

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY
PASHAN, PUNE-411 008**

Tender No. CE/IITM/Project/CCCR Office//2012-13/05

e-TENDER NOTICE

Director, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune-411 008 (India) invites sealed separate tenders for following work (Part-I – Technical Bid, Part-II – Commercial Bid) in separate sealed covers from Contractors registered in the approved list of contractors of PWD/ MES/ CPWD/ Railways/P&T/Experienced industrial contractors and any other government departments in appropriate class for following work.

Name of work: - Interior work at CCCR Building at IITM Pune.

Tender documents can be down loaded from e-procurement web site <http://www.eprocure.gov.in> or from Institutes web site <http://www.tropmet.res.in> and also can be obtained from the Civil wing of the Institute. In case of downloading of tender documents from above websites the bidder has to submit the tender document fee of Rs.1,000=00 (Rs, One thousand only) in the form of DD drawn in favour of Director, IITM, Pune.

Date of issue of tender documents	14/05/2012
Pre - Bid Meeting	18/05/2012 at 1100 hrs
Last date of receipt of Tender at IITM, Pune:	05/06/2012 at 1230 hrs
Opening of Tenders (Technical Bids only) :	05/06/2012 at 1500 hrs

The Institute reserves the right to reject any or all tenders without assigning any reason there of. Further details please visit our Website: www.tropmet.res.in

Civil Engineer
For Director

Email: anupam@tropmet.res.in

[Technical-Bid]

Part-I

(Vol. -1)

FOR

**INTERIOR WORK AT
CENTRE FOR CLIMATE CHANGE RESEARCH BUILDING**

FOR

INDIAN INSTITUTE OF TROPICAL METEOROLOGY,

DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008

Name of Work	: Interior work at CCCR Building at IITM, Pune-8
Completion Period	: 90 days from date issue of LOI
Tender documents Fee	: Rs 1000/-(Non Refundable) on payment of Cash/D.D, in favour of Director, Indian Institute of Tropical Meteorology, Pune-8
E.M.D (Interest Free)	: Rs.2, 50,000=00(Rupee Two lakhs fifty thousand Only) in the form of Demand Draft or Bank Guaranty from Indian Nationalized Bank, in favour of Director, Indian Institutes of Tropical Meteorology, Payable at Pune. The EMD will be return to unsuccessful bidders after issuing the LOI to successful bidders.
Security Deposit	: 5% of Order value in the form of Demand Draft or Bank Guaranty from Indian Nationalized Bank. EMD will be adjusted towards security deposit.
Retention Money	: 5% amount of actual work done will be retained and released after defect liability period of 12 months from the date of Handing over the site.
Bid validity period	: 120 days from date of opening of technical bid,
Bid sale start date	: 14/05/2012
Pre Bid Meeting	: 18/05/2012 at 1100 hrs
Due Date of Bid Submission	: 05/06/2012 at 1230 hrs
Date of Technical Bid Opening	: 29/05/2012 at 1500 hrs
Commercial Bid	: After evaluation of Technical Bids, the date and time will be communicated to technically qualified/shortlisted Companies.

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**INTERIOR WORK FOR CCCR BUILDING,
AT INDIAN INSTITUTE OF TROPICAL METEOROLOGY (IITM) CAMPUS,
PASHAN, PUNE- 411008**

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(TECHNICAL/ CONDITIONS BID)**

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NOTICE INVITING TENDER

1. Sealed item rate tenders are hereby invited on behalf of INDIAN INSTITUTE OF TROPICAL METEOROLOGY, Dr. Homi Bhabha road, Pashan, Pune 411 008. for the proposed interior furnishing works to be carried out at the above location.
2. The work is to be completed within **90 Days** from the date of issue of the LOI.
3. The tender documents can be obtained from INDIAN INSTITUTE OF TROPICAL METEOROLOGY, Dr. Homi Bhabha road, Pashan, Pune 411 008.
 - 3.1 Part 1 (Technical / Conditions Bid)
 - 3.2 Part II (Commercial Bid)
 - 3.3 Drawings
4. The Technical & Commercial bid should be submitted separately in two sealed envelope duly superscribed on each envelop “ **Technical bid for Interior work at CCCR BUILDING** “ “ **Commercial bid for Interior work at CCCR BUILDING** “ Tender Notice Number and put in outer envelope duly superscribed “Tender for CCCR BUILDING”. The full name and postal address of the tenderer, shall be written on the bottom left hand corner of the envelope. The completed tender should be submitted to Administrative Officer. Indian Institute of Tropical Meteorology, Dr. Homi Bhabha road, Pashan, Pune 411 008 .
5. Acceptance of the tender will rest with the employer who reserves the right to accept or reject any tender/all tenders without assigning any reasons.
6. **All the rates mentioned in the tender are inclusive of material, labour, transport charges, wastage, overheads & profit etc, and shall remain firm till completion of work, no escalation in price will be payable for whatsoever reasons. Contractor shall mention VAT & Service Tax separately while quoting the rates**
7. **Incomplete tenders are liable to be rejected.**
8. **The last date for receipt of completed tenders is 05/06/2012 at 1230 hrs**
9. **Tender fee and EMD by Demand Draft or Bank Guarantee should be submitted along with the technical Bid.**
10. **Commercial Bid duly signed and stamped filled, rates should be submitted in the commercial bid envelope.**

FORM OF TENDER

INDIAN INSTITUTE OF TROPICAL METEOROLOGY
Dr. Homi Bhabha road, Pashan, Pune 411 008.

Dear Sir:

With reference to the tenders invited by you for the proposed Interior work CCCR Building at Indian Institute Of Tropical Meteorology, Dr. Homi Bhabha road, Pashan, Pune 411 008

I / We the undersigned hereby tender and undertake to the works under the contract at rates quoted by me / us in the schedule of quantities and on the site conditions with this tender.

I /We have carefully studied and understood the plans, drawings, terms and conditions, schedule of works and have acquainted myself/ ourselves with the site conditions.

4. I / We agree to complete the total work within **90days** from the date of issue of LOI.

I / We agree that the amount of 5 (five) percent of the total amount of work done deducted proportionately from the interim bills towards Security Deposit shall be with the Client as Retention Money till the Defects Liability period of twelve months is over after handing over of the work to the client and the said amount shall bear no interest. The Earnest Money Deposit with the tender document would be returned to the bidder after final selection of Contractor is decided. The EMD of successful bidder could be adjusted against the Security Deposit of 5% if agreed to by the bidder.

The criteria of selection would be based on quality of work of the Contractor assessed by Site visit, Profile, the Commercial quote and Interview.

