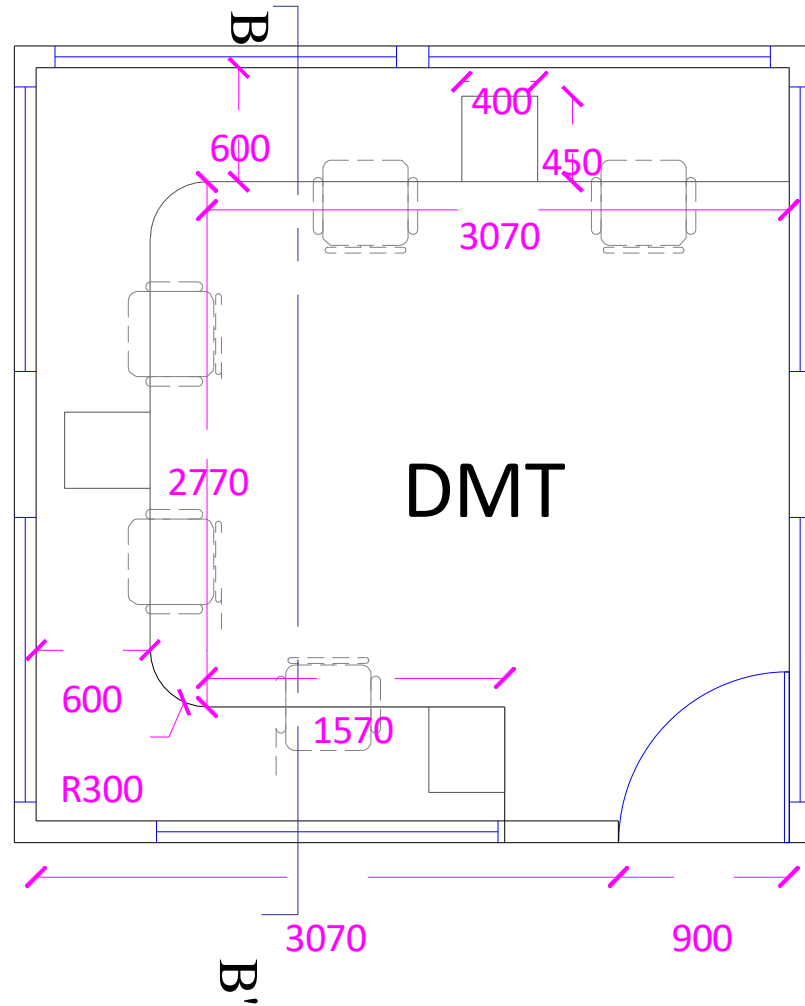
26.11.2024
 Rev: 05
 Drawn By: Suman
 Checked By: Ar. Aastha

GUARD ROOM DETAIL
 Drone Technology Park, Sonipat

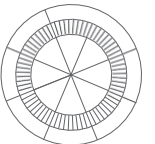
- Notes:
- All Dimensions are in mm
 - Printed layout is not to be scaled.



ANNEXURE: 1.14



ELEVATION BB'



DMT DRONE MONITORING TOWER

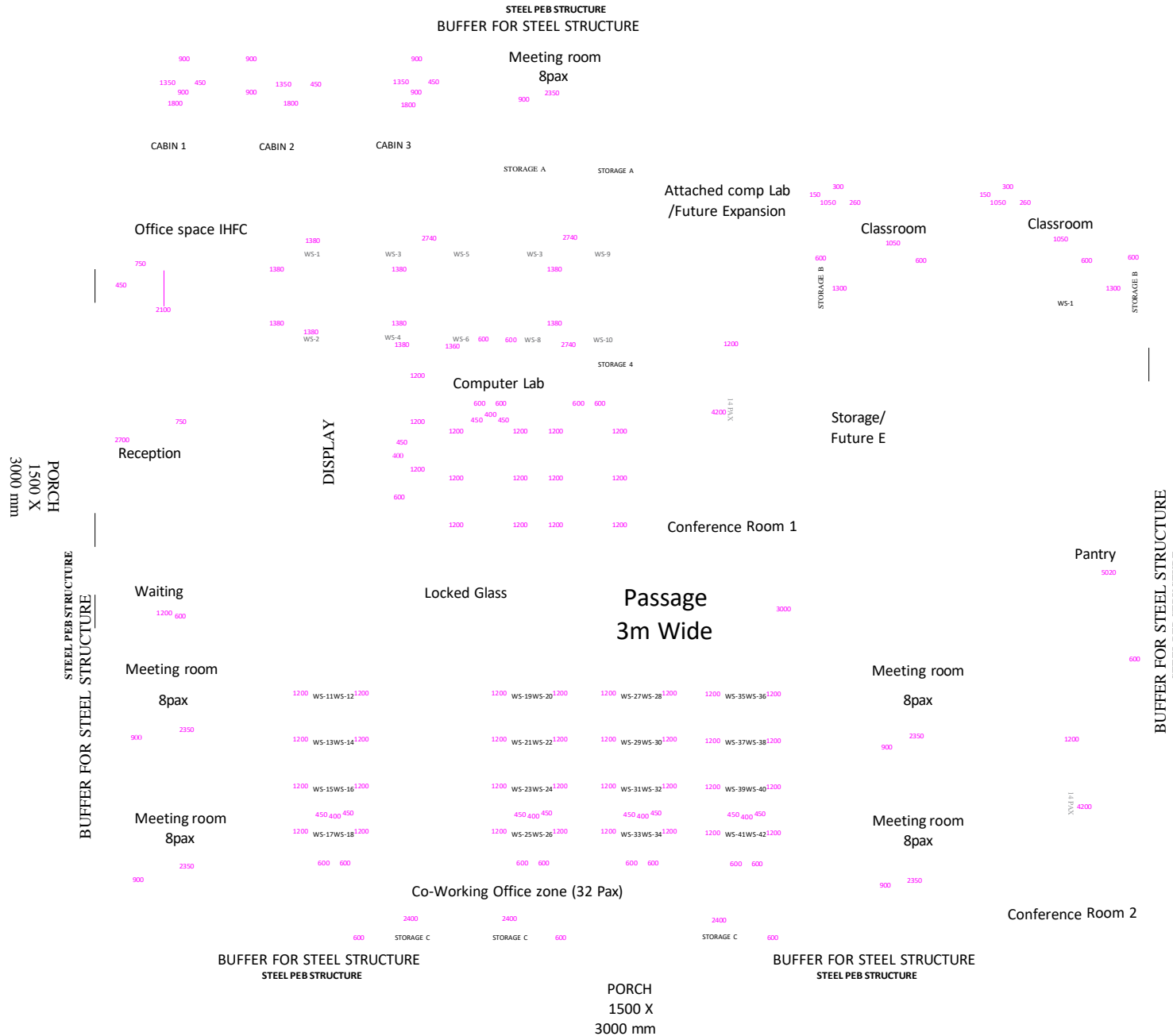
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.15

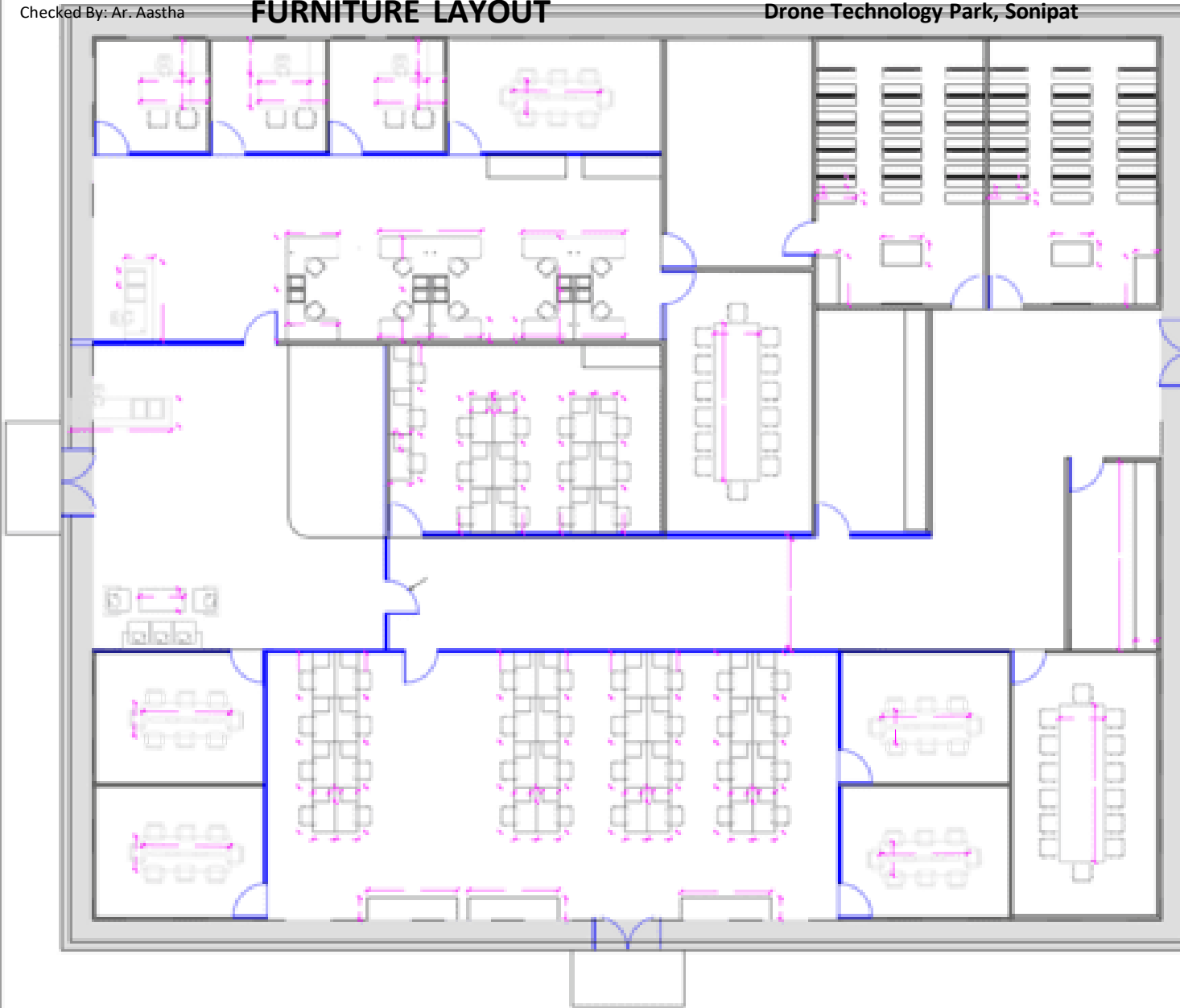


FURNITURE TABLE

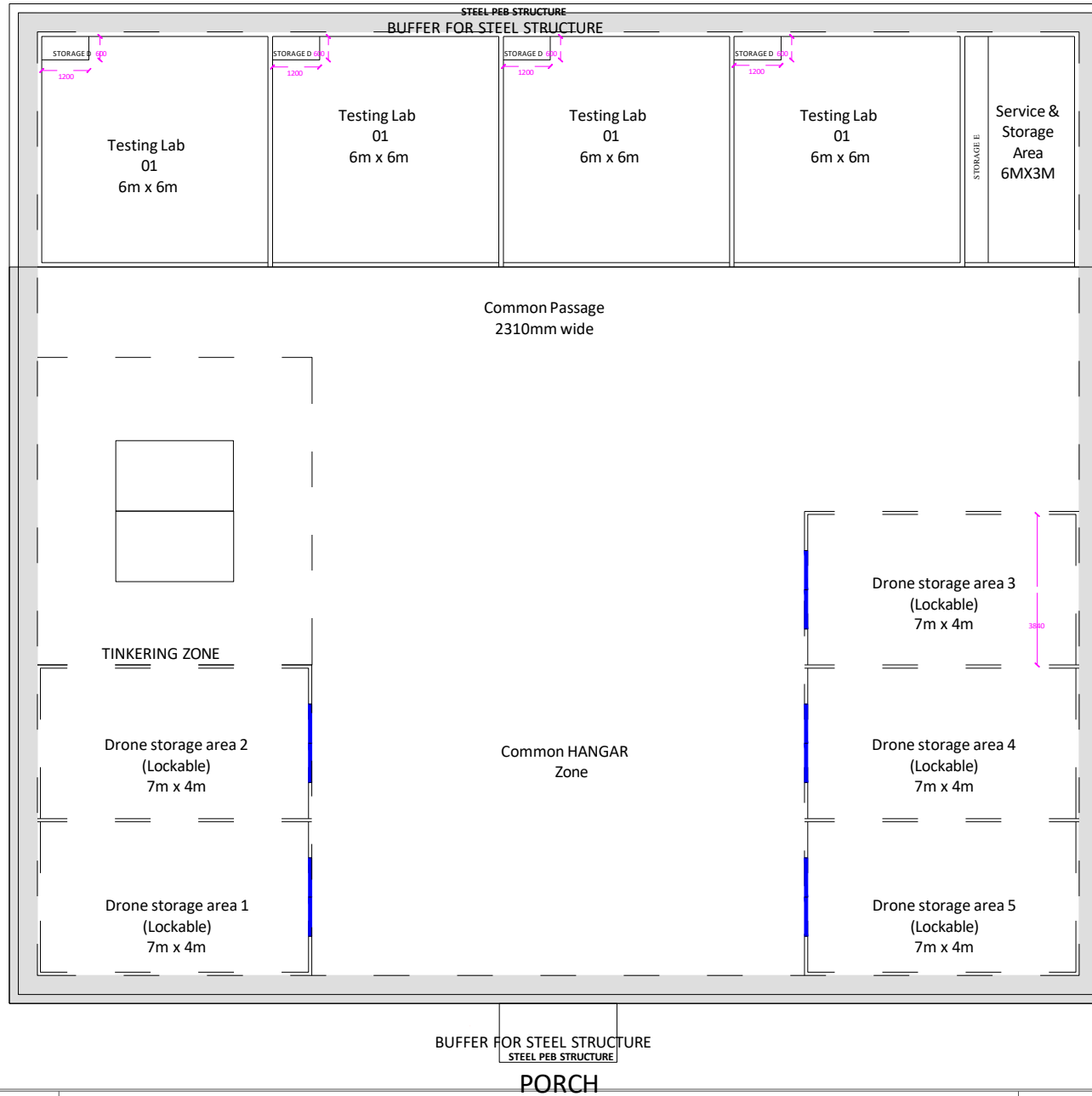
- No. of workstations - 32
(1200mm x 600mm)
- L-Shape Workstation - 10
- No. of Pedestals - 57
- No of Reception - 2
- Cabin Table - 3
- Cabin Chair - 3
- Conference Table (14 Pax) - 2
- Meeting Table (8 Pax) - 5
- Conference/Meeting Chairs - 68
- Classroom Benches - 30
- Classroom Main table - 2
- Computer Lab Table - 15
- Office chair - 68
- Storage A - 2
- Storage B - 2
- Storage C - 3



FURNITURE LAYOUT



ANNEXURE: 1.15A

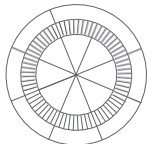


FURNITURE TABLE

Storage D - 4

Storage E - 1

Tinkering zone table - 2



TESTING LAB ZONE INTERIOR LAYOUT

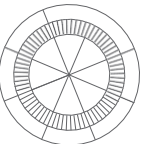
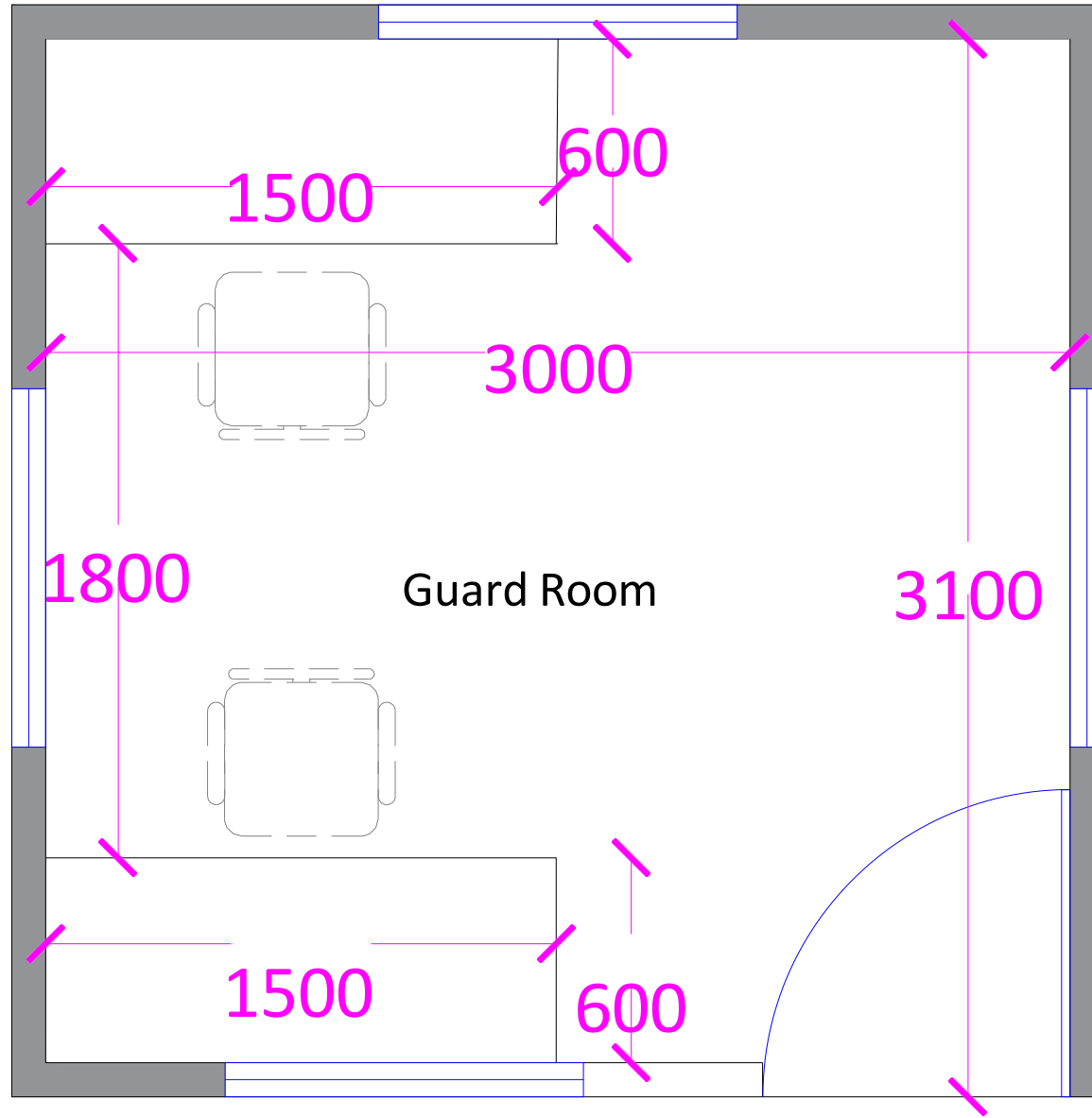
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.15B



GUARD ROOM FURNITURE LAYOUT

Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



COMMON WASHROOM LAYOUT

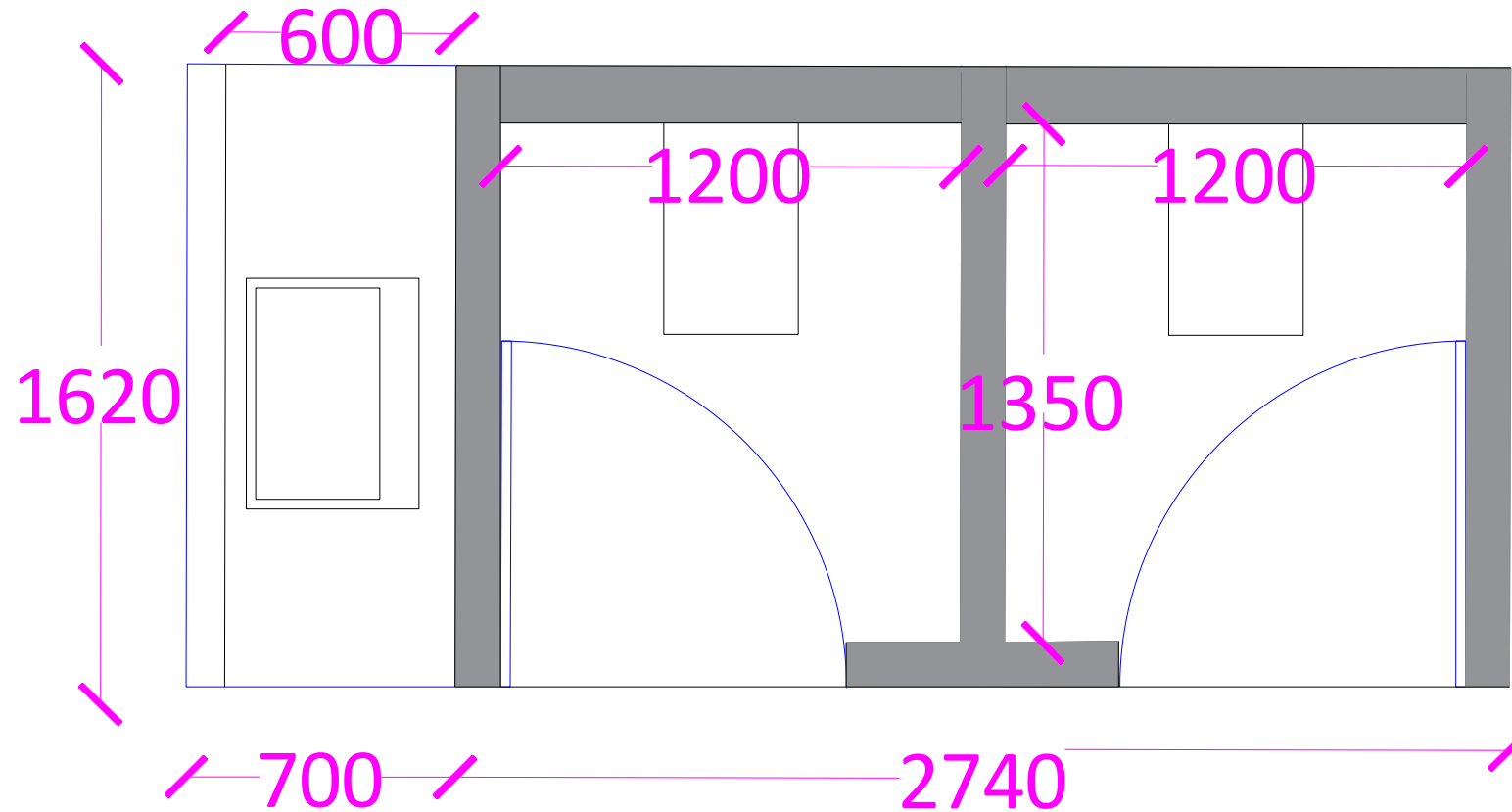
Drone
Technology Park,
Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.16A



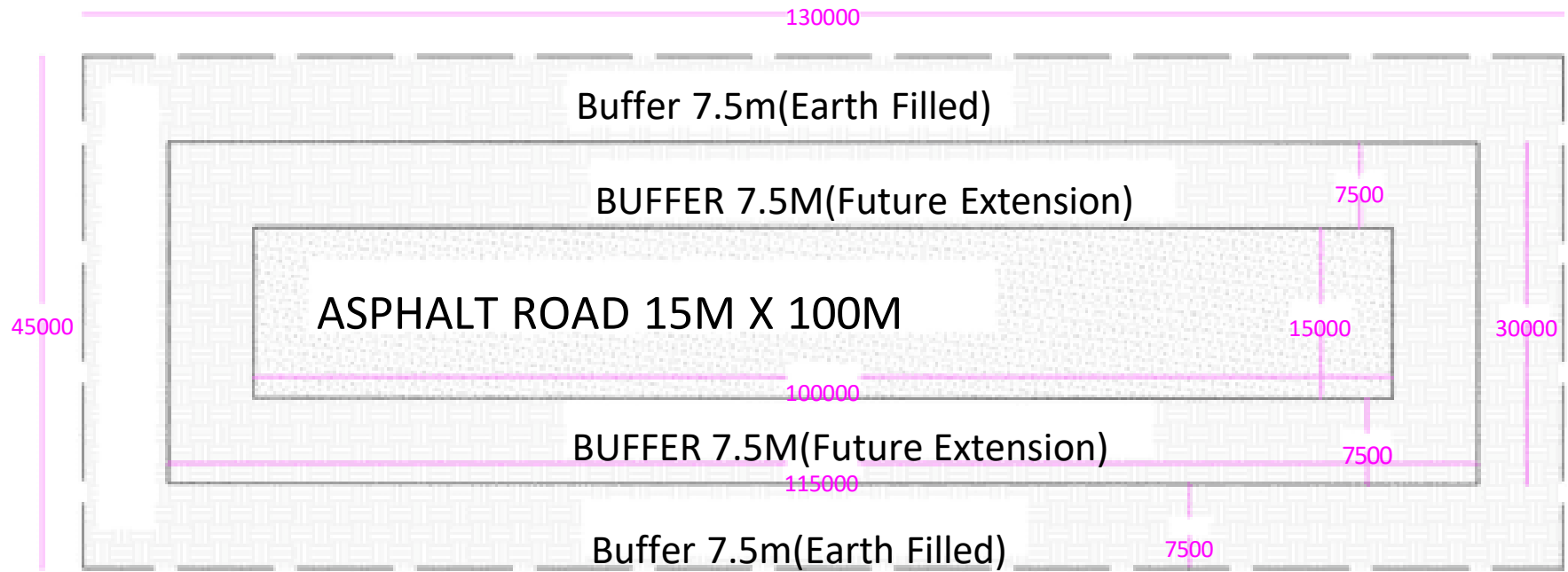
26.11.2024
Rev: 05
Drawn By: Suman
Checked By: Ar. Aastha

GUARD WASHROOM LAYOUT
Drone Technology Park, Sonipat

- Notes:
- All Dimensions are in mm
 - Printed layout is not to be scaled.