Place :

Signature of Contractor(s)

Address :

Date :

CONDITIONS OF CONTRACT

Tenderers shall sign all the pages of tender document.. Tenders not so signed are liable to be rejected. The pre qualifying criteria of the contractor needs to be submitted in the office of Indian Institute Of Tropical Meteorology, Dr. Homi Bhabha road, Pashan, Pune 411 008 (please refer prequalifying notice for submission details)

1. Fluctuations in the price of any materials or equipment or labour etc., shall not be taken into account either for compensation for damage or for extras. **The validity of the tender shall be 120 days for acceptance.**
2. Watch and ward in respect of all plants and machinery at site for use in work shall be the contractor's sole responsibility.
3. The contractor shall have to make his own arrangements to house his labour and staff and for their services and at no cost Indian Institute of Tropical Meteorology, Pune premises shall be used for accommodating the workers.
4. All instructions regarding the execution of works shall be received from the Architects/Owners only. Any other instructions issued directly to the contractor by anyone else shall not be binding on the owner.
5. During execution of works the contractor must check his work with the drawings. The contractor shall be responsible for all the errors in this connection and will have to rectify all defects at his own cost, failing which the owner reserves all right to get the same rectify at the risk and cost of the contractor.
6. The contractor executing the work shall indemnify the owners and the Architects against theft, mishaps in construction and injury to workman, damage to person, property etc. He shall make good the damage at his own expense.
7. The Owners, shall have the power to omit or cancel, add or alter any item of work without assigning any reason whatsoever and no claim for compensation for damage will be entertained for such omissions, alterations, addition and cancellations other than taking in account the cost involved for such changes, to be plus or minus, and the cost shall be arrived at by the Architects / Owners taking into consideration the market rates, site conditions, etc.
8. **Time is the essence of the work. All the works shall have to be completed within the stipulated time from the date of work order (Appendix - A). If the work is not completed within the aforesaid period the contractor shall pay the owners liquidated damages of 1.0% per week subject to a maximum of 10% of value of work order value in case of delays beyond the accepted completion period for reasons solely attributed to him.**

9. The contractor shall maintain satisfactory progress of work as well as maintain the desired standard of workmanship. He shall submit weekly progress reports to the Architects & Owner in the format approved by the Owner / Architect. If in the option of the Architects / Owners the progress is unsatisfactory and / or the workmanship is unsatisfactory, the Architects shall advise the employer to take possession of the work in as and where condition with 7 days notice to that effect. The employer shall then complete the entire work and rectify all the defects at the contractor cost and consequences.
10. In case the Owner / Architects are not satisfied with the quality of materials used by the contractors, they reserve the right to reject such materials/work and direct the contractor to procure such supplies from agencies they deem fit.
11. It is agreed that if the works are delayed (1) by force majeure or (2) by reasons of any exceptionally inclement weather or (3) by reasons of loss or any damage by extensive fire not caused by an act or a default on the part of the contractor, by earthquake or civil commotion, strike or lockouts affecting any of the trade employed upon the works, then the owner shall make fair and reasonable extension of time for completion of works. Upon the happening of any such event, causing delay, the contractor shall immediately give notice thereof in writing to the owner and the assist the contractor to the almost extent possible to meet the situation. If no such notice as mentioned above is given within 7 days of happening of such event, no consideration for extra time on this account will be given. No Claim for damage or compensation will be entertained on this account and the decision of Owners will be final and binding on all parties.
12. The contractor shall submit the bills for payment strictly in the format given below along with detailed statement showing the actual works carried out under different heads of items.

BILL FORMAT:

Item No	Description of Item, At least 2 lines.	Unit	Tender	Executed	Rate	Amount
			Quantit y	Quantity		

NOTE: ALL QUANTITIES IN THE BILL SHOULD BE CUMULATIVE. .ALL MEASUREMENTS SHOULD BE IN THE ORDER OF TENDER SEQUENCE AND STRICTLY IN THE FORMAT MENTIONED FURTHER.

MEASUREMENT FORMAT

Item No.	Description of Item & Location against each measurement taken.	Nos.	Length	Breadth / Width	Height	Quantity
			.			

15. The contractor shall clear the site of works as per the instructions of the Owners/Architects. The site of works shall be cleared of all men, materials etc., belonging to the contractor. The site shall be delivered in clean and neat condition immediately after the job is completed. In case of failure by the contractor, the employer shall have right to get the site cleared at the risk and cost of the contractor.
16. The contractor shall not without the written consent of the Owners / Architects assign the agreement of subject any portion of works.
17. The bidder should produce **Banker's Solvency** Certificate or Revenue Solvency Certificate of the value of **Rs.35.00 Lakhs**. Solvency Certificate must have been obtained not earlier than 1st July 2011.
18. **The quoted rates shall be all inclusive and cover the cost of all materials, labour, freight, insurance, duties, royalties, erection, construction, testing, of materials, samples brought for approval, setting up mock up samples for approval, temporary arrangements for lighting /fans tools and tackles, plant and equipment's, supervision, overhead, profit and any other expenditure incurred for completion of work as per drawings and specification. Contractor shall mention VAT & Service Tax separately while quoting the rates**
19. Wherever required, the Owners / Architects shall instruct for supply of samples of items or erection of mock- up, as the case may be, and upon approval of the same, the items shall be fabricated and completed by the contractor (with or without modification as the Architects/owner shall instruct).
20. The final bill from the contractor shall not be entertained under any circumstances without full completion of all the items of works. Any work found defective or wrongly carried out, and instructed by the Architect to be rectified or replaced shall be rectified or replaced prior to submission of the final bill. It is to be expressly noted that no final bill will be held valid in the event of non - rectification of the defective or wrongly carried out items and the completion date shall not on this account be extended. Defects liability period will be effective from the day of satisfactory completion of all the items of work, as may be certified by the Architects.
21. In the event of work being executed on holidays and during of beyond the normal office working hours which might be required for the completion of the work within the stipulated time, utmost care to be taken not to disturb the normal working of the office, neighboring offices if such a situation exists.
22. While executing the work, considerable amount of shifting and reshifting of several furniture items are likely to be involved. It is also likely that some of the items might be required to be temporarily shifted elsewhere in the premises on any other floors. These shall be done by the contractor, and no payment against these works shall be separately paid for by the Owners.
22. The contractor shall acquaint himself with the site conditions, local traffic regulations, local authority regulation, availability of materials, labour tax structure, etc., and quote

rates accordingly. No extra charge/increase in rates shall be allowed on any other accounts.

23. The contractor shall have a competent supervisor on the site all the time. He will be responsible for coordinating the work with all the other specialized agencies appointed for the related work incl HVAC and Electrical work, Civil work etc.
24. The contractor and / his authorised representative will attend all the meeting whenever called for and the decisions taken in the meeting will be binding on the contractor.
25. The contractor shall extend all necessary help to the agencies of associated works like Civil work, A.C. works , fire detection works and works to be carried out by the landlords agencies, in such a manner that they can carry out their works smoothly and the whole finished work must appear absolutely integrated . Nothing extra shall be paid on this account whatsoever.
26. All wood cutting, major planning, loose furniture items, etc., shall be done by the contractors at their workshop and only assembling work shall be carried out at site.
27. Figured dimensions are in all cases to be followed and in no case should they be scaled. Large scale details take precedence over small scale drawings. In case of any ambiguity, conflict of interpretation, generally the provisions giving more rigorous interpretation shall prevail, and the Architects decisions in this regard shall be final and binding.
28. In case any municipal / local authorities and competent authorities approval is necessary for executing the work then it shall be the contractor's responsibility to secure necessary approval and all expenses incurred thereof shall be borne by him.
29. In case the local authorities such as Ward Office raise objections in matters of water / electricity consumption debris disposal etc., the contractors shall solve the matter at their end, without involving or putting financial liability on the Client/owner.
30. Water if available within the premises is made available at one suitable point at the work site. All additional piping connections from this point, water meters etc., shall be installed by the contractor at his own cost. Water charges for consumption by the contractors will be charged separately by the Owners in case available. In case adequate water supply is not available, contractor shall make his own arrangements for meeting his requirements for executing the work at his cost.
31. The contractor shall be given **single electrical connection on chargeable basis** at the work site in case available. In case or non-availability of adequate power supply, contractor shall make his own arrangements for meeting his power supply requirements at his cost.
32.
 - a) The contractor shall be bound to carry out any extra items of work as per site requirement. The rate for extra items shall be derived from the rate already quoted. Where the items are not specified in the BOQ the rate shall be worked out at cost of material + labour + 10% towards overheads, wastage and transportation & profit.
 - b) Wherever applicable the basic rate difference in materials (mentioned in the tender) shall be payable plus -minus without any profits, overheads etc., on said rate difference.

c) Variation and Non-tendered items, if any, up to value of Rs.50000/- shall be carried out under specific written instruction by the Architects and owner. However, such items of value in excess of Rs.50000/- shall be carried out under prior sanction by the Owners. Sanction for all extra items shall be sought by the contractor within seven days from the occurrence of such necessity.

33. The rates shall be entered in figure as well as in words.

34. The payments shall be made in the following manner :

35. The payments shall be made in the following manner :

- a) 1st running bill to be submitted after completion of 25% of total work.
- b) 2nd running bill to be submitted after completion of 50% of total work.
- c) 3rd running bill to be submitted after completion of 75% of total work.
- d) 4th running bill to be submitted after completion of 90% of total work
- e) Balance 5% bill amount shall be released after completion of defect liability period of one year from the date of handing over the site.(satisfactory completion of work duly certified by the Architectural Consultant/Owner)

The Contractor shall submit his running bills for payment concerning work executed or materials delivered on the site. Payment would be made after the work certified by the Architectural Consultant / Owner.

The Architect will not certify to any application for payment to any contractor if there are:

- A) Defective items of work still uncorrected.
- B) Any claims or liens filed against the contractor for failure to pay for materials, labour of sub -contract amounts due , or reasonable evidence that indicates probable filing of such claims.
- C) Damage to another contractor.
- D) A reasonable doubt that the contract cannot be completed.

35. When the works are complete in all respects, shall intimate in writing to the Architect and the Owners to enable the Owners to take the possession of the same. The works shall not be considered virtually complete until the Owners and the Architect have jointly inspected the works and certified in writing that this has been completed.

36. Unless otherwise instructed, the contractor shall at his cost insure the works and keep them insured comprehensively, against loss or damage by fire and / or earthquake and flood, until the virtual completion certificate is issued. The insurance must be placed with a company approved by the Owners in the joint names of the Owners and the contractor for such amounts. The contractor shall deposit the policy along with all amendments and the receipts for premium paid with the Owners within 10 days from the date of issue of work order unless otherwise instructed.

37. All quantities mentioned in the BOQ are approximate and contractor will not claim any damages for increase/decrease in profit on account of variation in the actual work executed.

38. All disputes or deference of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof this contract or the construction remaining operation or effect thereof or the rights or liabilities of the parties of arising out to or in relation thereto whether during or after determination, foreclosure or breach of the contract. (other then those in respect of which he decision of any person is by contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the appointing Authority who shall be appointed for the purpose by the Owners be referred for adjudication to a sole Arbitrator to be appointed as hereinafter provided.
39. Contractor shall submit shop drawings for ducting system & partitions. The drawing shows design intent of the ducting system. The contractor to suggest, specify
- 40. Important Note: No drilling or fixing screws, fasteners, bolts etc. are allowed on the portion of RCC slab where PEX pipe system is embedded. The contractor to take all necessary precautions to safeguard the integrity of PEX system during execution of interior work.**

Along with final bills the contractor shall submit as built drawings of all the work under his scope. He shall also submit the guaranty/warranty certificates of equipments and material supplied by him.

APPOINTING AUTHORITY

The Appointing Authority will be the Owners.

The name of the arbitrator will be selected from one of the following disciplines, in order of preference:

- A) Retried High Court/ Supreme Court Judges, who have experience in handing Arbitration cases.
 - B) Member of the Council of Arbitration.
 - C) Fellow of Indian Institute of Architects.
 - D) Eminent retired Chief Engineers from State/ Center / P.W.D./ Public sector undertakings.
- For the purpose of appointing the sole Arbitrator referred to above, the Appointing Authority will send within thirty days of receipt by him of the written aforesaid notice, to the Contractor a panel of three names of persons who shall be presently unconnected with the organisation for which the work is executed.

The contractor shall on receipt by him of the names as aforesaid, select any one of the persons named to be appointed as a sole Arbitrator and communicate his name to the Appointing Authority within thirty days of receipt by him of the names. The Appointing Authority shall there upon without any delay appointment the said person as the sole Arbitrator. If the Contractor fails to communicate such selection as provided above within the period specified, the Appointing Authority shall make the selection and appoint the selected person as the sole Arbitrate.

If the Appointing Authority fails to send to the Contractor the panel of three names as aforesaid within the period specified, the Contractor shall send to the Appointing Authority a

panel of three names of person who shall all be unconnected with either party. The Appointing Authority shall on receipt by him of the names aforesaid select any one of the persons named and appoint him as the sole Arbitrator within 30 days of receipt by him of the panel and inform the contractor accordingly, the contractor shall be entitled to Appoint one of the persons from the panel as the sole Arbitrator and communicate his name to the Appointing Authority.

If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reasons whatsoever another sole Arbitrator shall be appointed as aforesaid. The work under the Contract shall, however continue during the arbitration proceeding and no payment due or payable to the contractor shall be withheld on account of such proceedings. The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing. The Arbitrator may from time to time, with the consent of the parties, enlarge the time for making and Publishing the award.

The Arbitrator shall give a separate award in respect of each dispute or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.

The fees, if any, of the Arbitration shall, if required to be paid before the award is made and published, be paid half by each of the parties. The costs of the reference and of the award including the fees, if any, of the Arbitrator who may direct to and by whom and in what manner, such costs or any part thereof shall be paid and may fix or settle the amount of costs to be so paid.

The award of the Arbitrator shall be final and binding on both the parties. Subject to aforesaid the provisions of the Arbitration Act 1940 or any statutory modification or reenactment thereof and rules made thereunder, and for the time being in force, shall apply to the arbitration proceeding under this clause.

It is also a term of the contract that if contractor (s) do / does not make any demand for arbitration in respect of any claim (s) within 90 days of receiving intimation from the Owners / Architect that the bill after due verification is passed for payment of a lesser amount, or otherwise, the contractors right under this agreement to refer to arbitration shall be deemed to have been forfeited and the Owners / Architect shall be relieved and discharged of their liability under this agreement in respect of such claim (s). Further, it is agreed that for the Purpose of this clause, such notice is deemed to have been received by the contractor (s) within 2 days of posting of the letter by the Owners / Architect or when delivered by hand immediately after receipt thereof by the contractor(s), whichever is earlier. Further, a letter signed by the officials of the Owners / Architect that the letter was so posted to the contractor (s) shall be conclusive.