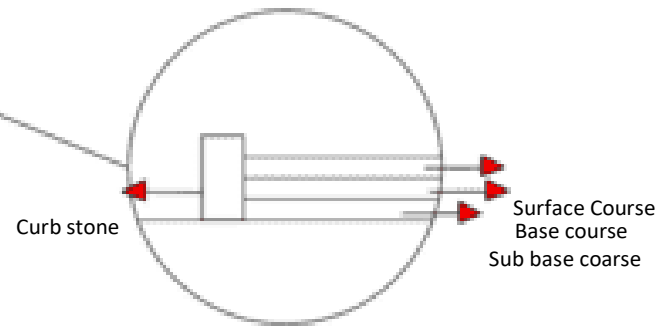


ANNEXURE: 1.17



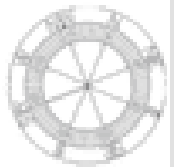
A

Sectional elevation of Asphalt road



Detail at A

Asphalt road (100 mtr x 15mtr) - preparation of air stip for drone having the following specification:
WBM of 6" thickness with 40 mm boulder with mohram of Dadri
DBM - 40 mm to 50 mm thickness with 4.5% bitumin VG - 30
Tack Coat with VG 10(Emulsion)
Seal Coat with VG 10 and Dust



26.11.2024
Rev: 05
Drawn By: Suman
Checked By: Ar. Aastha

ASPHALT ROAD DETAILS

Drone Technology Park, Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.

Buffer 7.5m(Earth Filled)

ANNEXURE CATEGORY 2: DOCUMENTS	
TITLE	ANNEXURE NO.
Abstract of Project costs (2.1 TO 2.8)	2
Area and Dimensions Chart	2.1
Detailed Item of Works for Civil Scope	2.2
Detailed Item of Works for Steel Fabrication, Installation etc	2.3
Detailed Scope for Electrical works	2.4
Detailed Item of Works for Fire and Emergency services	2.5
Detailed Item of Works for Interior works and Finishes	2.6
Detailed Item of Works for Water supply/Plumbing etc	2.7
Detailed Item of Works for Equipment	2.8
List of Makes and Finishes	2.9

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	1	Total Site area	-	200	200	40000	430560	N/A
		b Ground Coverage (All Built-up areas)	-			2453.22	26406.46008	N/A
		c Ground Coverage %				6.13%		N/A
	2	Road Area(Circulation)	1.1				15,922.32	N/A
	3	Main Paver areas	1.2			5991.108324	64488.29	N/A
	4	Parking Zone	1.2	38	18	684	7387.2	N/A
	5	Guard Room	1.13	3	3	9	97.2	9-10
	6	High side services(Electric sub station, DG set,)	1.2	34.5	4.5	155.25	1676.7	12-15
	7	Admin and Incubation centre	1.5	30	25	750	8100	13 from centre
	8	Testing Zone	1.6	28	25	700	7560	16 from centre
	9	Netted zone	1.9	40	30	1200	12960	20
	10	DMT	1.14	6	6	36	388.8	45
	11	Flying Zone(Complete)	1.2	-	-	28197	304527.6	Varies
	12	Asphalt Road	1.2	100	15	1500	16200	N/A
	13	Stepped sitting	1.2	10	3	30	324	4
	14	Battery storage	1.7	5	5	25	270	10
	15	Fuel Storage	1.8	5	5	25	270	10
	16	Pods	1.2	3	3	9	97.2	8
	17	Guard Washrooms	1.16	2.7	1.6	4.32	46.656	9
	18	Washroom	1.16	10.5	5.3	55.65	601.02	9
2 ADMINISTRATION AND INCUBATION CENTRE (REFER Annexure 1.1,1.2)								
	1	Main Reception & Waiting	1.3	8.5	8.2	69.7	752.76	10

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	2	Display area	1.3	2.56	5.35	13.696	147.92	10
	3	Circulation and Passages	1.3	N/A	N/A	86.4	933.12	10
	4	IHFC Office	1.3	0	0	0	0.00	10
	a	Cabin 1	1.3	3.1	3.1	9.61	103.79	10
	b	Cabin 2	1.3	3.1	3.1	9.61	103.79	10
	c	Cabin 3	1.3	3.1	3.1	9.61	103.79	10
	d	Meeting room 1 - 8pax	1.3	5.7	3.1	17.67	190.84	10
	e	Workstations Zone	1.3	12	4.9	58.8	635.04	10
	f	Conference Room 1 - 14 Pax	1.3	7.2	4.1	29.52	318.82	10
	g	Computer Lab/ Miscellaneous room	1.3	6.2	3.9	24.18	261.14	10
	5	Co-working office zone	1.3	0	0	0	0.00	10
	a	Meeting Room 1 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	b	Meeting Room 2 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	c	Meeting Room 3 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	d	Meeting Room 4 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	e	Conference Room 2 - 14 pax	1.3	7.2	3.7	26.64	287.71	10
	f	Workstations Zone	1.3	15.2	7.8	118.56	1,280.45	10
	6	Classroom 1	1.3	7	4.7	32.9	355.32	10
	7	Classroom 2	1.3	7	4.7	32.9	355.32	10
	8	Computer Lab - 15 Pax	1.3	7.5	5.2	39	421.20	10
	9	Storage	1.3	6	3.1	18.6	200.88	10
	10	Pantry	1.3	2.56	5.35	13.696	147.92	10
3 TESTING LAB ZONE								

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	1	Testing Lab 01		6	6	36	387.504	13
	2	Testing Lab 02		6	6	36	387.504	13
	3	Testing Lab 03		6	6	36	387.504	13
	4	Testing Lab 04		6	6	36	387.504	13
	5	Services and storage		6	3	18	193.752	13
	6	Drone storage area 1		7	4	28	301.392	Full
	7	Drone storage area 2		7	4	28	301.392	Full
	8	Drone storage area 3		7	4	28	301.392	Full
	9	Drone storage area 4		7	4	28	301.392	Full
	10	Drone storage area 5		7	4	28	301.392	Full
	11	Common Hangar zone		15.7	10.4	163.28	1757.54592	Full
	12	Tinkering zone		7.8	7	54.6	587.7144	Full
	13	Circulation and Passages		N/A	N/A	64.7	696.4308	Full
4 DMT								
	1	Inner viewing chamber with workstation provision		4.2	4.2	17.64	190.512	8
	2	Viewing Gallery Area		N/A	N/A	18.28	197.424	Open to sky
5 BATTERY STORAGE								
	1	Battery storage 1		1.2	0.6	0.72	7.776	4
	2	Battery storage 2		1.2	0.6	0.72	7.776	4
	3	Battery storage 3		1.2	0.6	0.72	7.776	4
	4	Battery storage 4		1.2	0.6	0.72	7.776	4
	5	Battery storage 5		1.2	0.6	0.72	7.776	4

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	6	Battery storage 6		1.2	0.6	0.72	7.776	4
	7	Battery storage 7		1.2	0.6	0.72	7.776	4
	8	Battery storage 8		1.2	0.6	0.72	7.776	4
	9	Battery storage 9		1.2	0.6	0.72	7.776	4
	10	Battery storage 10		1.2	0.6	0.72	7.776	4
	11	Battery storage 11		1.2	0.6	0.72	7.776	4
	12	Battery storage 12		1.2	0.6	0.72	7.776	4
	13	Battery storage 13		1.2	0.6	0.72	7.776	4
	14	Battery storage 14		1.2	0.6	0.72	7.776	4
	15	Battery storage 15		1.2	0.6	0.72	7.776	4
	16	Battery storage 16		1.2	0.6	0.72	7.776	4
	17	Battery storage 17		1.2	0.6	0.72	7.776	4
	18	Battery storage 18		1.2	0.6	0.72	7.776	4
	18	Common Area		na	na	5	54	10
6 FUEL STORAGE								
	1	Fuel Storage 1		1.2	1.2	1.44	15.552	4
	2	Fuel Storage 2		1.2	1.2	1.44	15.552	4
	3	Fuel Storage 3		1.2	1.2	1.44	15.552	4
	4	Fuel Storage 4		1.2	1.2	1.44	15.552	4
	5	Fuel Storage 5		1.2	1.2	1.44	15.552	4
	6	Fuel Storage 6		1.2	1.2	1.44	15.552	4
	7	Fuel Storage 7		1.2	1.2	1.44	15.552	4
	8	Fuel Storage 8		1.2	1.2	1.44	15.552	4

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	9	Common area		na	na	5	54	10

ANNEXURE 2.2: Detailed Item of Works for Civil Scope							To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	PREPARATION OF SITE: Entire surface levelling dressing of earth, removal of shrubs, unwanted roots, debris, waste & storing good earth at nearest place with JBC/Mechanical meas/manually complete .	Entire Allotted and approved site area	N/A	N/A	40000	SQMT			
2	RAMMING EARTH: Surface levelling dressing compaction by roller and dampers before making pathways, laying pavers, fixing kerb stone including filling of soil.	Entire Allotted and approved site area	N/A	N/A	40000	SQMT			
3	SURVEY: Topographical Survey of the plot with total station including levels (Contour Plan) on Hard copy and soft copy)	Entire Allotted and approved site area	N/A	N/A	40000	SQMT			
4	EARTHWORK IN EXCAVATION : Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 2.5 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 Metres.	Main Gates columns for supporting Gate fixing	N/A	N/A	871.87	SQFT			
		High side services(Electric substation, DG set,)			1676.7				
		Admin and Incubation centre			8100				
		Testing Lab			7560				
		Netted zone			12960				
		Washroom			601.02				
		Stepped sitting			324				
		Battery storage			270				
		Fuel Storage			270				
		DMT			388.8				
5	EARTHWORK IN EXCAVATION : Earth work in excavation in foundations, trenches, etc. in all kinds of soils, not exceeding 0.5 metres depth including dressing of bottom and sides of trenches, stacking the excavated soil, clear from the edge of excavation and subsequent filling around masonry, in 15 cm layers with compaction, including disposal of all surplus soil, as directed within a lead of 30 Metres.	Parking Zone	N/A	N/A	7387.2	SQFT			
		Asphalt Road(Flying zone)			16200				
		High side services(Electric substation, DG set,)			1676.7				





ANNEXURE 2.2: Detailed Item of Works for Civil Scope

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
6	FOUNDATION AND FOOTING Cement concrete 1 : 4 : 8 with stone aggregate 40 mm Nominal size in foundation and plinth. Providing & laying in position machine bDMThed and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying including the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge in foundation and plinth. (Note: Cement content considered in this item is @ 330 kg/cum.).	Main Gates columns for supporting Gate fixing	N/A	Ultratech/ Ambuja/ Lafarge	871.87	SQFT			
		Parking			7387.2				
		Admin and Incubation centre:			8100				
		Testing Lab			7560				
		Netted zone			12960				
		Washroom			601.02				
		Asphalt Road			16200				
		Stepped sitting			324				
		Battery storage			270				
		Fuel Storage			270				
		Viewing steps			324				
		Guard Room			46.67				
		Drone Pad(Stage)			100				
		DMT			388.8				
		7			FLOORING AND PCC Cement concrete 1 : 4 : 8 with stone aggregate 40 mm Nominal size in foundation and plinth. Providing & laying in position machine bDMThed and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying including the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge Flooring and PCC(As per CPWD 1st Grade Building) (Note: Cement content considered in this item is @ 330 kg/cum.).		same as above	-do-	Ultratech/ Ambuja/ Lafarge



ANNEXURE 2.2: Detailed Item of Works for Civil Scope

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
8	<p>BOUNDARY WALL - Option 1 Supply, laying, construction of Boundary Creating Pits & excavation for precast pillars imbedding including levelling dressing P/L P.C.C. to jam the RCC precast pillars. (M15) Earth backfilling & levelling, Surfacing of pits of RCC precast pillars Construction of RCC precast boundary wall 6'-8' high using precast RCC pillars, RCC precast 10" wide 2" thickness 6'-8' long to the entire plot. RCC Precast Prestressed Plank: (2100mm X 300mm X 50mm Plank with 4 bars of 3mm HTS Steel), Length - 7 feet RCC Precast Prestressed Column: (150mm X 150mm Column with 7 bars of 3 mm HTS Steel), Height - 9 feet</p> <p><i>Note: Height of the boundary wall to be as same as the height of existing boundary wall.</i></p>	Along the site periphery on three sides- 2000ft in length, and 8 ft in height		Ultratech/ Ambuja/ Lafarge; Jindal Steel	1440	Sq.m			
9	<p>BOUNDARY WALL - Option 2 in Steel gauge Creating Pits & excavation for precast pillars imbedding including levelling dressing P/L P.C.C. to jam the 3MM GAUGE; 3" X3" PIPE MS; Fencing Jali- 5FT height, to be clipped in two parts in between the pipes. Distance between the two pipes- 10ft, total; 200 pipes and pits to be installed Supply and installation of 50mm X 50mm X 5mm angle frame; Jaali 12 gauge 2 X 2 square Pipe pillar 75mm X 3mm</p>	Along the site periphery on three sides- 2000ft in length, and 8 ft in height		NA	1440	Sq.m			
10	<p>MAIN GATE COLUMNS Erection of columns on the sides of Main gates, including supply, construction, finishing, shuttering. Creation of 2 columns on each side of the gate 6m apart in primary entry and 3m apart in secondary entry. Cement concrete ratio - 1:4:8</p>	Both the entrance		NA	10	Sqft			
11	<p>ASPHALT ROAD Supply, laying and construction, Asphalt road (100 mtr x 15mtr) - preparation of air stip for drone having the following specification: (a) WBM of 6" thickness with 40 mm boulder with mohram of Dadri (b) DBM - 40mm to 50mm thickness with 4.5% bitumen VG - 30 (c) Tack Coat with VG 10(Emulsion) (d) Seal Coat with VG 10 and Dust"</p>	Asphalt Road		NA	16200	Sqft			

ANNEXURE 2.2: Detailed Item of Works for Civil Scope

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
12	<p>PAVERS - Exterior Supply, laying, finishing, preparation of Pavers Laying of Earth and ramming with roller for laying pavers and sturdy land Zig Zag Tile M-30 Grade (250 mm x 125 mm x 100)(Only entrance area as mentioned Kerbstone (300mm x 300 mm x100) Saucer Drain Perforated (DSC 05600) (600mm x 400mm x 100) Saucer Drain (DSC 02450) (600mm x 450mm x 100) PCC bed, supply and installation of Laying of pavers, Filling of gaps in Pavers if any persists.</p>	Site		Dalal or Equivalent	85035.6	Sqft			
13	<p>PAVERS - Interior Supply, laying, finishing, preparation of Pavers Laying of Earth and ramming with roller for laying pavers and sturdy land Square Tile M-30 Grade (300 x 300 x 80)(Only entrance area as mentioned Kerbstone (300mm x 300 mm x100) Saucer Drain Perforated (DSC 05600) (600mm x 400mm x 100) Saucer Drain (DSC 02450) (600mm x 450mm x 100) PCC bed, supply and installation of Laying of pavers, Filling of gaps in Pavers if any</p>	Testing labs		Dalal or Equivalent	2,000.00	Sqft			
14	<p>Earthing: Copper Earthing for Neutral:- Supply, Installation, testing and commissioning of waterless and maintenance free Earthing (grounding) electrode of overall size 150mm dia, 3000mm depth, 25mm in dia with copper conductor Conductive aggregate mixed with cement to embed or backfill the void surrounding the 25 mm Cu conductor placed at the centre of a augured bore hole of 150mm dia & 3000mm depth. The surface area of the earth electrode shall lower the earth resistance permanently without periodic watering or recharge of earth enhancing compound for a period of 30 years in all type of soil conditions and shall not leach into the soil or Underground water channels, Electrode's top terminal shall be sealed permanently & earth strip shall be taken cut and terminated to earth bus bar, the earth electrode shall be able to withstand the fault current up to 50KA for 1 second complete as per specification and requirements. with polyethylene pit. Note: Separate earthing for each equipment in Testing Lab</p>	Site	N/A	N/A	3,000.00	L in ft			




ANNEXURE 2.2: Detailed Item of Works for Civil Scope

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
15	<p>Fuel Storage Room - Supply, laying, construction, shuttering, opening, provisions for construction of Fuel storage on site Size - 5000 x 5000 mm Provision of single stepped entry, at a raised level of 450mm from GL. 1 Door and 1 Window opening for ventilation Creation of brick/cement slabs for keeping the barrels. Total 16 Barrel of Dia - 620mm Brick to be of Grade I Mortar: M2 Curing should be done as per best practice described in NBC 2016; Reinforcement as per structure design</p>	Fuel Storage Room	N/A	Ultratech/ Ambuja/ Lafarge	270	Sq. Ft.			
16	<p>Battery Storage Room- Supply, laying, construction, opening, shuttering, provisions for construction of Fuel storage on site Size - 5000 x 5000 mm, Cement concrete shelves to be made for barrel storage, in standing position. Provision of single stepped entry, at a raised level of 450mm from GL. 1 Door and 1 Window opening for ventilation Creation of brick/cement slabs for keeping the barrels. Total 16 Barrel of Dia - 620mm Brick to be of Grade I Mortar: M2 Curing should be done as per best practice described in NBC 2016; Reinforcement as per structure design</p>	Battery Storage Room	N/A	Ultratech/ Ambuja/ Lafarge	270	Sq. Ft.			
17	Removal of good usable material laying on plot like RCC hume pipes & other usable material in as earth.	Complete site	N/A	N/A	N/A	N/A			
18	Disposal of waste/debris shrubs by vehicles	Complete site	N/A	N/A	N/A	N/A			



ANNEXURE 2.3: Detailed Item of Works for Steel Fabrication, Installation etc

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Reference Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	UNIT	Cost per Item	Escalation if Any in %	Total
1	<p>DMT Supply and installation of WDMTh tower in MS industrial grade Size: 6000mm x 6000mm Main column [Hollow pipe] 200x200x6mm : 60 mtr x 37 kg = approx 2220kg Bracing [hollow pipe] 100mmx100mmx5mm: 80mtr x 14 kg = approx 1120 kg Stairs step: 50mm X 5mm-125 mtr x 3 kg = approx 375kg Stairs supporting channel 100x100x4 : 70 mtr x 9.17kg = approx 642 kg Platform: chequered plate 8mm 250sqm =6. approx 2000 kg Approx total weight: 6357 kg; Note: railing weight extra and other small accessories 2000kg</p>	DMT		JINDAL STEEL OR EQUIVALENT	388.8	Sqft			
2	<p>Main Gate Size - 6000m x 2400 Supply and installation of MS gate, for entrance in DTP. MS Gate - Size (w) 6m x (h)1.8m, centre members of the gate to be 3mm gauge strips, fixed with angle on sides. Single openable door to be attached on left side Surface Finish - Enamel Paint in Black</p>	MAIN GATE		JINDAL STEEL OR EQUIVALENT	116.25	Sqft			
3	<p>Secondary Gate MS Gate - Size 3000mm x 2400mm Double door equally divided with centre Latch, Hinged on columns Surface Finish - Enamel Paint in Black</p>	SECONDARY GATE		JINDAL STEEL OR EQUIVALENT	58.12	Sqft			



ANNEXURE 2.3: Detailed Item of Works for Steel Fabrication, Installation etc

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Reference Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	UNIT	Cost per Item	Escalation if Any in %	Total
4	<p>Admin and Incubation Centre- PEB STRUCTURE Size: 30m x 25m, with height of 4m in centre and 3.5m on sides. Supply and installation of CONTINUOUS SANDWICH (PUF) PANEL WITH STEEL STRUCTURE Density 40 +/- Kg/cu Tensile Strength 4.0 Kg/sq.cm Adhesion Strength 3.0 Kg/sq.cm (Foam to steel) Bending St. 4.2 Kg/sq.cm</p> <p>Primary Members Primary structural framing shall include the transverse rigid frames, lean-to-rafters and columns, canopy rafters, interior columns (beam and column frames), bearing the same rafters and corner columns and end walls wind columns.</p> <p>Secondary Members Secondary structural framing shall be including purlins, girts, eave struts, wind bracing, base angles, clips, and other miscellaneous structural members.</p> <p>Physical Specifications of Structural Members Members fabricated from plate or bar stock shall have flanges and webs joined on one side of the webs by the continuous welding process and will conform to the physical specifications of ASTM A570 (Grade 50) or equivalent or having a minimum yield strength of 50,000 P.S.I (345 MPa). Members fabricated by the cold forming process shall conform to the physical specification of ASTM A570 (Grade 50) or equivalent or having a minimum yield strength of 50,000 P.S.I (345 MPa). Members fabricated from hot-rolled structural shapes conform to the physical specification of ASTM A572 (Grade 36) or equivalent or having a minimum yield strength of 36,000 P.S.I (250 MPa). Rods and Angle bracings shall conform to the physical specification of ASTM A36 or equivalent having a minimum yield strength of 36,000 P.S.I (250 MPa).</p> <p>Paint on Structural Members All Structural members shall be cleaned by wire brushing to remove dirt, grease, oil and loose mill scale and given one shop coat of red oxide. The finish paint touch up shall be 30 to 50 microns done at the factory/site. Sand Blasting and special protective coating is an option at client's discretion.</p> <p>Connections All field connections shall be bolted (unless otherwise specified in the approval drawings) The primary bolted connections shall be furnished with high strength bolts conforming to the physical specifications of ASTM A325 (or equivalent) Secondary bolted connections shall be furnished with machine bolt conforming to the physical specifications of ASTM A307 (or equivalent)</p> <p>Roof & Wall Sheeting / Flashing and Trim A Standard supply of material for Roof Sheets is 0.47 mm Bare Galvalume and for wall Claddings it is 0.50mm Colour coated Galvalume. Accessories shall be made from either Bare Galvalume or Color Coated Galvalume as per agreement with the client.</p> <p>Sheeting Fasteners The standard fastener shall be no. 14, Type A self-tapping sheet metal screws with neoprene washers.</p> <p>Sealer / Rope Seal Shall be applied wherever necessary. Anchor Bolts and templates Anchor bolts will be black finished of appropriate diameter and length as per design requirements. Templates will be fabricated at the factory of dimensions mDMThing</p>	ADMIN BUILDING	 	JINDAL STEEL OR EQUIVALENT	8000	sqft			