I / We hereby declare that I/ we have read and understood the above terms and conditions and those we shall abide by them if the work is awarded to us.

Date:

Signature of tenderer.

FORM OF AGREEMENT

THIS AGREEMENT made this _____ day of _____ 2012 between Indian Institute Of Tropical Meteorology, Dr. Homi Bhabha road, Pashan, Pune 411 008 (hereinafter called the owner) of the one part and _____ of or whose registered office situated at _____

WHERE the Owners desirous to do the Interior work at CCCR Building (hereinafter called 'the work ') at Indian Institute Of Tropical Meteorology, Dr. Homi Bhabha road, Pashan, Pune 411 008 and has caused Drawings and Schedule of Quantities and Rates showing and describing the work to be done to be prepared by or under direction of M/s. Madhav Joshi and Associates, Architects and Urban Planners, Flat No.8, Matru Smruty Apartment, Mayur Colony, Plot no. 92, Kothrud, Pune 411038, phone 020-25410557/58

AND WHEREAS the Contractor has supplied the Owner with a fully priced copy of the said Schedule of Quantities and Rates (which copy is hereinafter referred to as the Contractor Bills) AND WHEREAS the said Drawings (hereinafter referred to as the Contract Drawing) and the Contract bills have been signed by or on behalf of the parties hereto .

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. For the consideration hereinafter mentioned the Contractor will upon and subject to the Conditions annexed carry out and complete the Work shown upon the Contract Drawings and described by or referred to in the Contract Bills and in the said conditions.

2. The Owner will pay the Contractor the sum of Rupees _____

(hereinafter referred to as the Contract Sum or such other sum as shall become payable hereinafter at the times and in the manner specified in the said Conditions.)

3. The term the Architect in the said conditions shall mean the M/s. Madhav Joshi and Associates or in the event of his death or ceasing to be the Architect for the purpose of this Contract, such person as the Owner shall nominate for that purpose, not being a person to whom the Contractor shall object for reasons considered to be sufficient by an arbitrator appointed in accordance with said Conditions. Provided always that no persons subsequently appointed to be the Architect under this Contract shall be entitled to disregard or overrule any certificate or opinion or decision or approval or instruction given or expressed by the Architect for the time being.

4. The said Conditions and appendix thereto shall be read and constructed as forming part of this Agreement, and parties hereto shall respectively abide by submit themselves to the Condition and perform the agreements on their parts respectively in such Conditions contained.

AS WITNESS the hands of the said Parities.

Signed by the said
In the presence of

OWNER.

Witness

CONTRACTOR

Name:

Address:

Signed by the said
in the presence of

Witness

Name:

Address:

LIST OF DRAWINGS

INTERIOR WORK

DRG.NO.	TITLES OF DRAWINGS
1	Furniture layout- Ground Floor
2	Furniture layout – First Floor
3	Furniture Layout – Second Floor
4	False ceiling layouts
5	Sections
6	Duct Details

APPENDIX- A

1. Date of Commencement : within 10 day from the date of LOI
2. Date of Completion : The total work is to be completed within 90 days from the date of issue LOI by the Client.
3. Liquidated Damages : If the work is not completed within the aforesaid period the contractor shall pay the owners liquidated damages of 1.0% per week subject to a maximum of 10% of value of work order in case of delays beyond the accepted completion period for reasons solely attributed to him
4. Defects liability period : 12 Months from the date of actual Handing over the site.
5. Earnest Money deposit : Rs. 2, 50,000 /- (Rupees Two Lakhs Fifty Thousands only) in the form of DD payable to Indian Institute of Tropical Meteorology.
6. Retention money : 5% of value of total work done.
7. Period for honoring certificates for payment : 21 days
8. Insurance etc. : Insurance cover as required by the Bank. (Contractor shall adhere to safe construction practice and guard against hazardous and unsafe materials, etc. and comply with rules of the local authorities.)
9. Income tax. : As per prevailing rate Income Tax shall be deducted from bills.

We agree to the terms incorporated in the above Appendix- A

Signature of Contractor(s)

Date :

GENERAL SPECIFICATION

1.0 GENERAL

These specifications are for work to be done, item to be supplied and materials to be used in the works as shown and defined on the drawings and herein to the satisfaction of the Owner/ Architect.

- 1.1 The workmanship is to be the best possible and of a high standard. The contractor shall take all steps immediately to make up deficiency if any noticed by the Owner / Architect. Use must be made of special tradesmen in all aspects of the work and allowance must be made in the rates for the same.
- 1.2 The materials to be provided by the contractor shall be in accordance with the samples already got approval from the Owner / Architect by the contractor and in conformity with specification and approved is list of manufacture and brand. The contractor shall produce all invoices, vouchers or receipts for any materials if called upon to do so by the Owner/ Architect.
- 1.3 Samples of all materials are to be submitted to the Owner/ Architects for their approval before the contractor orders or delivers the material to the site. Samples together with their packing are to be provided free of charge by the contractor and should any materials be rejected they will be removed from the site at the contractors expense. All samples will be retained by the Owners / Architects for comparison with materials which will be delivered at site. Also the contractor will be required to submit specimen finishes colours, fabric, etc., for the approval of the Owners / Architects before proceeding with the works.
- 1.4 The contractor shall be responsible for providing and maintain temporary coverage required for the protection of finished work. He is also to clean out all wood shavings; cut ends and other waste from all parts of the works before covering of infillings are constructed.
- 1.5 Contractor shall maintain uniform quality and consistency in workmanship throughout the execution of the work.
- 1.6 The Contractor shall be responsible for all injury to persons, animals or things and for all damage to the structural and or any part of property arising out of his operations or neglect of himself or of any of his approved sub-contractor's employees, whether out of carelessness, accident or whatever cause. This clause will include buildings, roads, cables, drains, and tanks. The Contractor shall indemnify the owner and hold him harmless in respect of all any expenses arising from any such injury or damage to person or property. The Contractor shall reinstate at his cost all damages of every sort mentioned in this clause, so as to deliver the whole of the work complete and perfect in every respect and make good or otherwise satisfy all claims for damages to property of third party. The Contractor shall indemnify the owner against all claims made against the owner by any member of public or other third party arising out of his work or in consequence thereof and shall at his own cost arrange to effect and maintain until the virtual completion of the work, an insurance policy with an approved nationalized insurance company in joint names of owner and himself against such risk and deposit such policy with the Client.

The contractor shall also indemnify the owner against all claims, which may be made upon the owner.

Whether under workmen's compensation act or any other against such risks. The Contractor shall be responsible for anything which may be excluded from insurance policy and also for all other negligent or defective carrying out of this contract.

The owner shall be at liberty and is hereby empowered to deduct the amount of any damages, compensation costs, charges and expenses arising from any such claims from any sum due to Contractor.

2.0 Teakwood

2.1 Teakwood to be used shall be property seasoned, of natural growth and shall be free from worm holes, loose or dead knots or other defects, sawn square and shall not suffer warping, splitting or other defect.

2.2 The moisture content shall not exceed 12%

2.3 All internal framework shall be treated with approved preservative.

2.4 All Teakwood brought to site shall be clean, it shall not have any preservative or other coating / covering.

2.5 All rejected decayed, bad quality Teakwood shall be immediately removed from site.

2.6 All the dimensions mentioned for Teakwood Members are finished size + 2mm.

3.0 PLYWOOD

All plywood shall be phenol formaldehyde resin bonded with ISI mark IS: 303 /1975 unless specified otherwise.

4.0 HARDWARE AND METALS

4.1 All the screws/ bolts with nuts to be used shall have oxidized finish (unless required otherwise) of approval shape, size and quality.

4.2 Fittings shall be of brass oxidized unless specified otherwise.

4.3 Samples of all hardware are required to be got approved in advance.

4.4 The agency should cover -up and protect the brass surfaces by thick grease or other suitable material as necessary a subsequently clean it away at time of handing over.

4.5 All hardware shall be fitted with good workmanship without the surrounding edges being damaged

4.6 All chair stands shall be 5 prong aluminium revolving tilting as approved by Owners/ Architects, with a diameter of 25 1/2 inches, and finished with powder coating of high quality. In case M.S. stands are approved, the same shall be embossed m.s. with a seven - tank anti - rust treatment procedure before powder coating.

4.7 All castors shall be of approved make, quality and type. They shall be glass -reinforced-nylon castors, with twin wheels having independent movement, and with a load carrying capacity of 100 k.g per castors.

5.0 LAMINATE

5.1 All laminate, unless otherwise mentioned shall be 1.0 mm thk. Matt/Suede finished laminate of approved make.

5.2 All contractors shall get the sample showing the surface texture, pattern and colour approved, by Owners/Architect.

5.3 All edges, beading, etc. Shall also be finished in laminate unless specified otherwise.

6.0 FABRICATION IN METAL

All brazing and welds are to be executed in a clean and smooth manner, rubbed down and finished in flat and tidiest way, particularly where exposed.

7.0 GLAZIER

7.1 All glass is to be of Modiguard/ Asahi/ Saint Gobain or equivalent, to be of the quantities specified and free from bubbles, air holes, waviness and other defect.

7.2 In cutting glass, proper allowance shall be made for expansion.

7.3 Glass for mirror shall be as per approved sample and quality for glass.

7.4 On completion, all glass surfaces shall be cleaned inside and out, and all cracked , scratched glass /mirror shall be replaced.

7.5 Sun control film shall be non -reflective type, of approved make and shade. The fixing shall be without any defects such as air bubble/creases / adhesive mark, etc.

8.0 PAINT AND POLISHES

8.1 All material required for the works shall be specified and approved manufacture, delivered to the site in the manufacturer's containers with the seals, etc. Unbroken and after use empty containers shall be stored till finally cleared by the Owner.

8.2 All iron or steel/metal surfaces shall be thoroughly scraped and rubbed down with wire brushes and shall be entirely free from rust, mill scale, etc., before applying the primary coat.

8.3 Melamine polish finishes shall be properly finished, without any flow marks, spots, roughness, etc.

8.4 Painting work shall be of high standard, without any hurt marks on the finished surface and no spots adjacent furniture, glass, etc.

9.0 CIVIL WORKS

9.1 The contractor shall use cement of approved make only.

9.2 Only first quality ceramic tiles of approved make shall be used. All the tile joints shall be filled up properly using cement slurry mixed with matching pigments.

9.3 Only best quality granite and marble of the basic rate specified and of approved shade shall be used (Basic rates wherever mentioned are ex-godown and excluding taxes). The granite/ marble shall be from the same lot and without colour/shade variations or any other defect.

9.4 All edge chamfers /cutting of granite shall be mirror polished and no extra shall be paid for the same

Signature of Contractor (s)

MODE OF MEASUREMENTS

1. DOOR, WINDOWS AND GRILL.

Clear area over one face inclusive of frame shall be measured. Hold fasts and portion embedded in masonry of flooring shall not be measured.

2. PARTITIONS IN WOOD GLASS.

The partitions height shall be measured up to bottom of false ceiling and framing members/ply going above shall not be measured.

3. DECORATIVE PANELING OVER WALL OR OVER PARTITIONS

The area of the cladding shall be measured in square meter, or square feet.

4. CARPET

The actual area covered by the carpet shall be measured .No extra shall be allowed for wastage.

5. PAVING AND TILE WORK

The work mentioned in this section shall be measured in sq.ft. and shall be priced per unit of sq.ft. in all paving work. The slabs shall be touching the walls and go well under the plaster, but the measurements shall be the clear measurements of the rooms or area finished. No. Allowance shall be made for portions going under the plaster.

6. ALUMINIUM SLIDING WINDOWS.

The measurement of aluminum sliding windows shall be taken only after the frame along with shutter is fixed in its final finished positioning line level and plumb. Width and height shall be measured net between the out to out of the aluminum windows frame.

7. FALSE CEILING

For false ceiling work, the measurement shall be for the actual area covered. No deductions shall be made for the cutout, for lighting, speakers, column up to 5.00 sq.ft.

8. For conversion of inches to feet, the resultant figure shall be taken up to two digits after decimal point. Third digit shall not be taken into account.

Signature of Contractor (s)

**LIST OF APPROVED NOMINATED MANUFACTURERS/
SUB CONTRACTORS/ BRANDS**

- Note: 1) All materials shall be of the 1st quality. **(Among the approved brand, selecting brand shall be done as per Owner / Architects choice)**
- 2) Wherever contractor proposes to use equivalent makes (i.e. other than specified), the same shall be done after prior approval of the owner / Architect. Any additional expenditure and time due to this shall be solely on contractor's account and no claims whatsoever shall be entertained, in this regard.
- 3) Read "or equivalent approved 'at the end of the list of approved manufacturer / sub- contractor / brand for every material

Sr.No.	MATERIAL	APPROVED MANUFACTURER/SUB-CONTRACTOR /BRAND
1)	Gypsum Board	: India Gypsum Ltd.
2)	Commercial plywood / B.B	: National, Greenply, Woodcraft (Birla) Merino, Century or equivalent
3)	Marine plywood	: Archidply, Aero, Woodcraft (Birla), National, Tuffply, greenply, century or equivalent
4)	Veneer	: Green Decowood, Century, or equivalent
5)	Fabric protection coating for upholstery	: Fabgard of Dove Corporation, Scotchgard of Birla3m Ltd or equivalent.
6)	Paints	: Asian, Nerolac, ICI, Jotun
7)	Laminates	: Formica, National, Greenlam, Royal Touche, Merinolam or equivalent
8)	Screws (Oxidised)	: GKW,R.K, Laxmi
9)	Adhesive	: Fevicol sh, Araldite of Hindustan Ciba-geigy Ltd, V
10)	Locks	: Efficient Gadgets, Godrej, Europa, or equivalent
11)	Preservatives	: Termisil, woodcare
12)	Foams in chairs/ sofas	: MM FOAMS
13)	Al. door & windows section	: Jindal , Bharukka
14)	Drawer sliders	: Hettich, Ebco, Hafele or equivalent
15)	Patch Fittings	: Geze, Hettich, Ozone, Enox
16)	Aluminum Profile handles	: Hettich, hafele or equivalent
17)	Hardware	: Hettich, Hafele, Ozone or equivalent
18)	Floor spring, Door Closers	: Geze, Hettich,
19)	Glass & Mirrors	: Modi, Asahi, Saint Gobain

20)	Film on glass	: 3M
21)	Autoclosing hinges	Mepla, hettich, Hafele, or equivalent
22)	Ceramic tiles	: Kajaria Nitco,Johnson, RAK
23)	Vitrified ceramic tiles	: Johnson, RAK, Bell, Nitco, Kajaria
24)	Venetian/ Roller Blinds	Hunter Douglas, Vista, Mac
25)	Mineral fiber modular tiles	: Armstrong, India Gypsum

All brands to be specified and approved by the Architect and owner at the time of execution. Contractor to confirm before placing the order with the supplier.