ANNEXURE 2.3: Detailed Item of Works for Steel Fabrication, Installation etc

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Reference Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	UNIT	Cost per Item	Escalation if Any in %	Total
5	<p>Testing Lab - PEB STRUCTURE Size - 28m x 25m</p> <p>Providing and supply of workshop shed of height 5 mtr in the center and 4 mtrs at rear ends including foundations, PCC, flooring, Rainwater pipes, rolling shutter, brick wall of 9 inches upto 1.5 meters or Jindal Panels including the external painting, door and windows etc. of total area 7500sq ft. Supply and installation of CONTINUOUS SANDWICH (PUF) PANEL WITH STEEL STRUCTURE</p> <p>Density 40 +/- Kg/cu Tensile Strength 4.0 Kg/sq.cm Adhesion Strength 3.0 Kg/sq.cm (Foam to steel) Bending St. 4.2 Kg/sq.cm</p> <p>Netted Area - Drone training area 40 x 30 Pole: Polygonal Golf Netting Poles: Material Galvanized Steel, Pole Type, Polygonal, Galvanized Net height: 20ft Net details- Steel net 3mm gauge No. of poles- 25, fixing of poles; at a distance of 20ft each. The tubular steel poles shall conform to the latest edition of Indian Standard specification IS: 2713 (Part – I, II): 1980. The climatic and isoceraunic conditions at site are given below: (a) Maximum Ambient temp (OC) : 45 (b) Minimum ambient temp. (OC) : 4 (c) Maximum relative humidity : 100% (d) Average number of thunderstorm day per annum. : 75 (e) Maximum No. of rainy days/annum : 120 days (f) Average Rainfall : 1000 mm. to 3000 mm. (g) Maximum Wind pressure/wind speed : 150 Kg/ Mtr. Sq. (h) Height above sea level (m) not exceeding :1000 (i) Earthquake acceleration horizontal seismic co-efficient : As per IS:1893 (2016) For Class-III & IV Zones</p> <p>The materials used in construction of tubular steel poles shall be of the tested quality of steel of minimum tensile strength 410 MPa (42 Kgf/mm²). The materials, when analysed in accordance with IS: 228 (Part-III: 1972) and IS: 228(Part-IX) shall not contain sulphur and phosphorous more than 0.060% each. Tubular Steel Poles shall be swaged type. Swaged poles shall be made of seamless or welded tubes of suitable lengths swaged and jointed together. No circumferential joints shall be permitted in the individual tube lengths of the poles. If welded tubes are used they shall have one longitudinal weld seam only: and the longitudinal welds shall be staggered at each swaged joint. Swaging may be done by any mechanical process. The upper edge of each joint shall be chamfered at an angle of about 45°. The upper edge need not be chamfered if a circumferential weld is to be deposited in accordance with clause No. 5.3.2 of IS: 2713(Part-I):1980. The length of joints on swaged poles shall be in accordance with clause No. 5.4 of IS: 2713 (Part-I): 1980. Poles shall be well-finished, clean and free from harmful surface defects. Ends of the poles shall be cut square. Poles shall be straight, smooth and cylindrical. The welded joints, if any, shall be of best quality, free from scale, surface defects, cracks etc.</p>	TESTING ZONE	 	JINDAL STEEL OR EQUIVALENT	7500	sqft			





ANNEXURE 2.3: Detailed Item of Works for Steel Fabrication, Installation etc

To be filled by Contractor



S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Reference Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	UNIT	Cost per Item	Escalation if Any in %	Total
6	<p>Netted Area - Drone training area 40 x 30M Pole: Polygonal Golf Netting Poles: Material Galvanized Steel, Pole Type, Polygonal, Galvanized Net height: 20ft Net details- Steel net 3mm gauge No. of poles- 25, fixing of poles; at a distance of 20ft each. The tubular steel poles shall conform to the latest edition of Indian Standard specification IS: 2713 (Part – I, II): 1980. The climatic and isoceraunic conditions at site are given below: (a) Maximum Ambient temp (OC) : 45 (b) Minimum ambient temp. (OC) : 4 (c) Maximum relative humidity : 100% (d) Average number of thunderstorm day per annum. : 75 (e) Maximum No. of rainy days/annum : 120 days (f) Average Rainfall : 1000 mm. to 3000 mm. (g) Maximum Wind pressure/wind speed : 150 Kg/ Mtr. Sq. (h) Height above sea level (m) not exceeding :1000 (i) Earthquake acceleration horizontal seismic co-efficient : As per IS:1893 (2016) For Class-III & IV Zones The materials used in construction of tubular steel poles shall be of the tested quality of steel of minimum tensile strength 410 MPa (42 Kg/mm²). The materials, when analysed in accordance with IS: 228 (Part-III: 1972) and IS: 228(Part-IX) shall not contain sulphur and phosphorous more than 0.060% each. Tubular Steel Poles shall be swaged type. Swaged poles shall be made of seamless or welded tubes of suitable lengths swaged and jointed together. No circumferential joints shall be permitted in the individual tube lengths of the poles. If welded tubes are used they shall have one longitudinal weld seam only: and the longitudinal welds shall be staggered at each swaged joint. Swaging may be done by any mechanical process. The upper edge of each joint shall be chamfered at an angle of about 45°. The upper edge need not be chamfered if circumferential weld is to be deposited in accordance with clause No. 5.3.2 of IS: 2713(Part-I):1980. The length of joints on swaged poles shall be in accordance with clause No. 5.4 of IS: 2713 (Part-I): 1980. Poles shall be well-finished, clean and free from harmful surface defects. Ends of the poles shall be cut square. Poles shall be straight, smooth and cylindrical. The welded joints, if any, shall be of best quality, free from scale, surface defects, cracks etc. Fencing Jali- 5FT height, to be clipped in two parts in between the pipes ; Note: Fixing of Steel jaali should resist and withstand Heavy wind condition and be in such manner that the columns have climbing members for dedicated technician to fix any structural flaw.</p>	<p align="center">NETTED AREA</p> <p>the area in sq ft has been taken in account as per the frontage and top of the Drone training zone of the steel jobs</p>		<p>JINDAL STEEL OR EQUIVALENT</p>	22144	sqft			

ANNEXURE 2.3: Detailed Item of Works for Steel Fabrication, Installation etc

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Reference Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	UNIT	Cost per Item	Escalation if Any in %	Total
7	<p>Pods 6 Pods of 10ft x 10ft, steel basic structure for shade; fitted on 3mm gauge angle of 10 ft height, fixed in RCC pit, 4 in nos. and angle frame to be fixed on top of the pillars from pillar to pillar, to have branding flex on it. height 10ft, 2ft below the ground in RCC, and 8 ft above the ground with 4 members joining the 4 pillars this has to include the welding, cleaning, drilling, making holes for electrical.</p>	PODS		JINDAL STEEL OR EQUIVALENT	480	Length in Ft			
8	<p>Prefab Guard house Size 3m x 3m</p> <p>Supply and installation of equivalent of Quad Core COLDWELL-1000/1100 Wall Panel, structure with Roof with same specification as wall. Panel thickness ranges from 50 mm to 175 mm with unique Quad Core insulation Offer the high level of hygienic and contamination control Profile options include flat and micro-rib Cover width: 1000 mm, 1100 mm Designed to withstand internal/external temperature differences of up to 80°C Suitable for cold and chill stores with an internal temperature range of -50°C to +60°C 1100mm product width option leading to minimum no. of joints on site and optimum freight cost Incorporates Quad Core that brings industry leading thermal performance which is 25% better than PUR/PIR Thinner panels due to better U value ensures more internal space for use</p>	GUARD ROOM		JINDAL STEEL OR EQUIVALENT	100	sqft			
9	<p>DRONE STORAGE PARTITION Steel jali with 3mm gauge and 8 ft height high partition with doors Supply and installation of the material to be included.</p>	Testing ZONE		Refer Annexure 2.10.	2,328.00	sq ft			
10	<p>BARREL STORAGE DOORS Steel jali with 3mm gauge and 4 FT height doors with IDMT. Supply and installation of the material to be included.</p>	FUEL STORAGE AREA		Refer Annexure 2.10.	256.00	sq ft			

ANNEXURE 2.4: Detailed Scope for Electrical works							To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
SITE WORKS				Refer Annexure 2.9					
1	Supply, laying, Provision, commissioning and installation of LT Panel on site for capacity of approx 550 KWA. Load is tentative, and may be reduced or increased as per requirement.		N/A			sqft			
2	Supply, laying, Provision, commissioning and installation of DG Room, with Silent DG backup facility of for ADMIN AND TESTING LABs for at least 300 KWA DG Power 0.8 Voltage 415 V Noise Level Silent or Soundproof Cooling System Water Cooling Highly Fuel efficient/ Low operating Cost Class A1 governing with 4%regulation for stable operation in fluctuating loads Meets latest emission norms Low Noise & Low Vibration Cooling system designed for extreme weather conditions Equipped with pusher type fan for better cooling in stationary conditions Fitted with Coolant expansion bottle- Does not require frequent topping up Plateau honed wet liners for longer life and low oil consumption Chrome plated piston ring for longer life & Low lube oil consumption Valve stem seal for lower lube oil consumption Water pump with integral bearing and unitized seal for longer life of pump Low cost of spares Easy & low maintenance	High Services areas 1+1 DG: both silent; Total 2	N/A		1676	sqft			

ANNEXURE 2.4: Detailed Scope for Electrical works							To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
3	<p>Supply, laying, Provision, connectivity with DB & switch and installation of Asphalt Road: lights</p> <p>Outdoor ground burial recessed LED Path Light on both sides of the Asphalt Road - 120 nos.(60 on each length of the Asphalt Road placed approximately and equally 5' apart along the length of 100m) Material- Aluminium Type- Burial Light Optics-Glass Location - Outdoor Application Area -Gardens, Pathways, etc. Dimension (LxB)-Slim: 80mm x 140mm x 60mm, Wattage- 150W Voltage- AC220V - 50/60Hz Colour Temperature -3000K Lumens Count Per Watt - 105lm</p>	Asphalt Road			120	nos.			
4	<p>Supply, laying, Provision, commissioning and installation of High wattage flood lighting from DMT, wiring to be integrated with structure</p> <p>Total 3 Flood lights- 150W Type of Product Color-Cool White Material-Aluminium Lumen:15000 lm Color Temperature-5700K</p>	DMT			3	Nos.			
5	<p>Supply, laying, Provision, commissioning and installation of wires for lighting provision over netted zone</p> <p>Netted Zone - 3 Flood lights- 100W- 3- DMT Type of Product Color-Cool White Material-Aluminium Lumen:15000 lm Color Temperature-5700K</p> <p><i>Note: Provision of illuminating the large area in one go via MCB connection near security.</i></p>	Netted Zone	N/A		12960	sqft			
INTERIOR electrical WORKS									

ANNEXURE 2.4: Detailed Scope for Electrical works							To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	Supply, laying and Installation of DB, MCB alongwith DG backup , from Outlet to further connections; including 1st point connections in ceiling wall and floors. Admin - 2 DB Testing and netted - 3 DB Note: Electrification as per design and detail	Admin Building - 8000 Testing Lab - 7500 Washrooms - 660	N/A		16160	sqft			
2	Supply and installation wiring(copper) for the circulation of lighting in the Admin area, as per Design mentioned in False ceiling and as approved by the architect/client Approximately Admin- 2'x2' - 160 office recessed lights Testing- 4" x 6' - 46 long LED white lights Display area - 6 Track lights for display area Battery storage - 4 tube lights Fuel storage - 4 Tube Lights Washroom - 8 Tube Lights		N/A		16160	sqft			
3	Supply and installation wiring(copper) for the FANS/Wall Fans/Exhaust Fans in the Admin area, as per Design mentioned in False ceiling and as approved by the architect/client Admin - 20 Ceiling fan Admin - 10 Wall Fan Testing - 15 Ceiling Fan Testing - 10 Wall industrial Fans DMT - 1 Wall Fan PEB structures - Exhaust fans - 20(Both admin and testing) Washroom - 4 exhaust Battery storage- 2 exhaust Fuel storage - 2 exhaust		N/A		16160	sqft			
4	Supply and installation wiring(copper) for the SPLIT ACs and CASSETTE ACs, along with outdoor unit as per requirement, in the Admin area, as per Design mentioned in False ceiling and as approved by the architect/client Admin Split AC - 1.5 Tonne AC each - 9 Admin Cassette AC - 2 Tonne Each - 17 Testing Lab - Split AC 2 Tonne each - 8		N/A		15500	sqft			
5	Supply, Laying, connectivity, checking and installation of Intercom Facility (CAT6/CAT5) alongwith punching plates and inlets, for	Admin - 15 Testing -5	N/A		21	nos			

ANNEXURE 2.4: Detailed Scope for Electrical works							To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
	total number of 21 telephones spread across the site	Guard -1							
6	Supply, Laying, connectivity, commissioning, checking and installation of CCTV Wiring (CAT6/CAT5) alongwith Monitors installed in Guard room, for total no. of 25 Cameras spread Across the site internally and externally. Including the storage facility for the Camera recording. as per design by the architect/client; This also includes Laying of wires for Pole mounted CCTV Cameras, along the 4 corners of the site.	Admin - 8	N/A		18	nos			
		Testing - 5							
		Netted Zone- 1 boundary- 4							
7	Supply, laying and installation of wires for setting up, the following Fixtures TV 42" - 8 TV 55" - 2 Hand dryers in washroom - 2		N/A		8660	sqft			
8	Supply and installation wiring(copper), pvc pipes laid in floor for the circulation of current in Admin and Testing Lab in the Admin area, as per Design mentioned in False ceiling and as approved by the architect/client. The module in the Workstation to have 2 switch, 2 socket		N/A		15500	sqft			

ANNEXURE 2.4: Detailed Scope for Electrical works





To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
9	<p>Supply and installation of Switches, switch plate, sockets(ranging from 6 to 125 AMP), as per design requirement for Admin building and Testing Lab.</p> <p>Admin Building 6A - 160 Admin Building 16A - 80 Admin Building Switches (Lights and Fans to be distributed as per standards)- 250 (approx) Guard Room 6A - 4 Guard Room 16A - 2 Testing Zone 6A - 40 Testing Zone 16A - 30 Testing Zone Switches (Lights and Fans to be distributed as per standards)- 90 (approx) DMT 6A - 6 DMT 6A - 2 Battery storage 6A- 10 Battery storage 16A- 10 Battery storage switches (Lights and Fans to be distributed as per standards)- 15(approx) Fuel storage 6A- 10 Fuel storage 16A- 10 Fuel storage switches (Lights and Fans to be distributed as per standards)- 5(approx) Netted Zone - 16A - 4 Netted zone - 1 Handle switch for flood light at Netted zone Asphalt Road - 1 main handle switch for Asphalt Road lighting DMT - 1 main handle switch for DMT flood down light</p> <p>Note: Socket AMP of particular model of equipment not included, it can be specified as per the specified model of equipment. Number of switches etc. can be decreased/Increased as per requirement.</p>	Admin Building - 8000 Testing Lab - 7500 Washrooms - 660 Netted zone - 500	N/A		16660	sqft			
10	<p>Supply, laying and installation of WIFI broadband, alongwith access nodes in specific zones in site, LAN outlets in specific area as per design, and as per approved by architect/client.</p> <p>LAN Points - 6 points in ADMIN and 5 points in TESTING Access Points - 20 (19 points in ADMIN and TESTING; 1 in DMT) hdmi- 7 Points in Admin</p>	Admin Building Testing Lab DMT	N/A		15690	sqft			
11	<p>Provision, Arrangement and santioning of DG & Temp. project office for electrical requirment uptill the time, when electricity is provided from Authority.</p>	Site	N/A		-	sqft			

ANNEXURE 2.5: Detailed Item of Works for Fire and Emergency services						To be filled by Contractor		
S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	Auto Glow Exit signs and indication signs; Size: 12 "x 6"	Various built ups	N/A	12	Nos.			
2	Fire Extinguishers: Supply and installation of ISI marked (ISI MARK 15683) portable Co2 fire extinguisher of capacity 4.5 kg flat base including valve, discharge one meter long hose of . meter complete in all respect with explosive certificate .(MAKE:	5 Admin area, 5 Testing, 1 DMT, 1 Battery storage, 1 Fuel storage. 2 near asphalt road	Ceasefire/FIRE CUT /Minimax, safex / kanax (N.S)	15	Nos.			
3	Sand Buckets Supply and installation: Set of 9 buckets Material: Fire buckets are typically made from mild steel and are galvanized. Thickness: The bottom sheet of a fire bucket should be at least 1 mm thick, and the ears should be at least 2.8 mm thick. Welding: All gas welds should be free of porosity, blow holes, and brittleness. Handles: The top handle should be made from a mild steel rod with a diameter of about 10 mm, and the bottom handle should also be made from a mild steel rod with a diameter of about 10 mm. Painting: Fire buckets are usually painted with two coats of red paint on the outside and two coats of white paint on the inside. The word "FIRE" should be painted in white on the outside, with letters that are about 75 mm high and 12 mm thick. Shape: The body of the bucket should be made from two halves that are joined together by butt welding. The bottom should be dished and joined to the body by butt welding. The top rim of the body should be wired and beaded. ISI marking: Fire buckets should be ISI marked (IS:2546)	Near DMT - 1 Pods - 6 Asphalt Road - 3	Refer Annexure 2.10.	10	Nos.			




ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	<p>PCC PCC Providing and laying Plain cement concrete flooring of specified thickness, of M15 grade in nominal mix of (1:2:4) with approved quantity of stone chips 20 mm to 6 mm size graded & clean coarse sand of FM 2.5 to 3. Concrete shall be laid in panels of size 3 m X 4 m or as approved ,to proper level and slope including compactions, vibration, marking lines to give the appearance of tiles of size 600mm X 600mm, screening, shuttering, mixing cement concrete in mixer & placing in position, finishing the top surface smooth or as directed by the Engineer and filling/cleaning the joints as directed by the Engineer and curing etc. complete. Cost should be inclusive of hacking the existing floor so that PCC adhere to the existing floor. Up to 50 mm Thick</p> <p>Note: If the above job is done in Civil then this point can be omitted. Leaving the PCC floor in Fuel storage, to avoid slippery surface due to any spillage.</p>	<p>admin: 8100 testing: 7560 battery: 270 fuel: 270 Netted Zone: 12960</p> <p>Fuel storage flooring to be non-tiled, to be remained as PCC finish, cement finished and polished floor</p>		N/A	16,200.00	Sqft			
2	<p>FLOORING: VINYL(Combination) Supply and Installation of Vinyl flooring on Levelled and even PCC floor pasted with Industrial grade adhesive including Skirting and wastage.</p>	<p>Admin Building : Office : 311.36 Co-working space, : 1280.45 common area, 933.12 reception & Waiting:752.76 Skirting approx 30%: 20% wastage:</p>		Alstone, RMGPoly, Floormonk	3188.4	Sqft			
3	<p>FLOORING: VINYL(Combination) Supply and Installation of Vinyl flooring on Levelled and even PCC floor pasted with Industrial grade adhesive including Skirting and wastage. Supply and installation of the material to be included.</p>	<p>Admin Building : Pantry:-147.92 computer lab:421.20 classroom 1,2: 355.32 future expansion room:261.14 Storage:280.88 Skirting approx 30%:526.23 20% Wastage:350.82</p>		Alstone, RMGPoly, Floormonk	2,438.83	Sqft			
4	<p>FLOORING: CARPET Carpet Flooring (Rate to Include 3% attic Stock and wastage as required for each Design.) Make - Standard Carpet. Supply and installation of the material to be included.</p>	<p>ADMIN BUILDING : Meeting rooms 1: 190.84 Meeting room(2-4): 173.88 conference rooms 1: 318.82 conference room 2: 287.71 Skirting approx 30%: 428.967 20% Skirting: 285.978</p>		Euronics/ Welspun	2,207.82	Sqft			





ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
5	<p>FLOORING: vinyl(Combination) Supply and Installation Vinyl flooring on Levelled and even PCC floor pasted including Skirting and wastage Supply and installation of the material to be included.</p>	<p>TESTING ZONE: Drone Storage area (1 to 5)-301.39 common hanger zone-1757.5 Tinkering zone-587.71 Common passage-696.4</p>		Alstone, RMGPoly, Floormonk	6,822.90	Sqft			
6	<p>FLOORING : VINYL(Combination) Supply and Installation Vinyl flooring on Levelled and even PCC floor pasted including Skirting and wastage Supply and installation of the material to be included.</p>	DMT Inner viewing chamber with workstation provision		Alstone, RMGPoly, Floormonk	228.61	Sqft			
7	<p>FLOORING : VINYL(Combination) Supply and Installation Vinyl flooring on Levelled and even PCC floor pasted including Skirting and wastage Supply and installation of the material to be included.</p>	<p>Battery storage:270 Skirting approx 30%:81 20% Wastage:54</p>		Alstone, RMGPoly, Floormonk	405.00	Sqft			



ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
8	<p>FLOORING:Tile Providing and fixing flooring 1st quality homogeneous tiles of approved make with 600 x 600mm Vitrified Tile with water absorption less than 0.08% & confirm to IS : 15622 of approved make, colour & shade etc. as directed by the Architect / PMC, in pattern as per detailed drawings on up to 25 mm to 40 mm thick backing, including surface preparation, cleaning joints and grouting them in neat white cement paste with pigmented additives to mDMTh shade of the tile. etc complete. The rate should also include roughening the existing floor with grinder blade and fixing tile on tile with ROFF adhesive wherever necessary. 4mm Spacers as per Instruction. Supply and installation of the material to be included.</p>	<p>washroom: 601.02 guard washroom: 46.65 skirting approx 30%:194.30 20% wastage:129.53</p>		Kajaria/Somany/Motto/Nitco	971.50	Sqft			
9	<p>WALL SURFACE :Tile Providing and fixing flooring 1st quality homogeneous tiles of approved make with 600 x 600mm Vitrified Tile with water absorption less than 0.08% & confirm to IS : 15622 of approved make, colour & shade etc. as directed by the Architect / PMC, in pattern as per detailed drawings on up to 25 mm to 40 mm thick backing, including surface preparation, cleaning joints and grouting them in neat white cement paste with pigmented additives to mDMTh shade of the tile. etc complete. The rate should also include roughening the existing floor with grinder blade and fixing tile on tile with ROFF adhesive wherever necessary. 4mm Spacers as per Instruction. Supply and installation of the material to be included.</p>	<p>washroom: 1600 guard washroom:324.06 Pantry - 40 20% wastage:384.84</p>		Kajaria/Somany/Motto/Nitco	2,349.04	Sqft			
10	<p>WASHROOM PARTITION Titan 12mm Box-Up A blend of strength and aesthetics to elevate your restroom experience Supply and installation of the material to be included.</p>	<p>WASHROOM: One male:157.77 one female washroom:157.77</p>		Merino	315.54	Sqft			
11	<p>GLASS PARTITION Framework toughened glass, hardware, height, Doors, as per design, handles and hardware for mechanism of doors. Doors: 30 Partition 1:15000 mm x 3000mm 10mm Glass Partition 2:4630 mm x 3000mm 10mm Glass Partition 3:14550 mm x 3000mm 10mm Glass Partition 4: 15430 mm x 3000mm 10mm Glass Partition 5:7150 mm x 3000mm 10mm Glass Partition 6:7150 mm x 3000mm 10mm Glass DMT glass - 10mm toughened glass for DMT - 132 sq ft Supply and installation of the material to be included.</p>	Admin building as per drawing		Refer Annexure 2.10.	As per dimensions mentioned	N/A			


ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
12	<p>ALUMINIUM PARTITION</p> <p>Framework toughened glass, hardware, height, Doors, as per design, handles and hardware for mechanism of doors.</p> <p>Total span of partition: 120sqft</p>	Admin building as per drawing		Refer Annexure 2.10.	132.00	N/A			
13	<p>BOARD PARTITION-BISON/CEMENT WALL</p> <p>Aluminium Frame with fixing of Bison/cement Board Fixed with screw in aluminium frame upto Height of 10' Imbedded in floor Partition 1,3,5,7:6000mm x 3000mm Partition 2,4,6:3005 mm x 3000mm Partition 7:5762 mm x 3000mm Partition 8:4025 mm x 3000mm Partition 9,11: 6260 mm x 3000mm Partition: 12,13,15,17:3005 mm x 3000mm Partition 10:4612 mm x 3000mm Partition 14, 16: 7264 mm x 3000mm Partition 18, 19: 5968 mm x 3000mm Partition 19:4139 mm x 3000mm Partition 20,22:5135 mm x 3000mm Partition 21:10395 mm x 3000mm Partition 24,26,28,29,30,31:4575 mm x 3000mm Partition 25,27:4612 mm x 3000mm Partition 32, 33:7210 mm x 3000mm Partition 34,35:3987 mm x 3000mm Partition 36:5020 mm x 3000mm</p> <p>Supply and installation of the material to be included.</p>	Admin building as per drawing		As per annexure 2.10.	As per dimensions mentioned	N/A			





ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
14	<p>BOARD PARTITION-BISON/CEMENT WALL</p> <p>Aluminium Frame with fixing of Bison/cement Board Fixed with screw in aluminium frame upto Height of 10' Imbedded in floor</p> <p>Partition 1:6000mm x 3000mm Partition 2:5770 mm x 3000mm 10mm Glass Partition 3:6000mm x 3000mm 10mm Glass Partition 4:5770 mm x 3000mm 10mm Glass Partition 5:6000mm x 3000mm 10mm Glass Partition 6:5770 mm x 3000mm 10mm Glass Partition 7:6000mm x 3000mm 10mm Glass Partition 8:5770 mm x 3000mm 10mm Glass Partition 9:6000mm x 3000mm 10mm Glass Partition 10:5770 mm x 3000mm 10mm Glass Partition 11:6000mm x 3000mm 10mm Glass Supply and installation of the material to be included.</p>	TESTING ZONE: Testing lab 1,2,3,4 Service and storage		As per annexure 2.10.	As per dimensions mentioned	N/A			
15	<p>GYPSUM PLASTER ON NEW WALLS</p> <p>Providing, preparing and applying 13 mm thick (average) premixed formulated one coat gypsum lightweight plaster Gyproc Elite 90 having light weight aggregates of expanded Perlite and other special additives conforming to IS: 2547 both Part I & II - 1976 which is certified by Green Pro & GRIHA for green buildings and delivering a coverage of 21-22 SQFT/25kg bag @ avg thickness of 13 mm and having a setting time between 15 & 25 mins applied directly on background such as brick/block/ RCC, on internal walls & ceiling at all floors and locations, finished in smooth line and level, free of undulations and cracks. Also providing and fixing PVC expandable chicken mesh @ 150 mm wide to junctions of concrete and masonry as recommended by Saint-Gobain Gyproc. Edge protection for corners etc complete as directed by the Project Manager. The rate shall be inclusive of making 6mm groove as per design requirements. For punning thickness more than 12mm, chicken/PVC mesh (approved by Project manager- Paid separately) to be used. The surface punned to be kept ready to take on paint/wallpaper. All complete as per instruction of Project Managers. Supply and installation of the material to be included.</p>	As per drawing	N/A	Refer Annexure 2.10.	80,000.00	Sq ft			
16	<p>PLASTIC EMULSION PAINT.</p> <p>Providing and applying three coats of Plastic emulsion paint of approved make to all internal walls / ceilings, of approved color over a coat of water based primer including preparation of surface by thorough cleaning and wetting and applying ready made putty as per manufacturer specification fully to give a smooth and even surface before painting and curing as per manufacturer's specifications and as directed. Same as above but with One Coat of Paint and Two Coat of Primer(Surface Below Wallpaper , Branding) Supply and installation of the material to be included.</p>	Various	N/A	Refer Annexure 2.10.	100,000.00	Sq ft			

ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
17	<p>CEILING: 2x2 ft GRID CEILING</p> <p>Frame Work: Precoated angles of size 25x25 mm are screw fixed to the perimeter of the wall or partition at the given ceiling level. Main 'T' sections 3600mm long, with "H" slots at 150 or 300mm centers in its vertical flange, to hold the cross "T" sections, are suspended from the soffit with the help of rawplug, soffit cleat and G.I. wire(4mm dia) at 1200mm c/c. These sections also have notch at its both ends to increase the length. Cross "T" sections of 1200mm length with "H" slot in the center and notches at both ends are inserted fixed into the main "T" at 600mm c/c to form a regular grid of 600x1200mm. Cross "T" of 600mm length is inserted fixed into the 1200mm cross "T" to form a regular grid of 600x600mm.</p> <p>Board Laying: ceiling boards of size 595x595mm or 595x1195mm are laid into the grid depending on the metal grid size.</p> <p>Note: clamp down clips should be placed on the back side of the Hilux boards (at least 2 per sides)</p>	Admin building	 	Refer Annexure 2.10.	8,000.00	Sq ft			
18	<p>ACOUSTICAL CEILING PANEL (Make Techno Acoustic / Continuum) Acoustical Ceiling :-Supply and installation OF 10 mm acoustic PANELS for reducing and controlling Reverberated noise with a NRC of 0.9 , Panel Composition 100% PET to be minimum 50% Recycled PET with LOW VOC which addresses life cycle impacts such as Toxicity. Size of Panel 1220 x 2420 with thickness of 10 mm , weight 1600 gsm, Density 195 kg/m3. Supply and installation of the material to be included.</p>	Testing Labs Only			1,750.00	Sq ft			
19	<p>LIGHTING:TRACK LIGHT 20W Warm White Modern and stylish - This track lights for wall fixture offers sufficient lighting to create the appropriate ambiance in your home's kitchen, corridor, or living area, as well as for wall art in stores, eateries, or showrooms. Track Light - 350 degree horizontal and 90 degree vertical aiming. Energy Star Rated, and CEC Title 24 compliant. TRACK LIGHT - An included floating canopy power feed allows you to supply power from anywhere along the track. ENERGY SAVING - For indoor use LED focus light for ceiling spotlight produces approximately the same amount of light as a 60-watt bulb. Light fitting and driver included; can be plugged directly into 220V. High Powered Replaceable LED Module CRI: 90, Rated Hours: 50000, Color Temp: 3000K. Standards: ETL & CETL listed for Damp Locations.</p>	Admin Display area		Refer Annexure 2.10.	8	No.s			


ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
20	<p>LIGHTING : 2x2 Panel 30w RC360B LED30S Led Colour: Neutral White (4k)</p> <ul style="list-style-type: none"> • High Uniformity & CRI>80 • Efficiency 100 lm/W • Compact integral design • Multiple Lumen Packs & CCT Suiting Different Applications and Heights • Super Slim With Just 35mm Depth Inside Ceiling • 25000 hrs • Ambient Temperature 45°C • Surge 2.5 KV Internal, Operating Voltage 160-270V, THD <30% • Uv stabilised frame with uniformly diffused light due to high quality PC diffuser • easily serviceable ballast 	Admin building:		Refer Annexure 2.10.	159	No.s			
21	<p>CAMERA fixtures only</p> <p>2MP Smart Hybrid Light Audio Indoor Fixed Turret Camera High quality imaging with 2 MP, 1920x1080 resolution Up to 30m IR distance for bright night imaging 2.8 mm, 3.6 mm fixed focal lens One port for four switchable signals (TVI/AHD/CVI/CVBS) Up to 20 m white light distance for bright night imaging High quality audio with audio over coaxial cable, built-in mic Water and dust resistant (IP67) Smart-Hybrid light, optimize your security with flexible lighting options</p>	Admin building: 8 Testing zone: 5		Refer Annexure 2.10.	13	No.s			
22	<p>EXTERIOR CAMERA</p> <p>2MP Smart Hybrid Light Audio Indoor Fixed Turret Camera High quality imaging with 2 MP, 1920x1080 resolution Up to 30m IR distance for bright night imaging 2.8 mm, 3.6 mm fixed focal lens One port for four switchable signals (TVI/AHD/CVI/CVBS) Up to 20 m white light distance for bright night imaging High quality audio with audio over coaxial cable, built-in mic Water and dust resistant (IP67) Smart-Hybrid light, optimize your security with flexible lighting options</p>	Netted zone, 2 boundary: 4 DMT - 1		Refer Annexure 2.10.	7.00	No.s			
23	<p>COUNTERS</p> <p>WASH BASIN COUNTER Providing & fixing platform, polishing if reqd., of 600 MM deep made out of 19mm thick marble on top with chamfered edges laid on 18mm marine Plywood. Counter Base to be made of Indian marble Top and with vertical supports. Fixing to be done as per design and details. Inclusive skirting, facia complete with wash basin fixing, moulding, cleaning, etc.</p>	Male washroom: 24.73 female washroom: 17.17 guard washroom: 10.73		Refer Annexure 2.10.	52.63	Sq ft			


ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes



To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
24	<p>COUNTER TOP WASH BASIN Supplying , Installing, testing and commissioning of white glazed Counter top wash basin, CP Pillar Cock with 32mm dia. waste coupling , 15mm dia angle stop cock , 15mm CP Connection Pipe , 32mm dia. bottle trap , brackets with necessary screws , consumables , CP extension nipples , silicon sealant for filling of all the gaps wherever required, with all jointing materials like white cement and Glass putty , including cutting and making good the walls and floors, wherever required, all etc complete.</p>	<p>Male washroom: 3 female washroom: 2 guard washroom: 2</p>		<p>Refer Annexure 2.10.</p>	<p>7.00</p>	<p>No.s</p>			
25	<p>BLINDS Providing and fixing Roller blinds of approved or equivalent make with head channel, traversing cord and warranty etc as per manufacturer's specifications. Fabric to be as per approved sample. Product Description :- SCREEN ROLLER BLINDS FABRICS 5% OPENNESS Weight:-690gsm/m to 695gsm/m Thickness :-0.96+_5% Colour Fastness :-701/1999 test method pass Fabric Structure 30% polyester 70% Vinyl on Polyester Mesh/in:- 50X16 Anti-Ultraviolet :-99% Yarn Diameter:-.013 X.013 Tensile strength Warp 215.8/weft 207.6(Danf/5Cm Breaking strength :-warp>3000 weft>1000 Flammability - NFPA 701 (USA STANDARD) Grade b1 (GB 8624-1997) Environmental Certification ISO 14001:2004 The fabric shall be attached to the roller tube with high quality self adhesive tape. Manual operation of blinds shall be smooth and upto the satisfaction of the Architects.</p>	<p>Admin Testing Fuel Battery DMT</p>		<p>Refer Annexure 2.10.</p>	<p>1,500.00</p>				
26	<p>SIGNAGE Door Signage - 40 Providing and Fixing of all zones/areas Signage boards for the doors in sliding form to make it replaceable inserts type with black letters embossed. The signage plate to be of 300mm x 50mm x 2mm thick back plate to be in Glass as well fixed to the door as per design and details of the architect. Push Pull Signage - 30 Providing & Fixing pull & push signage , on every door, SS with black letters, 50mm X 125mm x 2mm thick , fixed on door with 3 M twin sided tape ."" Company signage/LOGO behind Reception ; 2 12 mm thk color solid acrylic letters : 3d acrylic letters made out of 12mm thk color solid acrylic letters to be laser cut and the same needs to be fixed / pasted on the wall / laminate / painted surface / solid acrylic reception table using 3m double sided tape at the desired locations and heights mentioned as per architect choice. all the edges of the letters to have polished / smooth finish. the size of the letters to be approx 2' -0"" in height and length to be proportionate to the height considered.</p>			<p>N/A</p>	<p>72.00</p>				

ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes

To be filled by Contractor

S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total
27	<p>FLOOR MOUNTED WATER CLOSET Supplying , Installing, testing and commissioning Wc floor mounted single unit , plastic solid seat and cover with rubber buffers and flap,heavy duty plastic hinges , PVC Water Closet connector , MS Chair Bracket , silicon sealant , consumables complete, including cutting and making good the walls , wherever required etc complete . Size: 354Wx520Dx348H mm Color : Star White Concealed Cistern - WH131MHFR CONCEALED TANK W/ HALF FRAME Flush Plate - FLUSH PLATE FLUSH PANEL height 763 mm</p> <ul style="list-style-type: none"> • sanitary ware • alpine white • siphonic flush • S trap • drain distance 305 mm • flush volume 4.8 l/3.0l • Duroplast WC seat and lid with soft close function • Hyperclean • Proguard • including fixation set <p>SPARE PARTS, 1: Internal Set (Spare part-nr. 49500000) 1.1 : Push button (Spare part-nr. 49503000) 1.2 : Filling valve (Spare part-nr. 49502000) 1.3 : Discharge valve (Spare part-nr. 49501000) 2: WC seat and lid (Spare part-nr. 49507000) 2.1 : Shock absorber (Spare part-nr. 4952000M) 3: Trap (Spare part-nr. 49514000) 4: Mounting set (Spare part-nr. 49516000) 5: Wax ring (Spare part-nr. 49517000)</p>	<p>Male washroom - 3 Female washroom - 3 Guard washroom - 2</p>		<p>toto, hindware, cera, parryware, grohe</p>	<p>8.00</p>	<p>No.s</p>			
28	<p>WATER PROOFING (TOILET INTERNAL WALL UPTO 3 FEET) Providing of water proofing - chemical treatment – the slab to be cleaned and apply 3 coats of chemical (fosroc equivalent) on the floor and on the peripheral walls upto 1 m. b) base coat – applying base coat of 1:6 mortar over chemical treatment on the floor and on the peripheral walls upto 3 feet . Angular Stop Cock Angular Stop Cock with Wall Flange PRODUCT CODE: LYR-CHR-38053 2-Way Bib Tap with Wall Flange PRODUCT CODE: OPP-CHR-15041PM" Waste Coupling - Model : ALD-CHR-709L130 Waste coupling 32mm Size Half Thread with 130mm height 2 feet length connection pipe</p>	<p>Male washroom - 3 Female washroom - 3 Guard washroom - 2</p>	<p>N/A</p>	<p>Refer Annexure 2.10.</p>	<p>1500</p>				

ANNEXURE 2.6: Detailed Item of Works for Interior works and Finishes							To be filled by Contractor			
S.No	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	REF IMAGE	MAKE/BRAND (Any from mentioned)	Qty/Nos./ Area	Unit	Cost per Unit	Escalation if Any in %	Total	
29	<p>URINAL Supplying, fixing, testing and commissioning of approved make white color glazed back inlet type glazed urinal with SS bolts and nuts to fix the urinal with all hangers and brackets complete with wall flanges</p> <p>Size : 320W x 340D x 540H mm Urinal with Fixing Accessories Set,- UW104HJ#W Wall hung urinal</p>	Male washroom		toto, hindware, cera	3	No.s				
30	<p>HAND DRYER & TISSUE DISPENSER & BIN Providing and fixing of Hand dryer of approved make with complete accessories, as per the approval of architect High speed hand dryer W/ Paper Dispenser And waste bin</p>	Male washroom:1 Female washroom:1	N/A	toto, hindware, cera	2	No.s				
31	<p>SOAP DISPENSER Providing and fixing of Soap dispenser of approved make with complete accessories, as per the approval of architect.</p>	Male washroom - 2 Female washroom - 2 Guard washroom - 1	N/A	Euronics	5	No.s				
32	<p>PLUMBING WORKS. INTERNAL WATER SUPPLY and INTERNAL DRAINAGE Providing, laying and jointing in position heavy quality approved make CPVC Pipes including all fittings like offsets, bends , single or double junctions of different degrees, fixing them on floors by clamps so as to keep the pipes away from the wall including all scaffolding, water testing after laying the pipes as specified and painting etc complete.</p>	All interior spaces	N/A	Refer Annexure 2.10.	N/A	N/A				
33	<p>NAHANI TRAP Providing and fixing in position P.V.C. Nahani trap with 2 or 3 inlets, baffle wall and 75 dia outlet and a trap seal of 40 mm with stainless steel square grating on top.</p>		N/A	Refer Annexure 2.10.	5	Nos				
34	<p>TESTING LAB STEEL ROLLER SHUTTER with Wicket door Ms grill rolling shutter Grill wire 8mm standard Bottom rail 2mm thick 100mm side channel 3mm kanplate Provision of a wicket door on the left side of the each Lab, so that the entry is open always, only the shutter is rolled up in case of Drone shifting. Both the shutter and the door can be attached together once the roller is down.</p>	Testing lab		Refer Annexure 2.10.	2000	sqft				
35	<p>DEEP CLEANING Doing general deep cleaning at site on carpet \ hard floor \ below false floor \ storages \ Glass Partitions\ Windows, etc. using Industrial type vacuum cleaner & with necessary cleaning equipments as required at site, complete to the entire satisfaction of Project Engineer at the time of final handover.</p>	All interior spaces	N/A	N/A	55000	sqft				

ANNEXURE 2.7: Detailed Item of Works for Water supply/Plumbing etc

To be filled by Contractor

S.No.	ITEM OF WORKS and DESCRIPTION	Area/ Zone	MAKE/BRAND (Any from mentioned)	Qty/Nos./Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	Water Tank for storage Supply and installation of Zinalume sheet water tank of 10 KL capacity to supply water to washrooms, guard washroom, and Pantry.	As per topographical survey, and drainage slope, the zone will be marked later		1.00	N/A at this stage			
2	Installation of underground PVC piping for supply of water to the washroom, guard room washroom, Water testing lab, pantry.			as per drawing	N/A at this stage			
3	Water tank- sintex for washroom for washing, wash basin, cisterns and misc. 1000L Tank onver main washroom, 500L tank over guard washroom	Common washrooms - 1000L Guard washroom - 500L		1500L				
4	Connectivity of STP to main sewer line. Note: Current BOQ will show the Plan till septic tank only. Rest exact details to be as epr design on later stage	Site		as per design and survey				
5	STP - Sintex Package Sewage Treatment Plant Along with Intermediated Tank & Treated Water Storage Tank. Sintex PWTS StBF - 5000 I/d along with IMT-2000 L & TWST-2000 L & TTP Capacity 5000 Liters (PWTS-STBF-0500-01)	As per topographical survey, and drainage slope, the zone will be marked later		as per drawing	N/A at this stage			
6	Tubewell construction	As per topographical survey, and drainage slope, the zone will be marked later		N/A	N/A at this stage			
	Drilling with RC/DC rig having 300/400 mm dia bore size in all kind of strata except hard rock.							
	8" UPVC Plain Pipe Class CM IS 12818 (10-11.2mm thickness)							
	8" UPVC Slotted Pipe Class CM IS 12818 (10-11.2mm thickness)							
	Lowering of Pipe							
	Tubewell Fittings like bail plug, cap etc.							
	Pea Gravel around the casing pipe							
	Development of Tubewell with Heavy duty air compressor 5 hrs or less Beyond 5 hrs if required							
	Supply of KSB make submersible pumping set with 7.5 HP with motor 7 stage pump suitable for 10/12/16/18/20/22/24 m3hr. At 79/78/72/68/63/58/52 mtr. Head respectively. Three Phase							

<p>2" UPVC Pipe Astral Make</p> <p>PVC Coated wire rope</p> <p>Submersible cable Cable 4 sq.mm. (Aerolex/ Finolex)</p> <p>Panel Board for Submersible pump fitted with DOL Starter ammeter, voltmeter single phase preventer, standard / indo-cop or equivalent make MCB on / off switch pump button duly wired and made out of 16/18 SWG sheet .</p> <p>Pump Fitting Clamp elbow nipple etc</p> <p>Lowering of pumpset</p>						
<p>Water Supply (WTP System)</p> <p>Provision of Water supply in Testing Lab, for water test. with a facility of water drainage system out of the building. towards the back of the testing lab.</p> <p>Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.</p> <p>Boring/drilling bore well of required dia door casing/strainer pipe, by suitable method prescribed in IS: 2880 (part I), including collecting samples from different strata preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants and machineries, pit for water, arrangement of water including water charges etc as required for the job all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level. (i) All type of Soil. (i) 300 mm dia.</p> <p>Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step drawdown method, collecting water samples & getting</p>	<p>Refer Annexure 2.</p>	<p>N/A</p>	<p>N/A at this stage</p>			

7

As per topographical survey, and drainage slope, the zone will be marked later

Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell

Providing and fixing uPVC inlet fitting (Hopper) maximum 3 inlets 32, 40 or 50 mm size fabricated from 110 OD PVC pipe fixed to uPVC trap jointing with solvent cement joint and set in a cement concrete 1:2:4 mix complete including cost of cutting and making good the walls and floors wherever required. Approved Make : Prince/Astral/Finolex

Supply and installation of Faucets, accesories, traps, joints, pipes, for the outlet of the

ANNEXURE 2.9: LIST OF MAKES and FINISHES		
Sr. No.	Name of Items	Name of the Brand
ELECTRICAL		
1	Modular Switch, Socket and accessories	Legrand(Myrius), Schneider(Opale), Honeywell(Blenze Plus), Norisys(Square)
2	MS Conduit Pipes (I.S.I. Marked)	BEC, NIC, Steel Krafts, M.Kay
3	PVC Conduit Pipes (ISI Marked)	BEC, AKG, Polypack, Precision
4	PVC Wires (FRLS) Copper Conductor (I.S.I. Marked)	Havells, Polycab, RR Kabel, Finolex
5	Multicore PVC insulated copper flexible cables	Havells, Polycab, RR Kabel, Finolex
6	Coaxial Cables	Havell's, Polycab., RR Kabel, Finolex
7	Data and telephone cables	Legrand, Systimax, AMP, Molex
8	LT-PVC/ XLPE Underground cables with Aluminum/Copper Conductor (I.S.I. Marked) (I.S.I. Marked)	Havells, KEI, Skytone, Polycab
9	PVC pipe 6 kg/sq cm pressure with accessories	AAKG, Diplast, Kalinga, Polypack, Dauphin.
10	GI Pipe & M.S. Pipe (medium) ISI Marked	Jindal, Parkash, Ravindra, Tata.
11	MCBs & Enclosure, ELCB/RCCB.	Legrand, Siemens, Hager, Schneider Electric (Makes of enclosures shall be same as per MCBs)
12	MCCBs & Enclosures	L&T, Siemens, Schneider Electric, Legrand
13	(i) Ceiling Fans (Double ball Bearings)	Crompton, Orient, Usha, Havells
14	(ii) Exhaust Fans	
15	Cable Glands	Comet, Gripwell, Hex
16	Thimbles	Dowells, Jainsons, Raychem
17	HDPE Pipes	Supreme, Paramount, Apollo
18	L.T. Panel	Anubhav Power, Shivam Control, Shivalic, Milestone

19	Lighting Fixtures- Internal	Regent, Philips,Trilux,
20	Lighting Fixtures- External	K-Lite, Twinkle, Vak
21	External Lighting Poles	K-Lite, Twinkle, Vak
22	Optic Fibre Cable	Legrand, Panduit, Siemon
23	LIU	Legrand, Panduit, Siemon
24	Fibre PDMTh Cord	Legrand, Panduit, Siemon
25	PDMTh panels	Legrand, Panduit, Siemon
26	Data Cable Cat-6	Legrand, Panduit, Siemon
27	Cat-6 PDMTh Cords	Legrand, Panduit, Siemon
28	Information outlets	Legrand, Systimax, AMP, Molex
29	Network Racks	Legrand, Rittal, Deliyod
30	Fire Detection Panel	Notifier, Edwards, Tyco
31	Fire Detection accessories	Notifier, Edwards, Tyco
32	PA controller	Honeywell, Bosch, Heinrich
33	Alarm Call station	Honeywell, Bosch, Heinrich
34	Power amplifier	Honeywell, Bosch, Heinrich
35	PA speakers	Honeywell, Bosch, Heinrich
36	CCTV Cameras	Honeywell, Impulse, Axis, Bosch, HIKVision
37	NVR	Honeywell, Impulse, Axis, Bosch, HIKVision
38	Network switches for CCTV	Cisco, Impulse, Juniper, Extreme, Nexus
39	Professional LED Monitor	Panasonic, LG, Sony, Samsung
40	Wiring Raceways	BEC, MEM, R M CON, Sai Metal
41	Floor Boxes	Legrand, MK, OBO
42	Cable Trays	BEC, MEM, R M CON, Sai Metal
43	MCCB, MCB, ELCB, RCBO	L & T / SCHNEIDER / SIEMENS / LEGRAND
44	CABLES & WIRES	POLYCAB / KEI / RR / FINOLEX
45	AUTOMATIC CHANGEOVER SWITCH (AT	ASCO