Signature of Contractor (s)

IMPORTANT NOTE: (To be read & signed by the contractor)

The contractor will not be declared qualified unless he produces the required documents and information as listed below.

- 1) If the Contractor is Government Registered contractor in required appropriate class I, and if certified true copy of valid registration as per clause under appropriate class is not enclosed.
- 2) If the Contractor is Un-registered Private Contractor and if the annual turnover of the contractor is less than as stipulated under clause 5.
- 3) Certified true copy of VAT & Service tax valid registration as per clause 6 (a) and (b) is not enclosed.
- 4) Insufficient staff and does not produced the information in form 'B'.
- 5) If the list of similar nature of work in form 'C' is not furnished. (The list of one or two works which satisfies the norms of similar nature of work shall only be given for which he should produce the experience certificates in form E.)
- 6) Work done certificate for similar nature of work is not submitted as per form 'E'. (Only one or two certificates for the works which he claimed to be best and satisfying the required norms shall only be submitted.)
- 7) If the list of works tendered for and in hand as per form 'D' showing cost of balance works is not furnished.
- 8) If the actions as stipulated under clause 3 (C) of tender are taken and the work is rescind due to poor performance of contractor.
- 9) If the compensation is recovered for slow progress or bad quality of work, the contractor shall not be prequalified.

Contractor

The Director,

IITM

- 10) If the financial statement in form 'F' required as per clause 13, duly signed by the Chartered Accountant is not furnished.
- 11) If the Bid Capacity is found less than cost put to tender.
- 12) The financial indices for any one of the three years are not meeting (Sr. No. 14, 15 to 18 of the form)
- 13) If the information as stated above is found incorrect and misleading.
- 14) The information submitted is not readable and certificates are not attested by the Gazetted Officer.
- 15) The form is submitted incomplete.
- 16) Information is not furnished on form supplied by IITM and duplicate PQ form is used by contractors.

Contractor

**The Director,
IITM**

Summery of Forms
(To be filled in by the contracting firm)

- 1) i) Name of the Contractor : _____
 ii) Postal Address : _____

 iii) Telephone No. : _____
 iv) Fax No. : _____
 v) Mobile No. : _____
 vi) Email Address : _____
- 2) Please mention status
 i) Proprietary firm : Yes / No*
 ii) Partnership firm : Yes / No*
 iii) Pvt. Ltd. Co. : Yes / No*
 iv) Public Ltd. Co. : Yes / No*
 v) Co. Op. Society) : Yes / No*
 (* - Strike out whichever is not applicable)
- 3) a) Registration Class of Contractor :
 b) Validity of Registration :
 c) Authority issuing the registration Certificate (Copy of registration Certificate to be enclosed as Annexure I)
- 4) i) Mention the names :1)-----
 of Partners or Directors 2)-----
- 5) Annual turnover of the : 2009-2010 Rs.
 firm for last 3 years as
 Certified by the Chartered Accountant vide Form F. 2010-2011 Rs.
 Minimum required turnover per year 2011-2012 Rs.
 Shall be more than **Rs. 1.00 Crore (Rs. One Crore)**
 for any one of the year.

Contractor

**The Director,
IITM**

- 6) a) Whether the contractor is having valid VAT & Service Tax Registrations : Yes/No
- b) If so whether the certified copy of Such registration is enclosed (As Annexure II) : Yes/No
- 7) a) Whether the contractor is having plant, machinery and equipments as per requirement of project : Yes/No
- b) If yes, whether information in form "A" with documentary evidence is furnished. : Yes/No
- 8) Whether the information in respect of trained and qualified staff is furnished in form B with documentary evidence. : Yes/No
- 9) a) Whether the contractor has executed a single work of similar nature having cost of work more than **Rs. 100 lakhs (Rs. One Hundred lakhs)**. : Yes/No
- b) If Yes, whether the information of such work in form "C" is furnished. : Yes/No
- c) Whether the certificates from concerned authorities in 'E' form are enclosed (Work value should be more than the amount as mentioned under Sr. No. 9) : Yes/No
- 10) Whether the list of works in hand is enclosed in form "D" : Yes/No
- 11) Whether the amount of balance Works vide col. No.5 of Form "D" is mentioned. : Yes/No
- Quote the amount of balance work. : Rs. _____
- 12) State.....**
- a) In how many cases the notice under penalty / Liquidated damages clauses of the tender was issued to the applicant during last 3 years. : Nos/Nil
- b) In how many cases the work was rescind during last three years. : Nos/Nil

- c) If the work is rescind, the reasons for the same shall be mentioned with documentary proof. : _____

- d) In how many cases compensation was recovered for slow progress : _____
- 13) Whether financial information in form "F" is furnished duly signed by Chartered Accountant : Yes/No
- 14) Quote the bid capacity calculated as Per formula prescribed for the Purpose. (Shall not be less than the cost put to tender) : Rs. _____ lakhs
- 15) Quote the Net worth to long term Liabilities (shall not be less than 20%) : _____
- 16) Quote the Net profit to capital investment (should not be less than 5%) : _____
- 17) Whether the list of machinery owned by the tenderer which will be used for the work is enclosed in form "A": Yes/No
- 18) Whether the list of technical personnel of the tender likely to be deployed for each project is enclosed in form "B": Yes/No
- 19) Whether the details of works of similar or allied type and magnitude carried out by tendered is enclosed in form "C": Yes/No
- 20) Whether the details of other works tendered for and in hand on the date of submission of this application is enclosed in Form "D": Yes/No
- 21) Whether the details of certificate in respect of completion of work by tenderer enclosed in form "E": Yes/No
- 22) Whether the details of financial statement enclosed in form "F": Yes/No

The information given above and in the enclosed forms, annexure is true to the best of my knowledge and belief and I am fully responsible for its correctness.

Signature of Contractor

Date: _____

**The Director,
IITM**

[Technical-Bid]

Vol. -II

FOR

**INTERIOR WORK AT
CENTRE FOR CLIMATE CHANGE RESEARCH BUILDING**

FOR

INDIAN INSTITUTE OF TROPICAL METEOROLOGY,

DR. HOMI BHABHA ROAD, PASHAN, PUNE 411 008

FORM B

Sheet No.

LIST OF TECHNICAL PERSONNEL OF THE TENDERER LIKELY TO BE APPOINTED ON THIS WORK

NAME OF WORK :

Sr. No.	Name of Persons	Designation / holding the post in the firm.	Status in the firm	Academic Qualification & experience	Remarks & any other points.
1.	2.	3.	4.	5.	6.