46	DISTRIBUTION BOARDS	L & T / SCHNEIDER / SIEMENS / LEGRAND
47	CABLE GLANDS & LUGS	DOWELLS / JAINSONS / COMET / POLYCAB
48	PVC CONDUITS	PRECISION PLASTICS / POLYCAB
49	CABLE TRAY & RACEWAYS	INDIANA / PROFAB / EQUIVALENT LOCAL
50	CAPACITORS	EPCOS / SHREEM / PRABODHAN / NEPTUNE
51	CAPACITOR DUTY CONTACTORS	EPCOS / L & T /SIEMENS
52	APFC PANEL (IF PROVIDED AS ONE UNI	NEPTUNE / L & T / SHEEM
53	LIGHTING FIXTURES	WIPRO / HAVELLS / SYSKA OR EQUIVALENT
54	EXHAUST FANS	CROMPTON / BAJAJ / HAVELLS
55	TELEPHONE CABLE	ITL / POLYCAB / FINOLEX
56	KRONE JUNCTION BOX	ITL
57	CAT-6 UTP CABLE	SYSTIMAX / R & M
58	FIRE ALARM SYSTEM	RAVELLS / HONEYWELL / GST
59	D.G. SET	KIRLOSKAR GREEN
60	CCTV SYSTEM	HONEYWELL / HIKVISION
61	SWITCHES	ANCHOR ROMA
62	PANEL	ZENITH / ARROW
63	RACEWAY.	JINDAL / PREFABRICATED / ELINS / PUSHPAK/ GANAPATHY FAB
64	LOAD / METRES	AE/ MECO
65	FRLS COPPER WIRES	ANCHOR/ FINOLEX/KEI
66	UPS, ISOLATION TRANSFORMER	SOCOMECC/APC/EMERSON/ MEGATECH / SUKAM/NUMERIC
67	END TERMINATION MATERIALS	DOWELLS / SMI / COMET
68	DIGITAL PANEL METERS --- DIGITAL ENERGY METERS	ELMEASURE / ELECTREX /CONSERV

69	MULTI DATA METER (MDM WITH RS-485 PORT)	ELMEASURE / ELECTREX /CONSERV
70	INSTRUMENT TRANSFORMERS	KAPPA / KALPA / SIEMENS
71	PROTECTION RELAYS	ABB / CSPC / SCHNEIDER
72	TERMINAL BLOCK	ELMEX/ CONNECTWELL
73	SPD	SCHNEIDER / SIEMENS / OBO BATTERMANN
74	CONTACTORS	ABB / TELEMECANIQUE / SCHNEIDER
75	M.S. CONDUIT	SUPREME /BHARATH /GB
76	PIR SENSOR	PHILIPS / WIPRO / SCHNEIDER
77	DAYLIGHT SENSOR	PHILIPS / WIPRO / SCHNEIDER
78	BALLAST	PHILIPS / WIPRO
79	INDUSTRIAL METAL CLAD PLUG & SOCKET	MDS LEGRAND /NEPTUNE/GEWISS
80	POLYCARBONATE INDUSTRIAL PLUG & SOCKET	CLIPSAL/MDSLEGRANS / NEPTUNE / GEWISS/MENEKES
81	BATTERIES	PANASONIC/C&D/ROCKET KOREA
HVAC		
1	AC UNIT	LG / CARRIER / BLUESTAR
2	COPPER PIPING	PARASMANI
3	CABLE	POLYCAB
4	DRAIN PIPE	PRINCE / KISSAN
5	GALVANISED IRON	JINDAL
6	AIR DIFFUSER / GRILL	SYSTEMAIR / COSMOS / CARRYAIR
7	NITRILE RUBBER INSULATION	KFLEX / ARMACELL / AEROFLEX
8	SEQUENTIAL CONTROLLER	AIRCON CONTROL / SMART
9	INLINE FAN	CARRYAIR
10	AIR CURTAIN	RUSSELL

FIRE & SECURITY		
1	FIRE ALARM SYSTEM	NOTIFIER/ EDWARDS / SIMPLEX / HONEYWELL MORLEY
2	PUBLIC ADDRESS SYSTEM	AHUJA / BOSCH PRAESIDEO / HONEYWELL INTEVIO / ATEIS
3	SPRINKLER SYSTEM	TYCO/JINDAL
4	ACCESS CONTROL SYSTEM	ESSL / SPECTRA / KANTECH/HONEYWELL/HID
5	IP CCTV SYSTEM	VIVOTEK / HONEYWELL / HIKVISION
6	GAS SUPPRESSION SYSTEM	KIDDE/ANSUL/HONEYWELL UL LISTED
7	FIRE EXTINGUISHER	KANEX/MINIMAX/CEASEFIRE
8	RODENT REPELLENT SYSTEM	RSCAT
9	DIGITAL WATER LEAK DETECTION	SYNOPSIS/SONTAY/WATER DETEC
10	SIGNAGES	AUTOGLOW/PROLITE
11	HSSD	HONEYWELL/AIRSENSE / XTRALIS
12	CCTV	HIKVISION
13	FIRE EXTINGUISHER	SAFEX
14	RODENT REPELLENT SYSTEM	RSCAT / SYNOPSIS
15	DIGITAL WATER LEAK DETECTION	SYNOPSIS
16	NOVEC GAS SUPPRESSION	XTRALIS
INTERIOR		
1	PLYWOOD	GREEN, CENTURY.
2	VENEERS	JALARAM / KIT PLY / ANCHOR/ DURO/ DURIAN/ MAYUR
3	LAMINATE	GREEN / CENTURY / MERINO
4	HARDWARE	GEZE / HETTICH / DORMA
5	ADHESIVE	FEVICOL / VAMICOL / ARALDITE
6	ADHESIVE	ARALDITE

7	PAINT	ASIAN / ICI / NEROLAC
8	WOOD PRESERVATIVES	JAPAN BLACK
9	CABINET LOCKS	GEZE / HETTICH / DORMA
10	DOOR/STORAGE HANDLES	OZONE / ENOX / EBCO
11	PARTITION FRAMEWORK	JINDAL/ NALCO
12	MDF	ACTION/ ASIS / GREEN
13	ROCKWOOL	UP TWIGA/ OWENS CORNING OR EQUIVALENT
14	LACQUERED GLASS	SAINT GOBAIN / ASAHI
15	WRITABLE FILM	3M / GARWARE / LUMAR
16	FABRIC	RESPONSE / CLASSIC / SAROJ
17	MIRROR	SAINT GOBAIN / ASAHI
18	FIRE DOOR	SHAKTIMATE/ MATRIX / STRATEGIC
19	GRID CEILING	ARMSTRONG / AMF
20	AXIOM PERIMETER	ARMSTRONG / AMF/ ECOPHONE/ NITTOBO
21	BAFFLE CEILING	ARMSTRONG / AMF/ ECOPHONE/ NITTOBO
22	WATER-PROOFING	ROFF-HYSEAL / PRO-EXCEL / FOSROC CONBEXTRA SOLUTION /CISCO/ STP EQUIVALENT
23	SINK	NIRALI
24	PLUMBING FITTING	HINDWARE / JAQUAR /PARRYWARE
25	SANITARYWARE	HINDWARE / JAQUAR /PARRYWARE
26	SOAP DISPENSER	EURONICS/ JAGUAR / PARRYWARE
27	HAND DRYER	EURONICS/ JAGUAR / PARRYWARE
28	TISSUE DISPENSER	EURONICS/ JAGUAR / PARRYWARE
29	TOILET PAPER HOLDER	EURONICS/ JAGUAR / PARRYWARE
30	TWO-WAY ROBE HOOK	EURONICS/ JAGUAR / PARRYWARE
31	TOWEL ROD	EURONICS/ JAGUAR / PARRYWARE

32	URINAL DIVIDER HARDWARE	ENOX/ OZONE
33	TOILET CUBICLE	MERINO
34	ROLLER BLINDS	MARVEL / MAC / VISTA
35	FALSE FLOORING	UNITILE / UNITED INSULATION / PROJECT INTERIORS
36	CARPET	EURONICS WELSPUN
37	MELAMINE POLISH	PIDILITE, ASIAN
38	PEST CONTROL	PCI
39	WOOD	SALWOOD, TEAK WOOD.
40	GLASS	ASAHI/SAINT GOBAIN OR EQUIVALENT
41	GLAZED CERAMIC TILES	KAJARIA/NITCO/JOHNSON
42	VITRIFIED TILES	KAJARIA/NITCO/JOHNSON/EURO
43	GI PIPES	TATA, ZENITH
44	GYPSUM BOARDS	LAFARGE/SAINT GOBAIN
45	WOODEN FLOORING	EURO, PERGO, INNOVER
46	LOCKERS / COMPACTOR / SLOTTED ANGLE RACK	MOBISTOR, GODREJ, KOMPRESS, STEELEDGE
47	WALLS	SIPOREX / AEROCON OR EQUIVALENT
48	CEMENT	L & T / NARMADA / AMBUJA/ ULTRATECH
49	WHITE CEMENT	BIRLA / JK
50	KITCHEN EQUIPMENT	GAYATRI FABRICATION WORK / PRIME KITCHEN EQUIPMENT
51	GLASS PARTITION	OTIC / ALLOY / ICON /VEDIC
52	SKIRTING	BOTTOMLINE / ENSEMBLE / OTIC / VEDIC
53	SLIDING FOLDING PARTITION	MALROX / MODWAL
54	SIGNAGE	PRO-LITE / SIGNTEN
55	MODULAR	WIPRO / FEATHERLITE / SPACEWOOD / PSL

56	CHAIRS & SOFA	WIPRO / FEATHERLITE / SPACEWOOD / LILA DÉCOR / AMARDEEP
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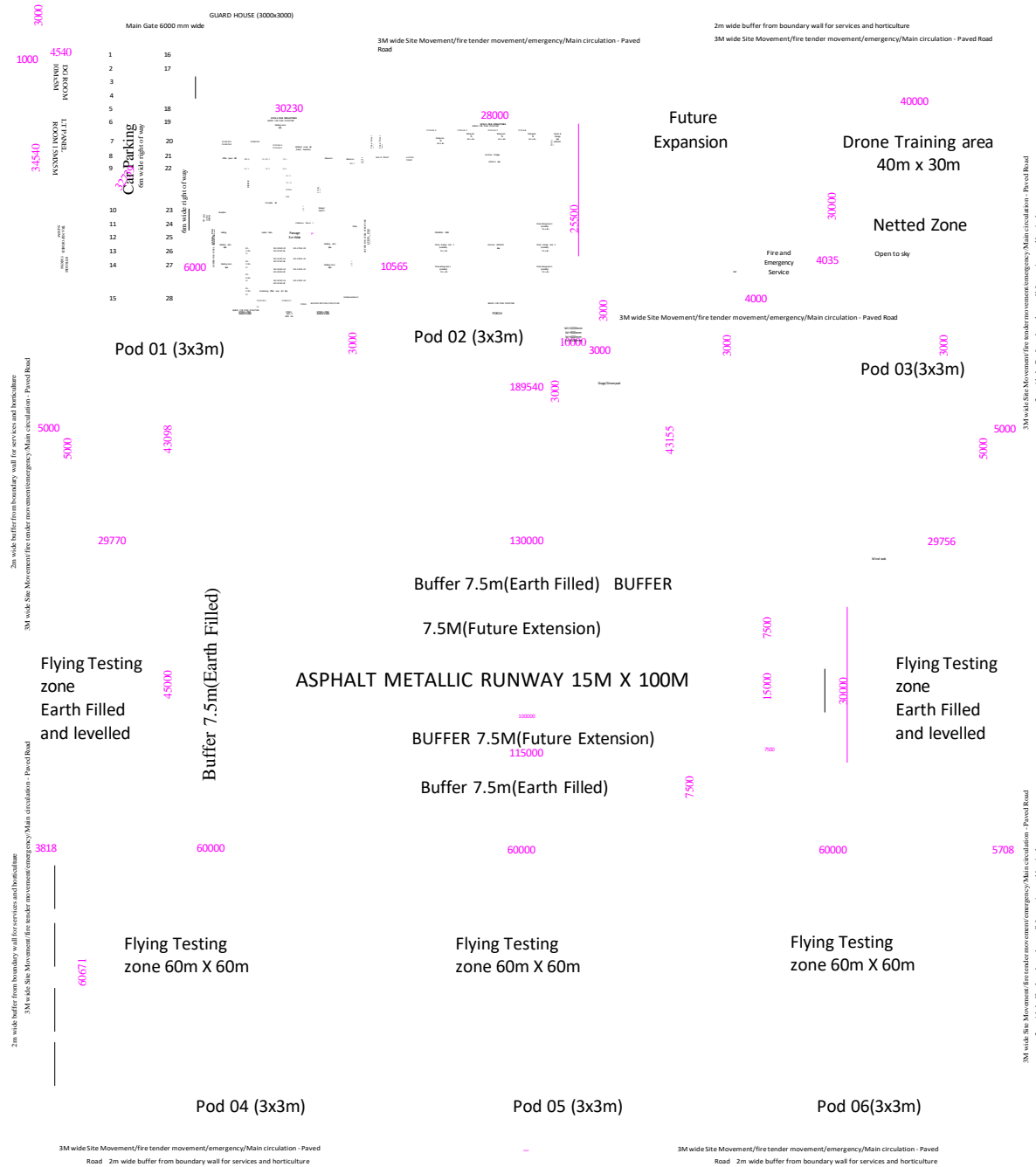
ANNEXURE 2A: ABSTRACT OF FURNITURE COST : BOQ/ESTIMATE SUMMARY

			Escalation if any(Mention below the percentage)	TOTAL AMOUNT IN INR
2A1	Item of Works for Modular Items		0.00	
2A2	Item of Works for Loose Furniture		0.00	
	Grand Total	0	0	0

Notes:

TITLE	ANNEXURE NO.
ANNEXURE CATEGORY 1: DRAWINGS	
Ground Floor Plan	1.3
Incubation and Administration building Interior Layout	1.5
Testing Lab Interior Layout	1.6
Battery Storage Interior Layout	1.7
Fuel Storage Interior Layout	1.8
Guard Room Details	1.13
DMT (Drone Monitoring Tower)	1.14
Incubation and Administration building - Furniture Layout	1.15
Testing Lab - Furniture Layout	1.15A
Guard Room - Furniture Layout	1.15B

ANNEXURE: 1.3



I SITE AREAS: (REFER Annexure 1.1,1.2)							
S.no	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
1	Total Site area	-	200	200	40000	430560	N/A
	b Ground Coverage (All Built-up areas)	-			2453.22	26406.46008	N/A
	c Ground Coverage %				6.13%		N/A
2	Road Area(Circulation)	1.1				15,922.32	N/A
3	Main Paver areas	1.2			5991.108324	64488.29	N/A
4	Parking Zone	1.2	38	18	684	7387.2	N/A
5	Guard Room	1.13	3	3	9	97.2	9-10
6	High side services(Electric sub station, DG set,)	1.2	34.5	4.5	155.25	1676.7	12-15
7	Admin and Incubation centre	1.5	30	25	750	8100	13 from centre
8	Testing Zone	1.6	28	25	700	7560	16 from centre
9	Netted zone	1.9	40	30	1200	12960	20
10	DMT	1.14	6	6	36	388.8	45
11	Flying Zone(Complete)	1.2	-	-	28197	304527.6	Varies
12	Asphalt Road	1.2	100	15	1500	16200	N/A
13	Stepped sitting	1.2	10	3	30	324	4
14	Battery storage	1.7	5	5	25	270	10
15	Fuel Storage	1.8	5	5	25	270	10
16	Pods	1.2	3	3	9	97.2	8
17	Guard Washrooms	1.16	2.7	1.6	4.32	46.656	9
18	Washroom	1.16	10.5	5.3	55.65	601.02	9

LEGEND

1. PAVER
2. ASPHALT ROAD
3. PLANTATION
4. DRONE TRAINING AREA- GRASS
5. EARTH FILLED AND LEVELED



26.11.2024

Rev: 05

Drawn By: Suman

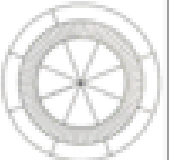
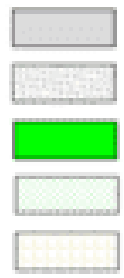
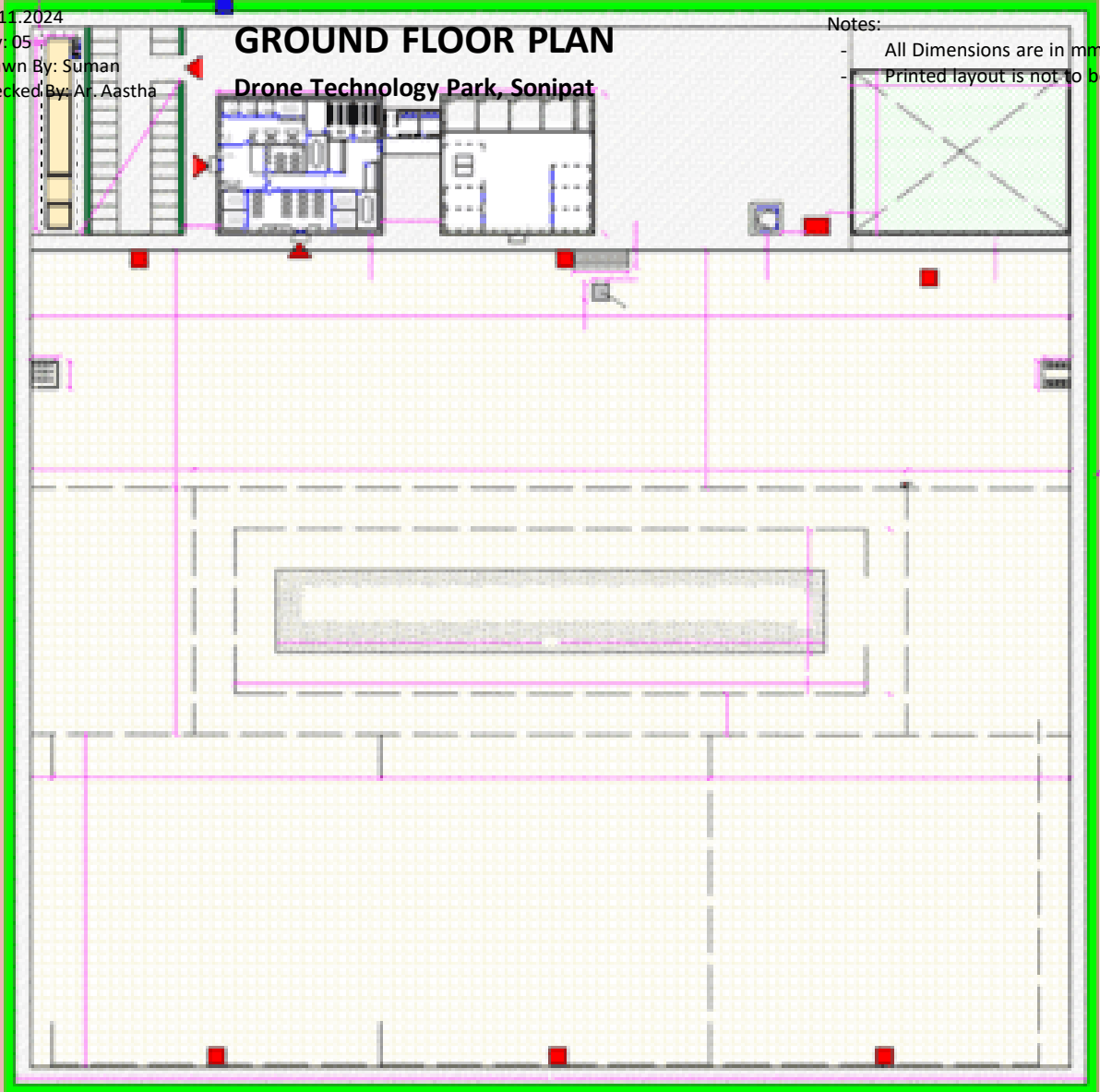
Checked By: Ar. Aastha

GROUND FLOOR PLAN

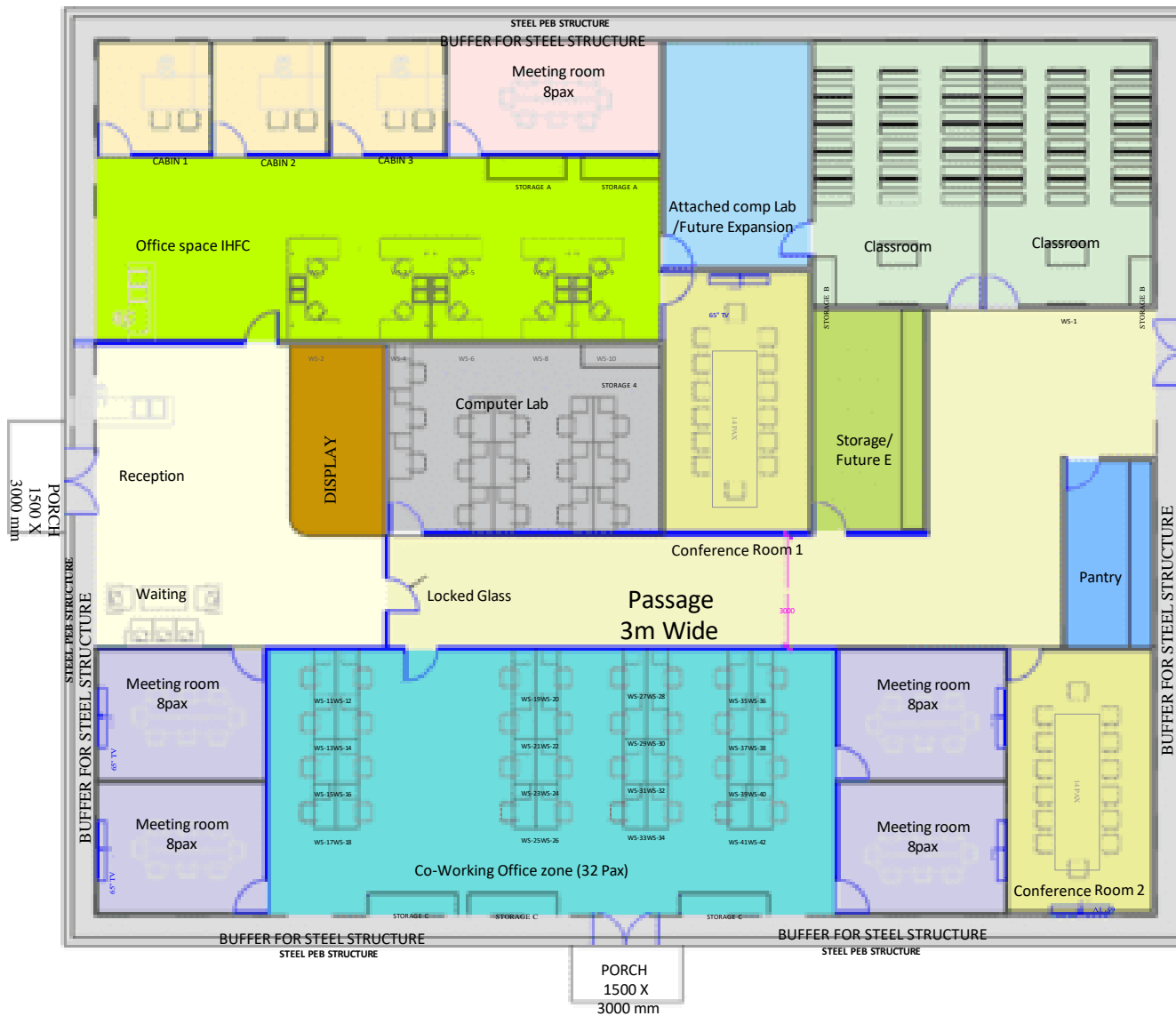
Drone Technology Park, Sonipat

Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.5



Sl. No	Rooms	Area	Area	Area	Area	Height (in Ft)
ADMINISTRATION AND TECH BUILDING CENTER						
1	Main Reception & Waiting	8.3	8.3	88.7	752.76	10
2	Display area	1.56	5.17	1.8386	147.87	10
3	Circulation and Passage	76.5	76.5	88.4	733.12	10
4	IBFC Office	0	0	0	0.00	10
a	Cabin 1	3.1	3.1	8.62	188.79	10
b	Cabin 2	3.1	3.1	8.62	188.79	10
c	Cabin 3	3.1	3.1	8.62	188.79	10
d	Meeting room 1 - 8pax	5.7	5.1	87.67	158.64	10
e	Workstation Zone	12	48	58.8	431.84	10
f	Conference Room 1 - 14 Pax	7.3	4.1	28.42	118.47	10
g	Computer Lab /Miscellaneous room	6.3	6.9	24.18	261.14	10
5	Courtyard /Open area	0	0	0	0.00	10
a	Meeting Room 1 - 8pax	4.6	3.3	34.1	173.88	10
b	Meeting Room 2 - 8pax	4.6	3.3	34.1	173.88	10
c	Meeting Room 3 - 8pax	4.6	3.3	34.1	173.88	10
d	Meeting Room 4 - 8pax	4.6	3.3	34.1	173.88	10
e	Conference Room 2 - 14 Pax	7.3	3.7	28.44	287.71	10
f	Workstation Zone	13.2	7.8	111.50	1288.42	10
6	Classroom 1	7	4.7	31.9	303.12	10
7	Classroom 2	7	4.7	31.9	303.12	10
8	Computer Lab - 12 Pax	7.5	5.2	38	421.20	10
9	Storage	6	3.1	31.6	286.88	10
10	Pantry	1.56	5.17	1.8386	147.87	10