NOTE :-

- 1) Continuation sheet shall be used if required.
- 2) The contractor should produce either a copy of form No. 24 of annual return of I. T. Authority for schedule of employees attached to the latest annual report or such other proof like extract of employment tax register, to the satisfaction of tender inviting authority.

Contractor

The Director, IITM

FORM 'C'

Sheet No.

DETAILS OF WORKS OF SIMILAR OR ALLIED TYPE AND MAGNITUDE CARRIED OUT BY TENDERER

NAME OF TENDERER. :

Sr.No.	Name of work	Name of Organisation and place of work	Tender cost	Stipulated date of completion	Actual Date of completion	Principal features in brief.
1.	2.	3.	4.	5.	6.	7.
		TOTAL				

NOTE :-

- 1) The contractor should have completed at least a single work of similar nature as mentioned under Sr. No. 9
(Only one or two works which contractor claimed to be the best and fulfil the norms and willing to produce the experience Certificate in form 'E' shall only be mentioned.)

Contractor

The Director, IITM

FORM 'D'

Sheet No.

DETAILS OF OTHER WORKS TENDERED FOR AND IN HAND ON THE DATE OF SUBMISSION OF THIS APPLICATION

NAME OF TENDERER. :

Sr. No	Name of work	Name of organization and place of work	Work in hand			Works tendered For			REMARKS
			Tendered cost	Cost of remaining work	Anticipated date of completion	Estimated cost.	Date when decision is Expected.	Stipulated period for completion.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
		TOTAL			TOTAL				

NOTE :- The continuation sheet may be used if required.

Contractor

The Director, IITM

FORM – 'E'

**CERTIFICATE IN RESPECT OF COMPLETION OF
WORK BY CONTRACTOR.**

1. Name of contractor. : _____
2. Name of work. : _____
3. Estimated cost put to tender. : Rs. _____

4. Period stipulated in tender for completion of work. : _____
5. Date of work order. : _____
6. Actual Date of completion. : _____
7. If time over-run, the reasons for the same. : _____
8. Final cost of work completed. : _____
 - i) Has he started the work promptly after issue of work order? YES / No
 - ii) Has he maintained the progress of work as per agreement? YES / No
 - iii) Quality of work : Excellent / Good / Satisfactory.
 - iv) Compensation / Penalty levied if any, with reasons. _____

9. Any other information about the overall performance of the contractor, the authority may like to mention. : _____

Certified that the information given above is based on the facts and figures recorded in this office through various documents and is true to the best of my knowledge and belief.

Signature and seal of Officer issuing the Certificate.

Outward No. _____

Dated : _____

NOTE :- 1) For works costing Rs. 1.00 Crore and above certificate issued by the S. E. or duly countersigned by the SE/CE shall be accepted.

Contractor

**The Director,
IITM**

FORM – 'F'

FINANCIAL STATEMENT

1. Name of Contractor : _____
(In case of Joint Venture /
Consortium, the name of the
Consortium firm). _____
2. Summary of Assets & Liabilities :
on the basis of the audited financial
statement of the last three financial
years. (Attach copies of the audited
financial statements of the last three
financial years)

		Year 2009-2010 (Rs. In Lakhs)	Year 2010-2011 (Rs. In Lakhs)	Year 2011-2012 (Rs. In Lakhs)
A)	Authorized capital			
B)	Issued capital			
C)	Paid up Capital /Partners / Proprietor Capital.			
D)	Reserves & Surplus.			
E)	Long term liabilities.			
F)	Current liabilities & Provisions.			
G)	TOTAL (C + D + E + F)			
H)	Net Tangible Fixed Assets.			
I)	Intangible Assets.			
J)	Long term investment			
K)	Current Assets, loans & Advances.			
L)	TOTAL (H + I + J + K)			
M)	Quick Assets i.e cash & equivalent, short term investment and current receivables.			
N)	Net profit after interest and depreciation.			

Contractor

Chartered Accountant
along with seal

**The Director,
IITM**

Detail Calculations for all the Ratios should be submitted on separate Annexure.			
5.	Applicants financial arrangements (Mention amount in Rupees)	:	Rs.
a)	Own Resource	:	Rs.
b)	Bank Credit.	:	Rs.
c)	Others (Specify)	:	Rs.
6.	Certificate of financial soundness from bankers of applicants together with their full address.	:	
7.	Credit Facilities :	:	
a)	Name / Address of Nationalized Bank providing credit line.	:	
b)	Total Amount of credit line (Attach certificate from the bank)	:	
8.	Approximate value of works in hand.	:	
9.	Bid capacity i.e. $(Ax N x2) - B$ where - (shall not be less than the cost put to tender)	:	
A	Maximum of the updated values of Civil & Plumbing works executed in one of the Preceding 3 years. The updating of the Value of work should be done at 10% per annum (compounded) by multiplying the Values with applicable factor i.e. 1.10, 1.21, Or 1.331 as the case may be.		
B	Value of existing commitment and works (on going or to be completed in the period stipulated for completion of the work in the present tender) i.e. from _____ to _____		
N	Number of years prescribed for completion of the work for which tenders are invited. = ____ Year.		

Contractor

**The Director,
IITM**

BLANK BOQ: ONLY FOR REFERENCE

Note:

(1) Bidders shall comply the BOQ and signed & stamped on each page. This will be part of technical bid.

(2) Bidders shall submit all tender drawings duly signed and stamped along with Technical Bid.

	BILL OF QUANTITIES				
	Interior Work at Centre for Climate Change Research Building				
	Indian Institute of tropical Meterology				
	Pune				
Sr.	Item	Unit	Quantity	Rate(Rs)	Amount(Rs)
Note	The contractor is to note and allow the following preambles in his scope of work.				
a	Rates quoted must have full compliance with the following including the cost of grey cement, and white cement.				
b	Basic rate shall include all taxes, delivery and handling charges (delivered at site).				
c.	Receiving all materials supplied by your vendors, unloading, storing at location specified. No additional payment will be paid for any increase lead from this location conveying to work site & fixing in position.				
d.	All finished flooring shall be covered with plaster of Paris of 6mm thick over a plastic film without any extra cost till handing over to the Owner.				
e.	Daily housekeeping of work areas which includes segregation of debris like cement based, plastic, glass, wood and collecting in containers provided by you, at an acceptable location inside the site premises.				
f.	Granite slabs should be free of all defects and all grains / patterns shall be properly matched from the same lot. Any colour / lot variation shall be rejected.				

g.	The minimum quality benchmark will be decided by the Architect based on mock up samples before commencing the work.				
h.	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, taxes, transport, labour, overheads and profit, etc				
i.	The basic rate of granite/marble includes supply, taxes and delivery to site of approximately 8' x 4' random slabs (or larger) delivered and unloaded to the point of cutting the same. All granite material shall be "gang saw water cut".				
j.	No wastages shall be paid for seperately. The same shall be factored in the quoted rate.				
k.	If there is a reduction in the basic rate the cost for the same shall be adjusted pro rata in the quoted rates. No increase in basic rates shall be allowed without written approval from the Architect.				
l.	Base sub-grade/sub-floor to be prepared by cleaning all dust/loose particles, caked mortar droppings, etc by scrubbing with steel wire brushes. Surface to be roughened if so required and surface cleaned with water and kept wet for minimum 12 hours.				
m	Bedding layer of mortar to be provided as directed in the case of 19mm+ slabs to correct level, step as instructed.				
n	Finished work to be inclusive of cutting and polishing where specified/applicable				
o	Contractor to be responsible for hiring/operating of all machines/equipment.				
p	Flooring to be cleaned, waxed or acid washed where applicable and as directed.				
q	Pointing to be done using matching coloured grout as specified/directed				
r	All marble flooring/slabs to be polished using tin oxide only.				