LEGEND

1. MAIN RECEPTION & WAITING DISPLAY AREA
2. CIRCULATION & PASSAGE
3. CABIN 1,2,3 IHFC ZONE
4. WORKSTATION ZONE
5. CONFERENCE ROOM 1,2 (14 PAX) COMPUTER LAB/MISCELLANEOUS ROOM MEETING ROOM 1, 2, 3
6. ,4, 5 (8 PAX) WORKSTATION ZONE
7. CLASSROOM 1,2
8. COMPUTER LAB
9. STORAGE PANTRY

26.11.2024
 Rev: 05
 Drawn By: Suman
 Checked By: Ar. Aastha

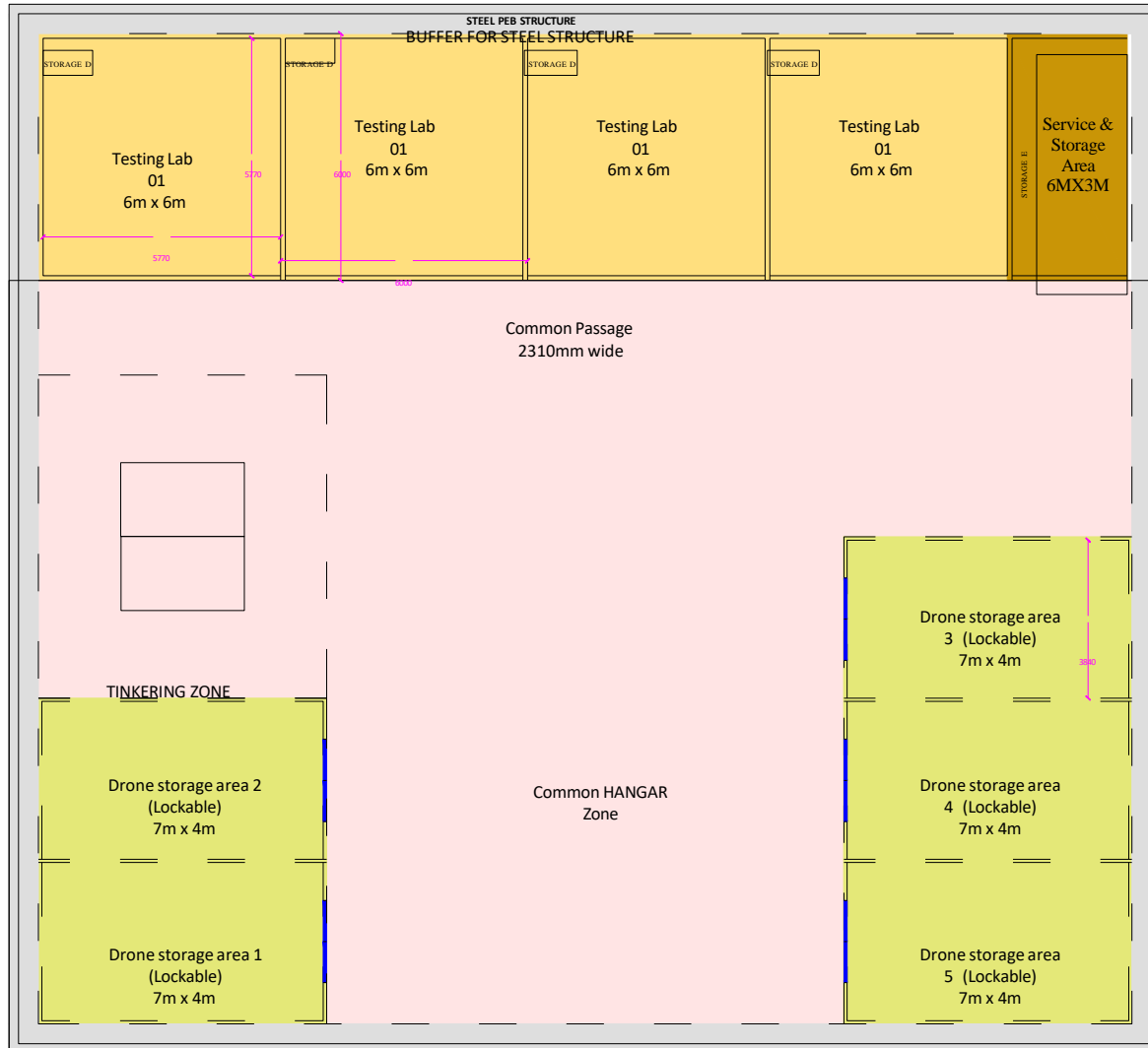
INCUBATION AND ADMINISTRATION BUILDING INTERIOR LAYOUT

Drone Technology Park, Sonipat

Notes:
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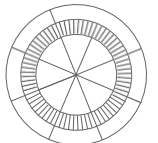
ANNEXURE: 1.6



1 SITE AREAS						
S.no	Spaces	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
1	Testing Lab 01	6	6	36	387.504	13
2	Testing Lab 02	6	6	36	387.504	13
3	Testing Lab 03	6	6	36	387.504	13
4	Testing Lab 04	6	6	36	387.504	13
5	Services and storage	6	3	18	193.752	13
6	Drone storage area 1	7	4	28	301.392	Full
7	Drone storage area 2	7	4	28	301.392	Full
8	Drone storage area 3	7	4	28	301.392	Full
9	Drone storage area 4	7	4	28	301.392	Full
10	Drone storage area 5	7	4	28	301.392	Full
11	Common Hangar zone	15.7	10.4	163.28	1757.54592	Full
12	Tinkering zone	7.8	7	54.6	587.7144	Full
13	Circulation and Passages	N/A	N/A	64.7	696.4308	Full

LEGEND

- 1. TESTING LAB 1,2,3,4
- 2. SERVICE & STORAGE
- 3. DRONE STORAGE 1,2,3,4,5
- 4. TINKERING ZONE COMMON
- 5. HANGER ZONE CIRCULATION &
- 6. PASSAGE



TESTING LAB INTERIOR LAYOUT

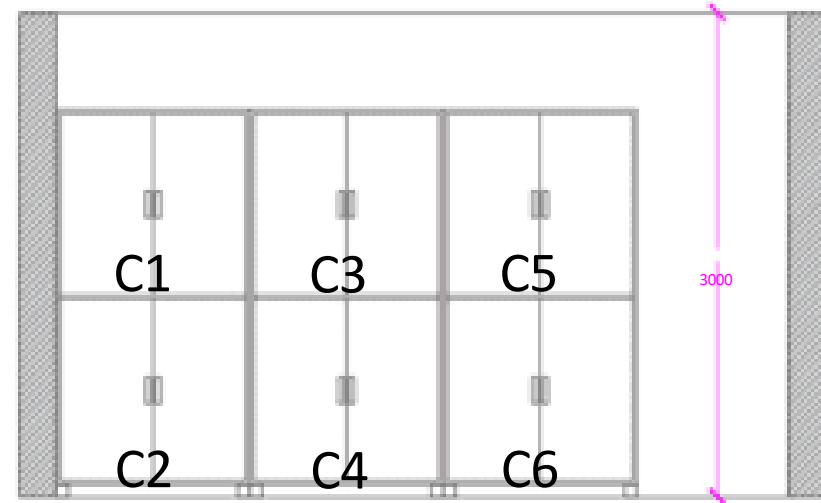
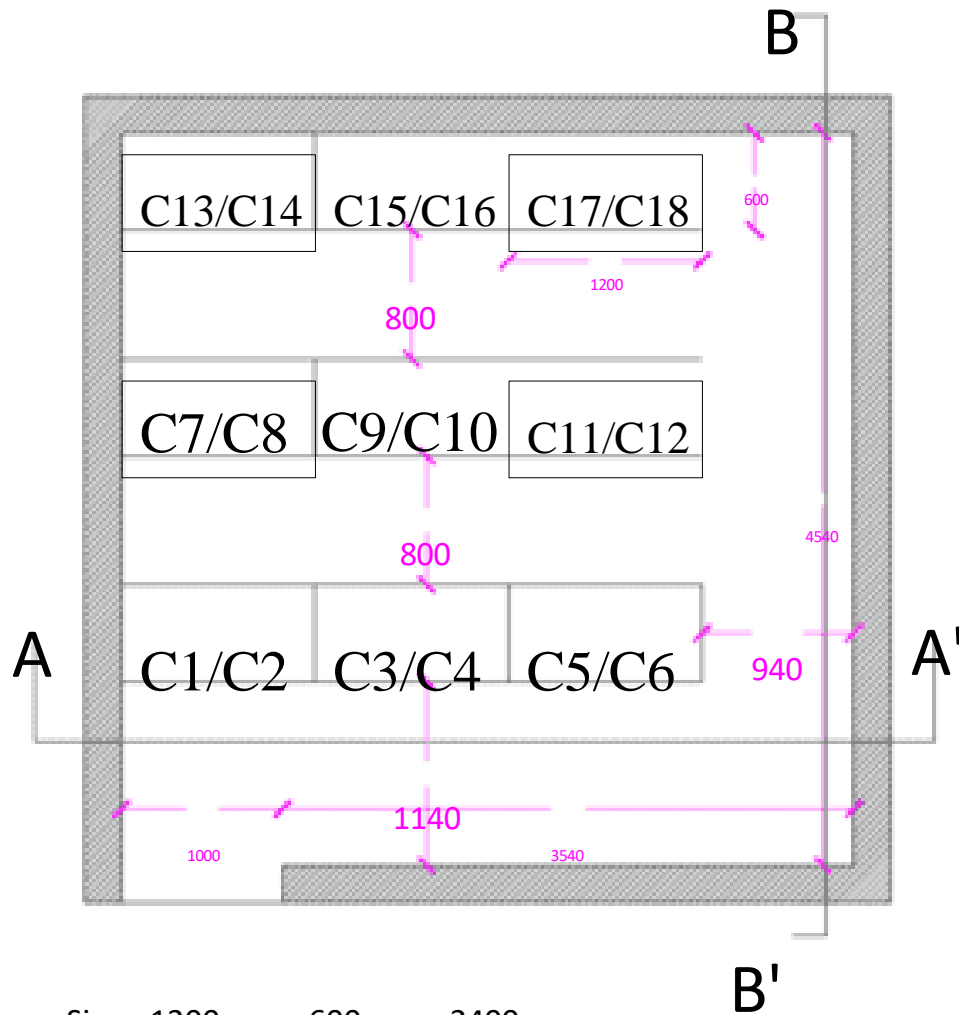
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Notes:

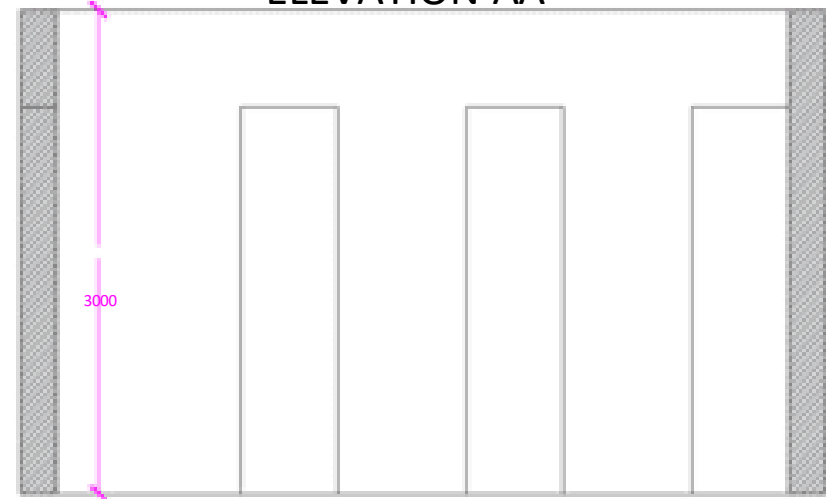
- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.7



ELEVATION AA'



ELEVATION BB'

Size - 1200mm x 600mm x2400mm
 Divided by 2 sections of : 1200x600x1200 each up and down.
 25mm Thick Prelaminate Particle
 E1 Grade Board with PVC edge banding
 table as per referal Image
 Provision of Lock



BATTERY STORAGE INTERIOR LAYOUT

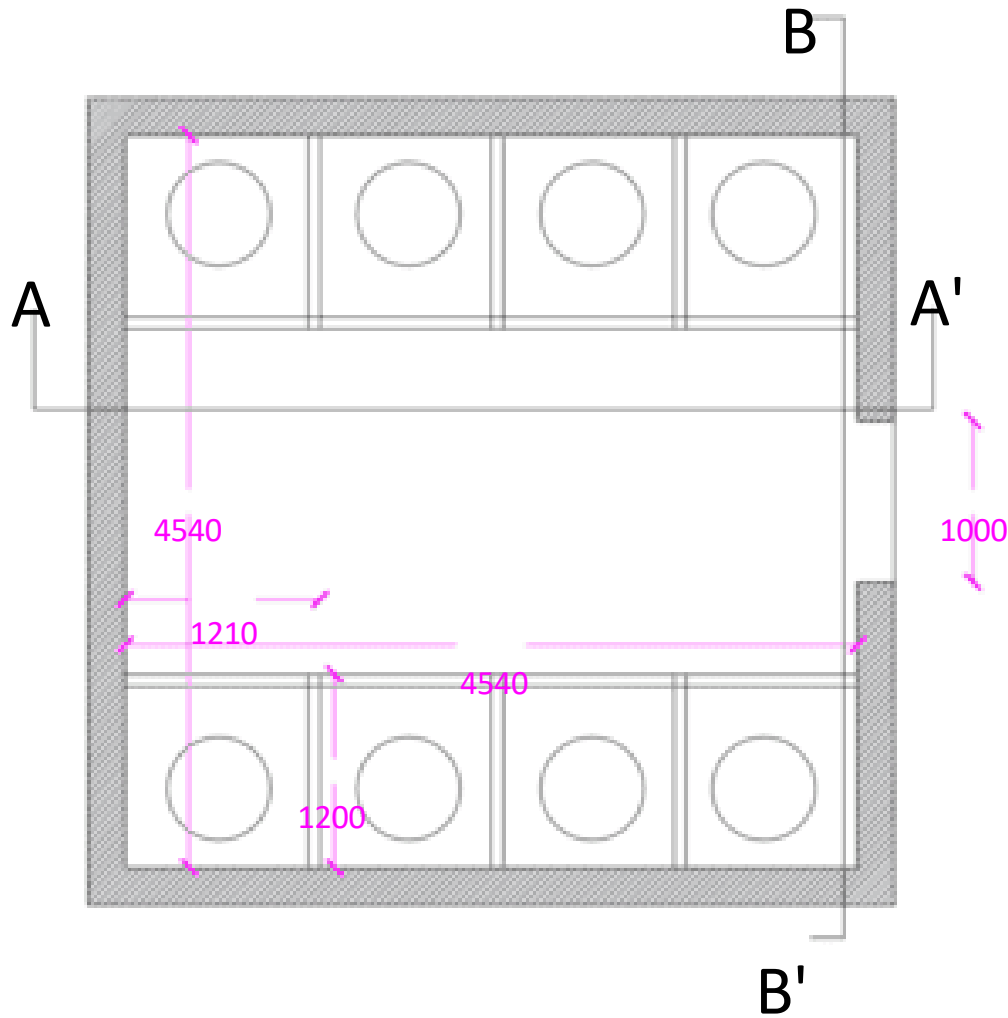
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Notes:

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- Printed layout is not to be scaled.



ANNEXURE: 1.8



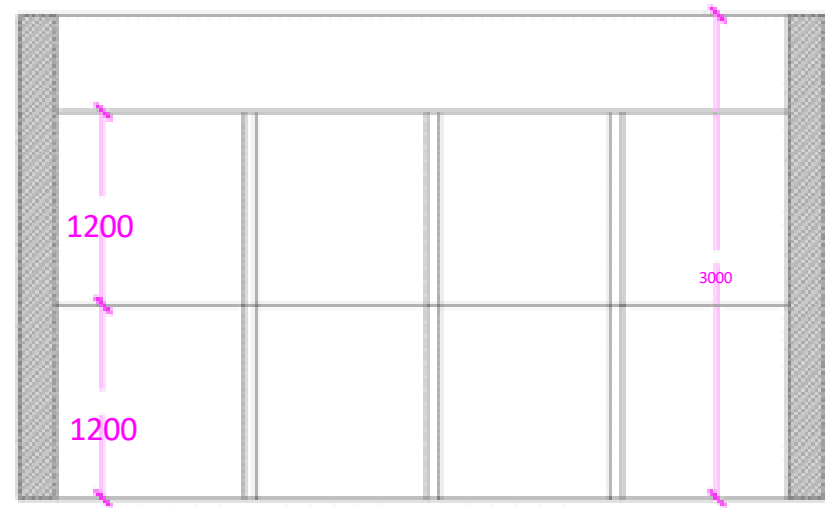
Size - 5000 x 5000mm

Provision of single stepped entry, at a raised level of 450mm from GL.

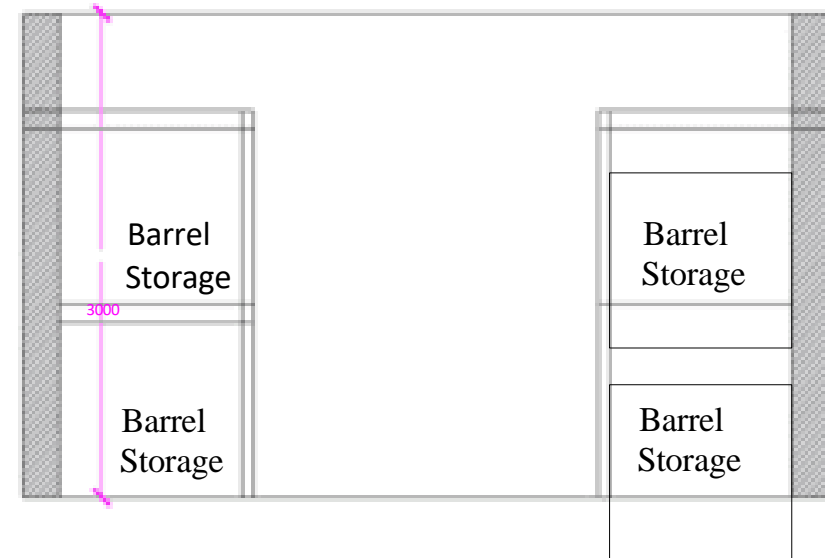
1 Door and 1 Window opening for ventilation

Creation of brick/cement slabs for keeping the barrels.

Total 16 Barrel of Dia - 620mm



ELEVATION AA'



ELEVATION BB'



FUEL STORAGE INTERIOR LAYOUT

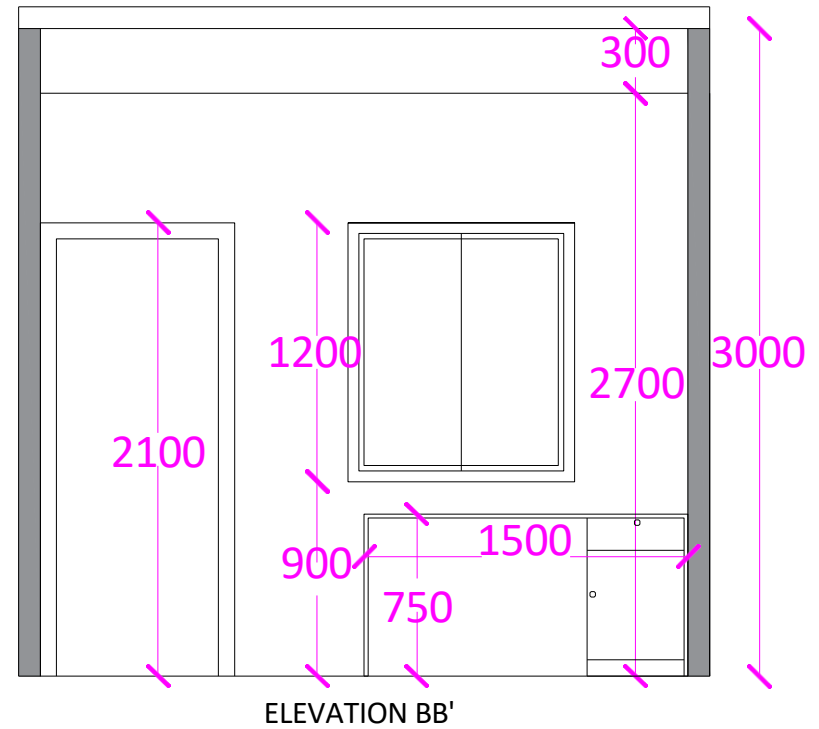
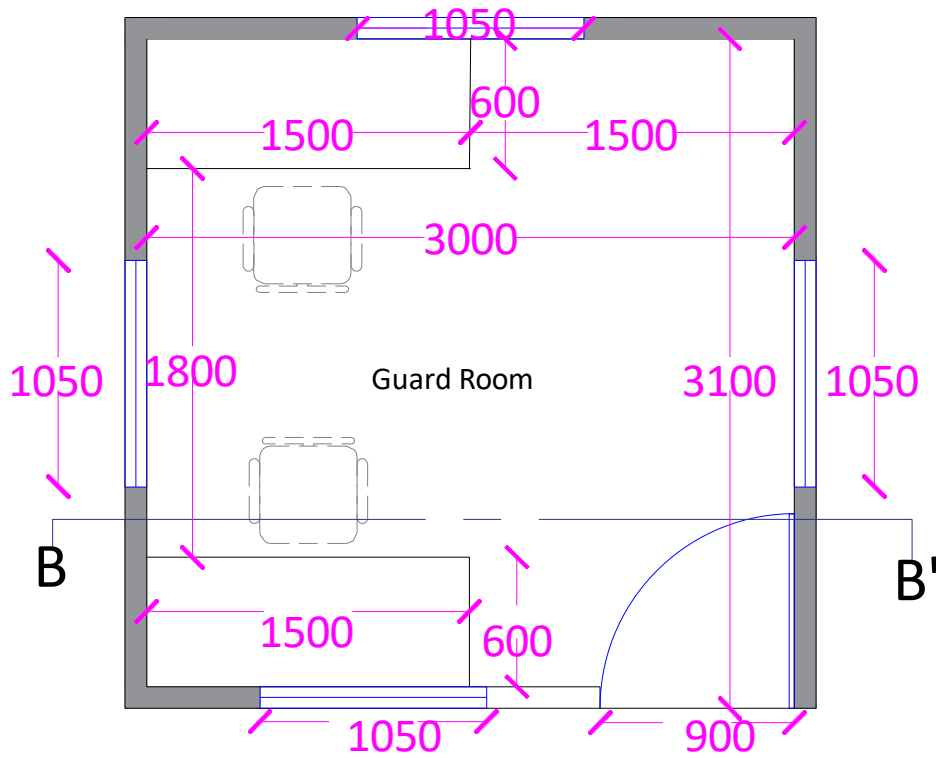
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Notes:

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ANNEXURE: 1.13



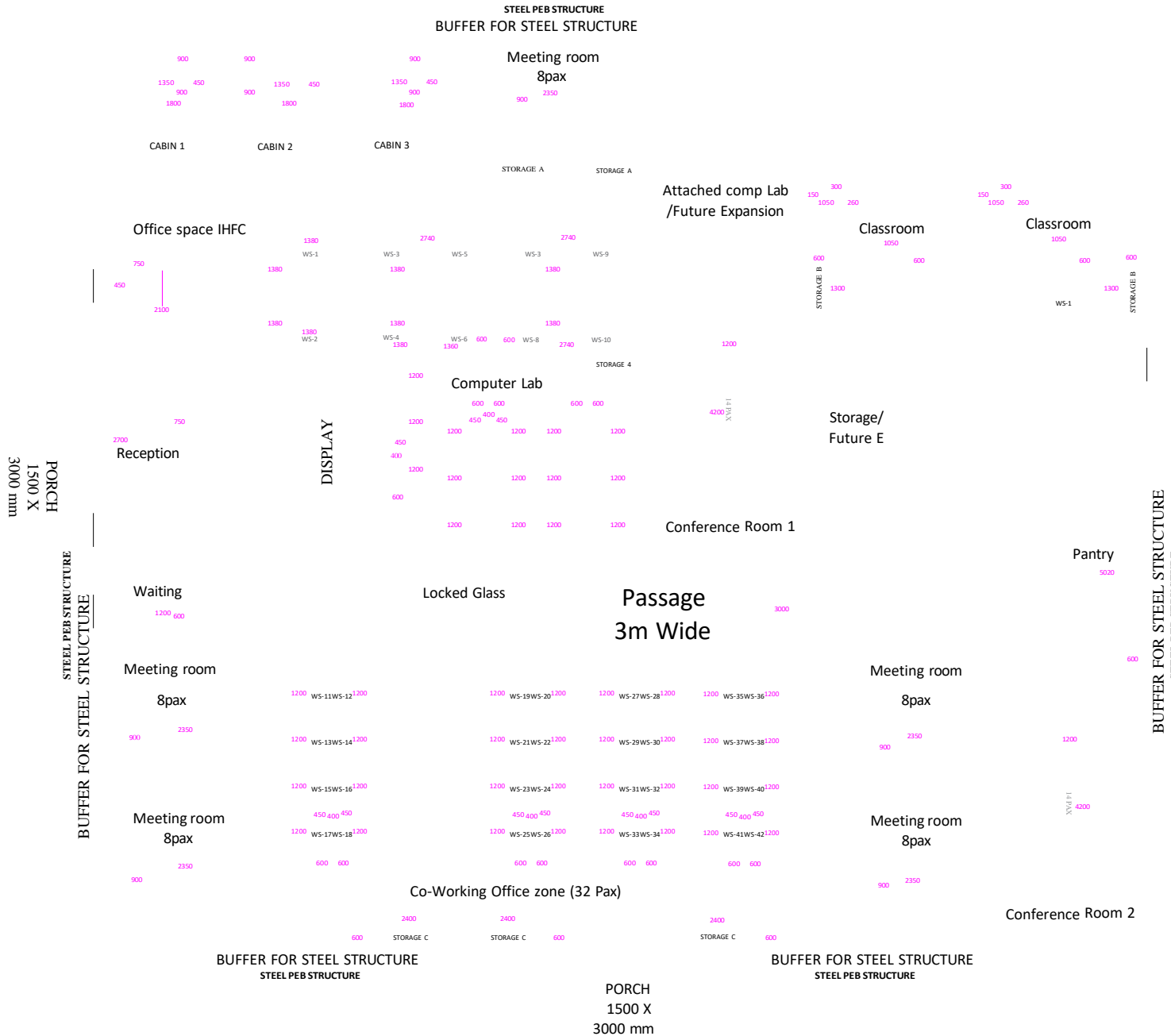
26.11.2024
 Rev: 05
 Drawn By: Suman
 Checked By: Ar. Aastha

GUARD ROOM DETAIL
 Drone Technology Park, Sonipat

- Notes:
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 - Printed layout is not to be scaled.



ANNEXURE: 1.15

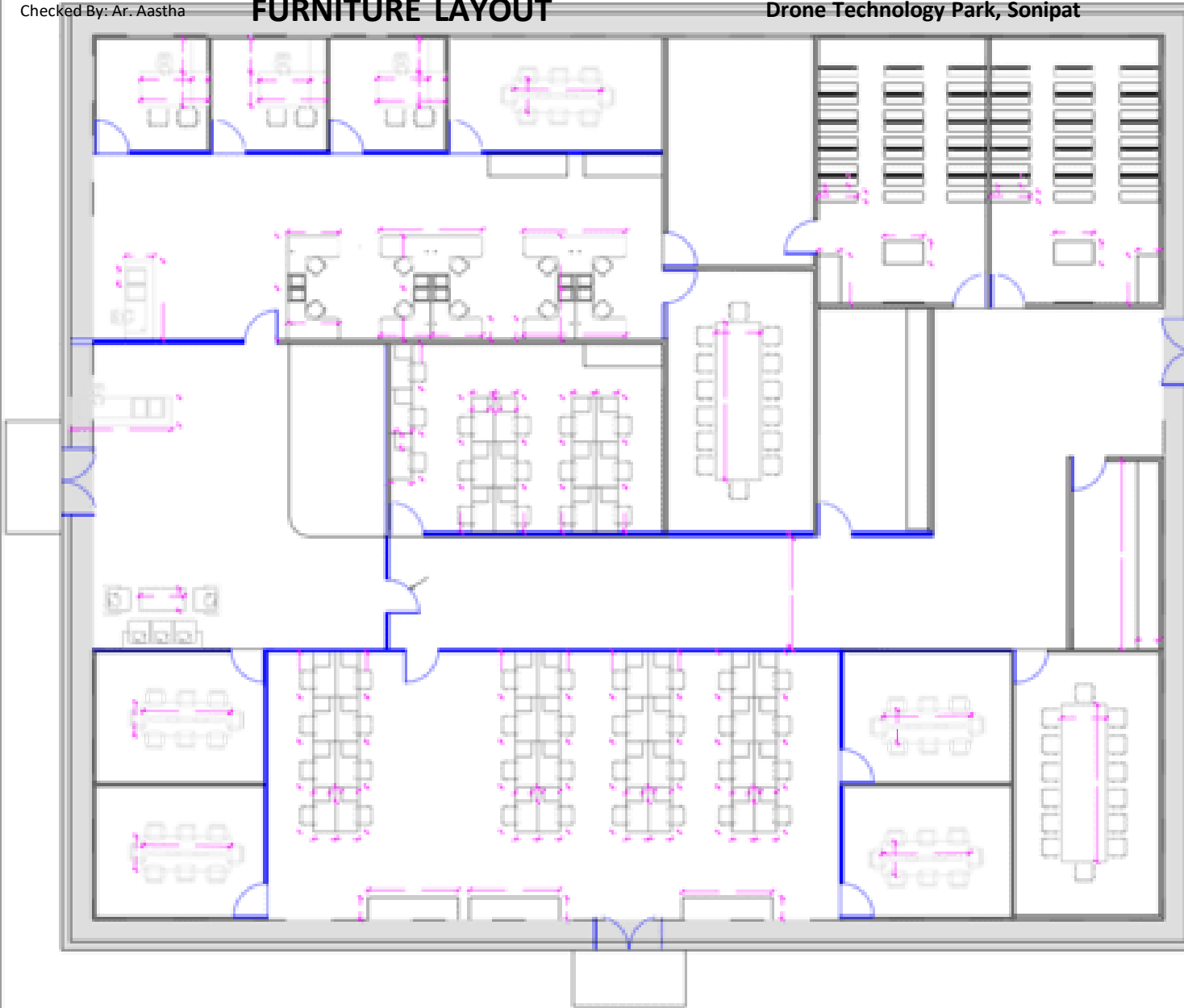


FURNITURE TABLE

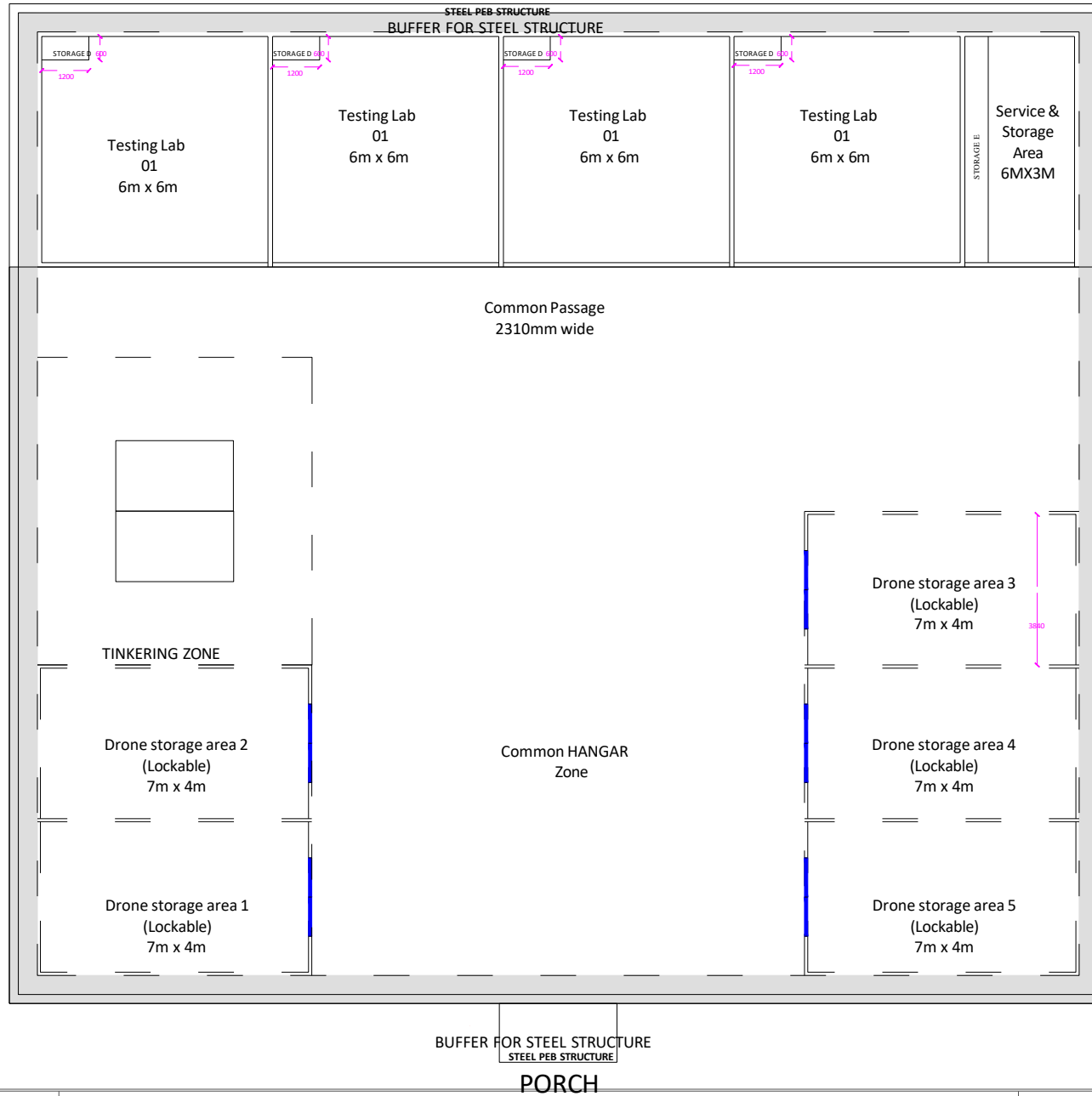
- No. of workstations - 32
(1200mm x 600mm)
- L-Shape Workstation - 10
- No. of Pedestals - 57
- No of Reception - 2
- Cabin Table - 3
- Cabin Chair - 3
- Conference Table (14 Pax) - 2
- Meeting Table (8 Pax) - 5
- Conference/Meeting Chairs - 68
- Classroom Benches - 30
- Classroom Main table - 2
- Computer Lab Table - 15
- Office chair - 68
- Storage A - 2
- Storage B - 2
- Storage C - 3



FURNITURE LAYOUT



ANNEXURE: 1.15A

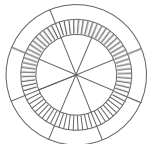


FURNITURE TABLE

Storage D - 4

Storage E - 1

Tinkering zone table - 2



TESTING LAB ZONE INTERIOR LAYOUT

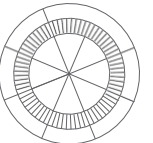
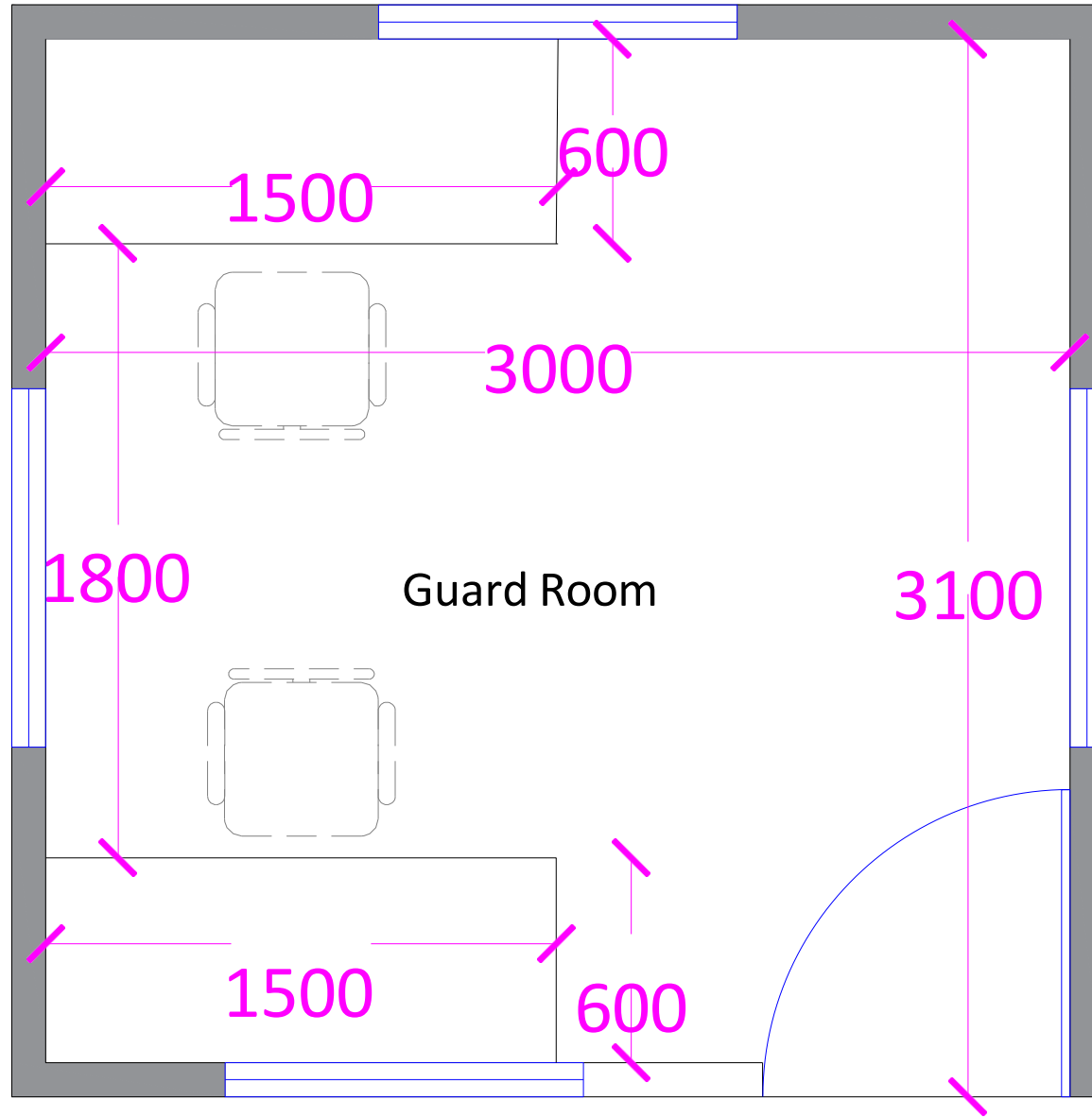
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Notes:

- All Dimensions are in mm
- Printed layout is not to be scaled.



ANNEXURE: 1.15B



GUARD ROOM FURNITURE LAYOUT

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Notes:




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ANNEXURE CATEGORY 2A: DOCUMENTS	
TITLE	ANNEXURE NO.
Abstract of Furniture costs (2A1, 2A2)	2A
Detailed Item of Works for Modular Furniture Items	2A1
Detailed Item of Works for Loose Furniture Items	2A2
Areas and Dimensions Chart	2.1
List of Makes and Finishes	2.9

ANNEXURE 2A1: Detailed Item of Works for Modular Furniture Items





To be filled by Contractor



S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos. / Area	Unit	Cost per Unit	Escalation if Any in %	Total
1	<p>GUARD ROOM TABLE with attached Pedestal Size: LXBXH - 1500X600X750 mm TABLE TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm.</p> <p>Pedestal to be attached with the table bottom Supply and installation of the material to be included.</p>	Guard Room		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	2	Nos.			
2	<p>RECEPTION TABLE: ADMIN BUILDING Size: LXBXH - 2700X750X750 mm 25 mm thk prelam particle board table top with pvc edge banding, table top supported by 18mm thick gablend. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Supply and installation of the material to be included.</p>	Admin block		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
3	<p>COMPUTER LAB TABLE Size: LXBXH - 1200X600X750 mm</p> <p>TABLE TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Under Storage not required. Supply and installation of the material to be included.</p>	Computer Lab		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	15	Nos.			

4	<p>CONFERENCE ROOM (20 PAX) Size: LXBXH - 5400X1800X750 mm</p> <p>36 mm thk prelam particle board table top with pvc edge banding, table top LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Wire management : Metal fliptop box of size 450mm width fixed above table top for wire management and a special flexible rubber component that allows easy and safe passage of wires. Switches will be mounted in the fliptop box above table top. total 3 Flipboxes each, with a provision of HDMI, and sockets Supply and installation of the material to be included.</p>	Conference room 1 and 2		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	2	Nos.			
5	<p>MEETING ROOM (8 PAX) Size: LXBXH - 2400X900X750 mm</p> <p>Table top : 36 mm thk prelam particle board table top with pvc edge banding, table top LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Wire management : Metal fliptop box of size 450mm width fixed above table top for wire management and a special flexible rubber component that allows easy and safe passage of wires. Switches will be mounted in the fliptop box above table top. total 2 Flipboxes each, with a provision of HDMI, and sockets Supply and installation of the material to be included.</p>	Meeting room 1 to 8		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	5	Nos.			
6	<p>CO-WORKING SPACE WORKSTATION Size: LXBXH - 1200X600X750 mm TABLE</p> <p>TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image SCREEN : Magnetic Fabric Screen 18mm WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Supply and installation of the material to be included.</p>	Co-working zone		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	32	Nos.			

7	<p>Standard Pedestals 450 x 400 x 750(bottom of table) Providing and fixing of 2D+1FD Pedestal in 18mm Thk Particle Board & Centre Locking of Size 400*450*630 mm Supply and installation of the material to be included.</p>	Workstation Zones of IHFC and Co-working		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	54	Nos.			
8	<p>RECEPTION TABLE - IHFC Size: LXBXH - 2100X750X750 mm 25 mm thk prelam particle board table top with pvc edge banding, table top supported by 18mm thick gablend. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Supply and installation of the material to be included.</p>	IHFC Office		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
9	<p>WORKSTATION TABLE: IHFC Size: LXBXH - 2700X1400X750 TABLE TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image SCREEN : Magnetic Fabric Screen 18mm WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Supply and installation of the material to be included.</p>	IHFC Office		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	10	Nos.			

10	<p>CABIN MAIN TABLE: IHFC Size: LXBXH - 1800X600X750 mm</p> <p>25mm thk prelam particle board table top with pvc edge banding, table top & side unit . Understructure : Legs made of 50x50 square pipes/ 60*10 loop leg with tie made of 40x80 rectangular section, 1.6mm thick. All crca components are powder coated for longevity of life. Mast leg combination of crca components, 1.6mm thick wall, 0.8mm thick cover and 3 mm thick brackets. beams combination of crca components, 1.6mm thick wall and 3 mm thick brackets. Wire management : Metal floptop box of size 450mm width fixed above table top for wire management and a special flexible rubber component that allows easy and safe passage of wires. Switches will be mounted in the floptop box above table top. Supply and installation of the material to be included.</p>	IHFC Office		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	3	Nos.			
11	<p>CABIN SIDE TABLE : IHFC Size: LXBXH - 1800X450X700 mm</p> <p>Providing and Fixing of Drawers and Shutter with in 18 mm thick Prelam particle Board as per design Supply and installation of the material to be included.</p>	IHFC Office		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	3	Nos.			
12	<p>CLASSROOM BENCH Size: LXBXH - 1200X600X750 mm TABLE</p> <p>TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. Supply and installation of the material to be included.</p>	Classroom		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	30	Nos.			
13	<p>Battery storage Cupboards Size - 1200mm x 600mm x2400mm</p> <p>Divided by 2 sections of : 1200x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Battery storage Room		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	9	Nos.			







14	<p>DMT CHAMBER TABLE Table 1: Size - LXWXH - 1870X600X750 mm Table 2: Size - LXWXH - 2770X600X750 mm Table 3: Size - LXWXH - 3070X600X750 mm TABLE TOP : 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image SCREEN : Magnetic Fabric Screen 18mm WIRE MANAGEMENT : MS-POWDER COATED wire tray WITH switch plate 150D/300D*120H below the table top and 500Wx120D Aluminium Flip-up soft closure With Anodized Finish Provision on table top is considered. LEG : Leg to Leg Beam will be made of Aluminum extruded powder coated with Trapezoidal cross section of size 55 x 40 x 65mm. NOTE: The curve as per design and dwg approved by the architect Supply and installation of the material to be included.</p>	DMT		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
15	<p>STORAGE UNIT TYPE A Size- LXBXH - 2100x600x2400 Divided by 4 sections of : 2100x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	IHFC Workstation-2		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	2	Nos.			
16	<p>STORAGE UNIT TYPE B Size- LXBXH - 1300x600x2400 Divided by 2 sections of : 1300x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Classroom 1 - 1 Classroom 2 - 1		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	2	Nos.			
17	<p>STORAGE UNIT TYPE C Size- LXBXH - 2400x600x2400 Divided by 4 sections of : 2400x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Co-working space workstation-3		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	3	Nos.			

18	<p>STORAGE UNIT TYPE D Size- LXBXH - 1200x600x2400 Divided by 2 sections of : 1200x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Testing Lab 1 to 4 - 1		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	4	Nos.			
19	<p>STORAGE UNIT TYPE E Size- LXBXH - 4800x600x2400 Divided by 8 sections of : 5700x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Storage room Testing zone		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
20	<p>STORAGE UNIT TYPE F Size- LXBXH - 5900x600x2400 Divided by sections of 8 : 5900x600x1200 each up and down. 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Locke Supply and installation of the material to be included.</p>	Storage room Admin block		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
21	<p>PANTRY STORAGE UNIT - OVERHEAD Size- LXWXH - 5020x300x600 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Provision of Lock Supply and installation of the material to be included.</p>	Pantry		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
22	<p>PANTRY STORAGE UNIT - UNDERCOUNTER Size- LXWXH - 5020X600X840 mm 18MM Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image, as per shop drawing Supply and installation of the material to be included.</p>	Pantry		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	1	Nos.			
23	<p>Peg board with 10 pegs - Tool board 36mm particE board Pre Laminated Particle E1 Grade Board with PVC edge banding table as per referral Image and as per shop drawing approved by the architect. Installed on MS structure framing as per design. Size - 1500 x 40mm x 2400 Supply and installation of the material to be included.</p>	Testing Lab: tinker Zone		Readymade	1	Nos.			

24	<p>Hands-on Table Size: LXWXH - 3000X1800X750 mm 25mm Thick Prelaminated Particle E1 Grade Board with PVC edge banding table as per referral Image Structure with MS in Black powder coating with hanging shelf size 600x600 mm Supply and installation of the material to be included.</p>	Testing Lab: tinker Zone		Action Tesa/Century for boards and for Hardware; either ozone or Hettich, Laminates from Merino/Tajpuria/Century	2	Nos.			
<p>Notes: 1. Any furniture for Future expansion zone in IHFC office is not proposed, as the purpose of the room is not exactly specified.</p>									

ANNEXURE 2A2: Detailed Item of Works for Loose Furniture Items

To be filled by Contractor

S.No.	ITEM OF WORKS AND DESCRIPTION	AREA/ZONE	Ref Image	MAKE/BRAND (Any from mentioned)	Qty/Nos. / Area	Unit	Cost per Unit	Escalation if Any in %	Total
3	WAITING AREA SOFA: ADMIN 1 seater sofa Providing and Fixing of Lounge chair Vegan leather fabric over a flexible flame retardant polyurethane foam with density between 25 kg/m3 and 40 kg/m3., legs in metal/steel, readymade, steel 304 grade, powder coated in black. PU Foam for sofa structure, Marandi wood frame Supply and installation of the material to be included.	Admin block		Sarom Fabric, Metal/steel leggs	2	Nos.			
4	WAITING AREA SOFA 3 seater sofa P/P 3 seater SOFA IN Marandi wood or plywood frame and full upholstery in leatherite/vegan leather fabric over a flexible flame retardant polyurethane foam with density between 25 kg/m3 and 40 kg/m3. legs in metal/steel, readymade, steel 304 grade, powder coated in black. PU Foam for sofa structure Supply and installation of the material to be included.	Admin block		Sarom Fabric, Metal/steel leggs	1	Nos.			
5	WAITING AREA CENTER TABLE Size: LXBXH - 1200X600X450 mm Structure with MS in Black powder coating Top finish with High gloss PU finish in HDHMR Board, RAL shade 1013- Oyster white, with Glass Top 5mm Glass toughened Supply and installation of the material to be included.	Admin block		Action Tesa/Century for boards and for Hardware; either ozone or Hettich	1	Nos.			
16	CHAIR High quality plastic Made of 100% Polypropylene Material Supply and installation of the material to be included.	Guard Room -3, battery storage-1, fuel storage-1, Testing lab - 10 Pantry - 1		Transteel, Neelkamal, the sleep company, Steelcase, featherlite	16	Nos.			
17	OFFICE CHAIR - ADMIN • Glass Filled nylon backrest with lumbar support & mesh fabric. • Adjustable / Fixed armrest with PP pad. • Adjustable headrest. • Synchro tilt with single position lock. • 650mm glass Filled nylon base with castors & class 4 Gas lift. Supply and installation of the material to be included.	Co-working zone-32 Computer lab-15 DMT-5 Cabin visitor's chair-6 IHFC workstation-10		Transteel, Neelkamal, the sleep company, Steelcase, featherlite	68	Nos.			
18	CONFERENCE/MEETING ROOM CHAIRS "• Multi Bend plywood with soft cushion, composite leather on seat & back. • Fix armrest with padded cushion. • Knee tilt with three position lock. • 700MM Aluminium Diecast base & 60MM nylon castors with class 4 Gas lift. Supply and installation of the material to be included.	Conference room 1 and 2 - 28 ; Meeting room 1 to 8 - 40		Transteel, Neelkamal, the sleep company, Steelcase, featherlite	68	Nos.			
19	CABIN CHAIR: IHFC • Glass Filled nylon backrest with lumbar support & mesh fabric. • Adjustable / Fixed armrest with PP pad. • Adjustable headrest. • Synchro tilt with single position lock. • 650mm glass Filled nylon base with castors & class 4 Gas lift. Supply and installation of the material to be included.	IHFC Office - 3		Transteel, Neelkamal, the sleep company, Steelcase, featherlite	3	Nos.			

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	1	Total Site area	-	200	200	40000	430560	N/A
		b Ground Coverage (All Built-up areas)	-			2453.22	26406.46008	N/A
		c Ground Coverage %				6.13%		N/A
	2	Road Area(Circulation)	1.1				15,922.32	N/A
	3	Main Paver areas	1.2			5991.108324	64488.29	N/A
	4	Parking Zone	1.2	38	18	684	7387.2	N/A
	5	Guard Room	1.13	3	3	9	97.2	9-10
	6	High side services(Electric sub station, DG set,)	1.2	34.5	4.5	155.25	1676.7	12-15
	7	Admin and Incubation centre	1.5	30	25	750	8100	13 from centre
	8	Testing Zone	1.6	28	25	700	7560	16 from centre
	9	Netted zone	1.9	40	30	1200	12960	20
	10	DMT	1.14	6	6	36	388.8	45
	11	Flying Zone(Complete)	1.2	-	-	28197	304527.6	Varies
	12	Asphalt Road	1.2	100	15	1500	16200	N/A
	13	Stepped sitting	1.2	10	3	30	324	4
	14	Battery storage	1.7	5	5	25	270	10
	15	Fuel Storage	1.8	5	5	25	270	10
	16	Pods	1.2	3	3	9	97.2	8
	17	Guard Washrooms	1.16	2.7	1.6	4.32	46.656	9
	18	Washroom	1.16	10.5	5.3	55.65	601.02	9
2 ADMINISTRATION AND INCUBATION CENTRE (REFER Annexure 1.1,1.2)								
	1	Main Reception & Waiting	1.3	8.5	8.2	69.7	752.76	10

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	2	Display area	1.3	2.56	5.35	13.696	147.92	10
	3	Circulation and Passages	1.3	N/A	N/A	86.4	933.12	10
	4	IHFC Office	1.3	0	0	0	0.00	10
	a	Cabin 1	1.3	3.1	3.1	9.61	103.79	10
	b	Cabin 2	1.3	3.1	3.1	9.61	103.79	10
	c	Cabin 3	1.3	3.1	3.1	9.61	103.79	10
	d	Meeting room 1 - 8pax	1.3	5.7	3.1	17.67	190.84	10
	e	Workstations Zone	1.3	12	4.9	58.8	635.04	10
	f	Conference Room 1 - 14 Pax	1.3	7.2	4.1	29.52	318.82	10
	g	Computer Lab/ Miscellaneous room	1.3	6.2	3.9	24.18	261.14	10
	5	Co-working office zone	1.3	0	0	0	0.00	10
	a	Meeting Room 1 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	b	Meeting Room 2 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	c	Meeting Room 3 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	d	Meeting Room 4 - 8pax	1.3	4.6	3.5	16.1	173.88	10
	e	Conference Room 2 - 14 pax	1.3	7.2	3.7	26.64	287.71	10
	f	Workstations Zone	1.3	15.2	7.8	118.56	1,280.45	10
	6	Classroom 1	1.3	7	4.7	32.9	355.32	10
	7	Classroom 2	1.3	7	4.7	32.9	355.32	10
	8	Computer Lab - 15 Pax	1.3	7.5	5.2	39	421.20	10
	9	Storage	1.3	6	3.1	18.6	200.88	10
	10	Pantry	1.3	2.56	5.35	13.696	147.92	10
3 TESTING LAB ZONE								

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	1	Testing Lab 01		6	6	36	387.504	13
	2	Testing Lab 02		6	6	36	387.504	13
	3	Testing Lab 03		6	6	36	387.504	13
	4	Testing Lab 04		6	6	36	387.504	13
	5	Services and storage		6	3	18	193.752	13
	6	Drone storage area 1		7	4	28	301.392	Full
	7	Drone storage area 2		7	4	28	301.392	Full
	8	Drone storage area 3		7	4	28	301.392	Full
	9	Drone storage area 4		7	4	28	301.392	Full
	10	Drone storage area 5		7	4	28	301.392	Full
	11	Common Hangar zone		15.7	10.4	163.28	1757.54592	Full
	12	Tinkering zone		7.8	7	54.6	587.7144	Full
	13	Circulation and Passages		N/A	N/A	64.7	696.4308	Full
4 DMT								
	1	Inner viewing chamber with workstation provision		4.2	4.2	17.64	190.512	8
	2	Viewing Gallery Area		N/A	N/A	18.28	197.424	Open to sky
5 BATTERY STORAGE								
	1	Battery storage 1		1.2	0.6	0.72	7.776	4
	2	Battery storage 2		1.2	0.6	0.72	7.776	4
	3	Battery storage 3		1.2	0.6	0.72	7.776	4
	4	Battery storage 4		1.2	0.6	0.72	7.776	4
	5	Battery storage 5		1.2	0.6	0.72	7.776	4

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	6	Battery storage 6		1.2	0.6	0.72	7.776	4
	7	Battery storage 7		1.2	0.6	0.72	7.776	4
	8	Battery storage 8		1.2	0.6	0.72	7.776	4
	9	Battery storage 9		1.2	0.6	0.72	7.776	4
	10	Battery storage 10		1.2	0.6	0.72	7.776	4
	11	Battery storage 11		1.2	0.6	0.72	7.776	4
	12	Battery storage 12		1.2	0.6	0.72	7.776	4
	13	Battery storage 13		1.2	0.6	0.72	7.776	4
	14	Battery storage 14		1.2	0.6	0.72	7.776	4
	15	Battery storage 15		1.2	0.6	0.72	7.776	4
	16	Battery storage 16		1.2	0.6	0.72	7.776	4
	17	Battery storage 17		1.2	0.6	0.72	7.776	4
	18	Battery storage 18		1.2	0.6	0.72	7.776	4
	18	Common Area		na	na	5	54	10
6 FUEL STORAGE								
	1	Fuel Storage 1		1.2	1.2	1.44	15.552	4
	2	Fuel Storage 2		1.2	1.2	1.44	15.552	4
	3	Fuel Storage 3		1.2	1.2	1.44	15.552	4
	4	Fuel Storage 4		1.2	1.2	1.44	15.552	4
	5	Fuel Storage 5		1.2	1.2	1.44	15.552	4
	6	Fuel Storage 6		1.2	1.2	1.44	15.552	4
	7	Fuel Storage 7		1.2	1.2	1.44	15.552	4
	8	Fuel Storage 8		1.2	1.2	1.44	15.552	4

ANNEXURE 2.1: AREA AND DIMENSIONS CHART

1 SITE AREAS: (REFER Annexure 1.1,1.2)								
	<u>S.no</u>	Spaces	Annexure No.	L(m)	B(m)	Area in Sq.m	Area in Sq.ft	Height (in Ft)
	9	Common area		na	na	5	54	10

ANNEXURE 2.9: LIST OF MAKES and FINISHES		
Sr. No.	Name of Items	Name of the Brand
ELECTRICAL		
1	Modular Switch, Socket and accessories	Legrand(Myrius), Schneider(Opale), Honeywell(Blenze Plus), Norisys(Square)
2	MS Conduit Pipes (I.S.I. Marked)	BEC, NIC, Steel Krafts, M.Kay
3	PVC Conduit Pipes (ISI Marked)	BEC, AKG, Polypack, Precision
4	PVC Wires (FRLS) Copper Conductor (I.S.I. Marked)	Havells, Polycab, RR Kabel, Finolex
5	Multicore PVC insulated copper flexible cables	Havells, Polycab, RR Kabel, Finolex
6	Coaxial Cables	Havell's, Polycab., RR Kabel, Finolex
7	Data and telephone cables	Legrand, Systimax, AMP, Molex
8	LT-PVC/ XLPE Underground cables with Aluminum/Copper Conductor (I.S.I. Marked) (I.S.I. Marked)	Havells, KEI, Skytone, Polycab
9	PVC pipe 6 kg/sq cm pressure with accessories	AAKG, Diplast, Kalinga, Polypack, Dauphin.
10	GI Pipe & M.S. Pipe (medium) ISI Marked	Jindal, Parkash, Ravindra, Tata.
11	MCBs & Enclosure, ELCB/RCCB.	Legrand, Siemens, Hager, Schneider Electric (Makes of enclosures shall be same as per MCBs)
12	MCCBs & Enclosures	L&T, Siemens, Schneider Electric, Legrand
13	(i) Ceiling Fans (Double ball Bearings)	Crompton, Orient, Usha, Havells
14	(ii) Exhaust Fans	
15	Cable Glands	Comet, Gripwell, Hex
16	Thimbles	Dowells, Jainsons, Raychem
17	HDPE Pipes	Supreme, Paramount, Apollo
18	L.T. Panel	Anubhav Power, Shivam Control, Shivalic, Milestone

19	Lighting Fixtures- Internal	Regent, Philips,Trilux,
20	Lighting Fixtures- External	K-Lite, Twinkle, Vak
21	External Lighting Poles	K-Lite, Twinkle, Vak
22	Optic Fibre Cable	Legrand, Panduit, Siemon
23	LIU	Legrand, Panduit, Siemon
24	Fibre PDMTh Cord	Legrand, Panduit, Siemon
25	PDMTh panels	Legrand, Panduit, Siemon
26	Data Cable Cat-6	Legrand, Panduit, Siemon
27	Cat-6 PDMTh Cords	Legrand, Panduit, Siemon
28	Information outlets	Legrand, Systimax, AMP, Molex
29	Network Racks	Legrand, Rittal, Deliyod
30	Fire Detection Panel	Notifier, Edwards, Tyco
31	Fire Detection accessories	Notifier, Edwards, Tyco
32	PA controller	Honeywell, Bosch, Heinrich
33	Alarm Call station	Honeywell, Bosch, Heinrich
34	Power amplifier	Honeywell, Bosch, Heinrich
35	PA speakers	Honeywell, Bosch, Heinrich
36	CCTV Cameras	Honeywell, Impulse, Axis, Bosch, HIKVision
37	NVR	Honeywell, Impulse, Axis, Bosch, HIKVision
38	Network switches for CCTV	Cisco, Impulse, Juniper, Extreme, Nexus
39	Professional LED Monitor	Panasonic, LG, Sony, Samsung
40	Wiring Raceways	BEC, MEM, R M CON, Sai Metal
41	Floor Boxes	Legrand, MK, OBO
42	Cable Trays	BEC, MEM, R M CON, Sai Metal
43	MCCB, MCB, ELCB, RCBO	L & T / SCHNEIDER / SIEMENS / LEGRAND
44	CABLES & WIRES	POLYCAB / KEI / RR / FINOLEX
45	AUTOMATIC CHANGEOVER SWITCH (AT	ASCO

46	DISTRIBUTION BOARDS	L & T / SCHNEIDER / SIEMENS / LEGRAND
47	CABLE GLANDS & LUGS	DOWELLS / JAINSONS / COMET / POLYCAB
48	PVC CONDUITS	PRECISION PLASTICS / POLYCAB
49	CABLE TRAY & RACEWAYS	INDIANA / PROFAB / EQUIVALENT LOCAL
50	CAPACITORS	EPCOS / SHREEM / PRABODHAN / NEPTUNE
51	CAPACITOR DUTY CONTACTORS	EPCOS / L & T /SIEMENS
52	APFC PANEL (IF PROVIDED AS ONE UNI	NEPTUNE / L & T / SHEEM
53	LIGHTING FIXTURES	WIPRO / HAVELLS / SYSKA OR EQUIVALENT
54	EXHAUST FANS	CROMPTON / BAJAJ / HAVELLS
55	TELEPHONE CABLE	ITL / POLYCAB / FINOLEX
56	KRONE JUNCTION BOX	ITL
57	CAT-6 UTP CABLE	SYSTIMAX / R & M
58	FIRE ALARM SYSTEM	RAVELLS / HONEYWELL / GST
59	D.G. SET	KIRLOSKAR GREEN
60	CCTV SYSTEM	HONEYWELL / HIKVISION
61	SWITCHES	ANCHOR ROMA
62	PANEL	ZENITH / ARROW
63	RACEWAY.	JINDAL / PREFABRICATED / ELINS / PUSHPAK/ GANAPATHY FAB
64	LOAD / METRES	AE/ MECO
65	FRLS COPPER WIRES	ANCHOR/ FINOLEX/KEI
66	UPS, ISOLATION TRANSFORMER	SOCOMECC/APC/EMERSON/ MEGATECH / SUKAM/NUMERIC
67	END TERMINATION MATERIALS	DOWELLS / SMI / COMET
68	DIGITAL PANEL METERS --- DIGITAL ENERGY METERS	ELMEASURE / ELECTREX /CONSERV

69	MULTI DATA METER (MDM WITH RS-485 PORT)	ELMEASURE / ELECTREX /CONSERV
70	INSTRUMENT TRANSFORMERS	KAPPA / KALPA / SIEMENS
71	PROTECTION RELAYS	ABB / CSPC / SCHNEIDER
72	TERMINAL BLOCK	ELMEX/ CONNECTWELL
73	SPD	SCHNEIDER / SIEMENS / OBO BATTERMANN
74	CONTACTORS	ABB / TELEMECANIQUE / SCHNEIDER
75	M.S. CONDUIT	SUPREME /BHARATH /GB
76	PIR SENSOR	PHILIPS / WIPRO / SCHNEIDER
77	DAYLIGHT SENSOR	PHILIPS / WIPRO / SCHNEIDER
78	BALLAST	PHILIPS / WIPRO
79	INDUSTRIAL METAL CLAD PLUG & SOCKET	MDS LEGRAND /NEPTUNE/GEWISS
80	POLYCARBONATE INDUSTRIAL PLUG & SOCKET	CLIPSAL/MDSLEGRANS / NEPTUNE / GEWISS/MENEKES
81	BATTERIES	PANASONIC/C&D/ROCKET KOREA
HVAC		
1	AC UNIT	LG / CARRIER / BLUESTAR
2	COPPER PIPING	PARASMANI
3	CABLE	POLYCAB
4	DRAIN PIPE	PRINCE / KISSAN
5	GALVANISED IRON	JINDAL
6	AIR DIFFUSER / GRILL	SYSTEMAIR / COSMOS / CARRYAIR
7	NITRILE RUBBER INSULATION	KFLEX / ARMACELL / AEROFLEX
8	SEQUENTIAL CONTROLLER	AIRCON CONTROL / SMART
9	INLINE FAN	CARRYAIR
10	AIR CURTAIN	RUSSELL

FIRE & SECURITY		
1	FIRE ALARM SYSTEM	NOTIFIER/ EDWARDS / SIMPLEX / HONEYWELL MORLEY
2	PUBLIC ADDRESS SYSTEM	AHUJA / BOSCH PRAESIDEO / HONEYWELL INTEVIO / ATEIS
3	SPRINKLER SYSTEM	TYCO/JINDAL
4	ACCESS CONTROL SYSTEM	ESSL / SPECTRA / KANTECH/HONEYWELL/HID
5	IP CCTV SYSTEM	VIVOTEK / HONEYWELL / HIKVISION
6	GAS SUPPRESSION SYSTEM	KIDDE/ANSUL/HONEYWELL UL LISTED
7	FIRE EXTINGUISHER	KANEX/MINIMAX/CEASEFIRE
8	RODENT REPELLENT SYSTEM	RSCAT
9	DIGITAL WATER LEAK DETECTION	SYNOPSIS/SONTAY/WATER DETEC
10	SIGNAGES	AUTOGLOW/PROLITE
11	HSSD	HONEYWELL/AIRSENSE / XTRALIS
12	CCTV	HIKVISION
13	FIRE EXTINGUISHER	SAFEX
14	RODENT REPELLENT SYSTEM	RSCAT / SYNOPSIS
15	DIGITAL WATER LEAK DETECTION	SYNOPSIS
16	NOVEC GAS SUPPRESSION	XTRALIS
INTERIOR		
1	PLYWOOD	GREEN, CENTURY.
2	VENEERS	JALARAM / KIT PLY / ANCHOR/ DURO/ DURIAN/ MAYUR
3	LAMINATE	GREEN / CENTURY / MERINO
4	HARDWARE	GEZE / HETTICH / DORMA
5	ADHESIVE	FEVICOL / VAMICOL / ARALDITE
6	ADHESIVE	ARALDITE

7	PAINT	ASIAN / ICI / NEROLAC
8	WOOD PRESERVATIVES	JAPAN BLACK
9	CABINET LOCKS	GEZE / HETTICH / DORMA
10	DOOR/STORAGE HANDLES	OZONE / ENOX / EBCO
11	PARTITION FRAMEWORK	JINDAL/ NALCO
12	MDF	ACTION/ ASIS / GREEN
13	ROCKWOOL	UP TWIGA/ OWENS CORNING OR EQUIVALENT
14	LACQUERED GLASS	SAINT GOBAIN / ASAHI
15	WRITABLE FILM	3M / GARWARE / LUMAR
16	FABRIC	RESPONSE / CLASSIC / SAROJ
17	MIRROR	SAINT GOBAIN / ASAHI
18	FIRE DOOR	SHAKTIMATE/ MATRIX / STRATEGIC
19	GRID CEILING	ARMSTRONG / AMF
20	AXIOM PERIMETER	ARMSTRONG / AMF/ ECOPHONE/ NITTOBO
21	BAFFLE CEILING	ARMSTRONG / AMF/ ECOPHONE/ NITTOBO
22	WATER-PROOFING	ROFF-HYSEAL / PRO-EXCEL / FOSROC CONBEXTRA SOLUTION /CISCO/ STP EQUIVALENT
23	SINK	NIRALI
24	PLUMBING FITTING	HINDWARE / JAQUAR /PARRYWARE
25	SANITARYWARE	HINDWARE / JAQUAR /PARRYWARE
26	SOAP DISPENSER	EURONICS/ JAGUAR / PARRYWARE
27	HAND DRYER	EURONICS/ JAGUAR / PARRYWARE
28	TISSUE DISPENSER	EURONICS/ JAGUAR / PARRYWARE
29	TOILET PAPER HOLDER	EURONICS/ JAGUAR / PARRYWARE
30	TWO-WAY ROBE HOOK	EURONICS/ JAGUAR / PARRYWARE
31	TOWEL ROD	EURONICS/ JAGUAR / PARRYWARE

32	URINAL DIVIDER HARDWARE	ENOX/ OZONE
33	TOILET CUBICLE	MERINO
34	ROLLER BLINDS	MARVEL / MAC / VISTA
35	FALSE FLOORING	UNITILE / UNITED INSULATION / PROJECT INTERIORS
36	CARPET	EURONICS WELSPUN
37	MELAMINE POLISH	PIDILITE, ASIAN
38	PEST CONTROL	PCI
39	WOOD	SALWOOD, TEAK WOOD.
40	GLASS	ASAHI/SAINT GOBAIN OR EQUIVALENT
41	GLAZED CERAMIC TILES	KAJARIA/NITCO/JOHNSON
42	VITRIFIED TILES	KAJARIA/NITCO/JOHNSON/EURO
43	GI PIPES	TATA, ZENITH
44	GYPSUM BOARDS	LAFARGE/SAINT GOBAIN
45	WOODEN FLOORING	EURO, PERGO, INNOVER
46	LOCKERS / COMPACTOR / SLOTTED ANGLE RACK	MOBISTOR, GODREJ, KOMPRESS, STEELEDGE
47	WALLS	SIPOREX / AEROCON OR EQUIVALENT
48	CEMENT	L & T / NARMADA / AMBUJA/ ULTRATECH
49	WHITE CEMENT	BIRLA / JK
50	KITCHEN EQUIPMENT	GAYATRI FABRICATION WORK / PRIME KITCHEN EQUIPMENT
51	GLASS PARTITION	OTIC / ALLOY / ICON /VEDIC
52	SKIRTING	BOTTOMLINE / ENSEMBLE / OTIC / VEDIC
53	SLIDING FOLDING PARTITION	MALROX / MODWAL
54	SIGNAGE	PRO-LITE / SIGNTEN
55	MODULAR	WIPRO / FEATHERLITE / SPACEWOOD / PSL

56	CHAIRS & SOFA	WIPRO / FEATHERLITE / SPACEWOOD / LILA DÉCOR / AMARDEEP
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