s	Slurry for marble flooring to be of white cement only.				
t	In the instance of granite/marble floors, the contractor has to obtain prior approval on dry laying. Wet laying to be carried out only on approval. Not extra cost shall be paid for dry laying.				
	<u>Section - I</u>				
	<u>False ceiling & ducting work</u>				
1	False Ceiling				
1.1	Gypsum False Ceiling				
	Plain gypsum ceiling : Providing and fixing suspended false ceiling consisting of 12.5mm thick Gypsum plaster board suspended on GI framework. GI framework to consist of GI perimeter channels 0.55mm thick 20mm x 30mm along perimeter of false ceiling of ceiling, screw fixed to wall/partition with nylon sleeves and screws @ 600mm c/c. Suspending GI intermediate channels of size 0.9mm thick 45mm x 15mm from the soffit at max dist 1220mm c/c with ceiling angle 0.55mm thick 25mm x 10mm fixed to soffit using proprietary supplied GI cleats and steel expansion fasteners.				
	Ceiling section 0.55mm thick web size 51.5mm and flanges 26mm each and 10.5mm lips are fixed to perpendicular to intermediate channel @ 457mm c/c using connecting clips.				
	12.5mm tapered edge plasterboard (IS 2095-1982) is screw fixed to ceiling section with 25mm drywall screws @ 230mm c/c. Boards to be finished with proprietary supplied jointing tape and jointing compound and sand papered to achieve a smooth and seamless finish. and 2 coats of primer suitable for plasterboard applied ready to receive finish.				

	Rate quoted to include vertical drops of 150mm and all cut-outs required for light fixtures, smoke detectors, ac grills/diffusers and other services cut-outs & 10mm wide groove at the junction of vertical surfaces complete as directed by Architect.				
	Rate quoted to include cost of providing support framework formed of perimeter channels for fixing light fixtures, AC grills/diffusers etc. Also to provide concealed perimeter channel support as required to support modular grid ceiling sections at junction between gypboard false ceiling and modular grid tile ceiling.				
		sft.	7950		
2	Ducting system				
	Providing and fixing in place duct made with T.W. framing and finished with 12mm thick calcium silicate board (Hilux or equivalent) as per the size and details shown in the drawing. The main supporting frame to be made in 3"x2" t.w. sections with diagonal bracing and lateral tie members are to be in 2"x2" t.w. sections. The entire framework to be finished with 3 coats of zinc primer/black japan. The main frames are @ approx 4'-0" apart. The frame is fixed with the screws only on the vertical face of the beam and shall be glued with Araldite to the r.c.c. ceiling. No screws to be fixed to the r.c.c. ceiling. The framework shall be covered with 12mm thick calcium silicate board on 3 sides as shown in the drawing in proper line & level. The joints shall be properly filled in level with the surface ready to apply the paint. The work shall also include all cut-outs required for light fixtures, smoke detectors, ventilation nozzles of approx dia 300mm with necessary support framework if required and other services cut-outs & 6mm wide groove at the junction of vertical surfaces complete as directed by Architect. Mode of measurement : only plan area of the duct. No vertical and or internal surfaces to be added.				
		sft.	3050		
3	Trap doors				
	Specification				

	Providing and fixing trap doors for access to the areas above false ceiling. The trap door shall have an external frame made of 2"x2" Teakwood scantling on which the shutter is hinged. Shutter shall be made of 2" x 1 1/2" Teakwood scantling with suitable cross members and fixed with 6 mm. Marine ply on both sides with fiber glass wool 50 mm thk. sandwiched.or 12mm thick calsium silicate board finished with approved colour luster paint. Both sides of the shutter shall be laminated in approved quality make and colour. Concealed heavy duty hinges shall be used to mount the shutters and locking shall be provided with panel locks. The shutter shall be moulded in level with the false ceiling forming a groove all around. Sufficient number of hinges and locks shall be provided to avoid sagging of the shutter. Key also shall be supplied. No extra rate shall be provided for suspenders or frame works alround for linking the trap door to gypboard false ceiling.	sft	100		
	Total Amount Rs.....				
	<u>Section - II</u>				
	-				
	<u>Carpentry & joinery work</u>				
	-				
	IMP Note : All the furniture to be fixed with screws only on the vertical faces of the beam. The furniture members are to be fixed to the RCC slab only with the adhesive (araldite or equivalent). No screwing shall be done to the RCC slab.				
a.	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, all applicable taxes/ charges, transport, labour, overheads and profit, etc				
b.	All internal woodwork shall be treated with anti termite and fire retardant paint				
c	All exposed vertical surfaces shall be finished with 4.0mm thick veneer/6-12mm thk t.w.lipping of approved make shade unless otherwise specified.				

d	All exposed veneer shall be group matched natural cut plain veneer of approved make and shade. Indicative basic rate of veneer to be considered : Rs 75 per sft				
e	All exposed veneered, wood, veneer surfaces shall be finished with spry applied matt melamine polish of approved shade				
f	All exposed edges of plywood, blockboard etc shall be finished with 6mm thick lipping beading of Teak wood/specified wood				
g	All plywood, blockboard for office areas shall be alternate core hardwood, water resistant, termite/borer proof first quality commercial grade. Basic rate of 18mm thick com.ply Rs. 65/- per sft.				
h	All plywood, blockboard for wet areas (toilets/pantry) shall be termite/borer proof and first quality waterproof marine grade.				
i	Timber(BTC) used shall be kiln seasoned and should be free from shrinkage, warpage even after fabrication of furniture Indicative basic rate : Rs.4000 per cft				
j	Provision to be made for additional supports and reinforcement that may be required for stability and evenness wherever required in partitions,tables,storages,doors etc.				
k	Contractor to make provisions of all necessary scaffoldings to facilitate high level installations.				
l	Contractor to form openings on partition for services and to seal gaps using silicon sealant.				
m	Where the use of spring loaded auto closing hinges is specified, the same shall be installed strictly as per manufacturers guidelines and relevant tools required for the same.				

n	All items to have sample approved by the architect prior to commencement of mass production				
o	All the hardware including hinges, handles, knobs, sliders, stoppers, profile handles,locks,latches,tower bolts, patch fittings, floor springs, etc. are to be approved by the architect before installtion/fixing.				
p	wherever required the cutouts for electrical fixtures, switch boards, data points, and for any other services are to be made in the furniture,tables, partitions etc. with additional support if required as per the details and architects instructions and should not be charged seperately.				
q	Actual dimensions on site may vary. The work shall be carried out by as per the site measurements.				
r	All the exposed edges of the tables to have 1/2" thk T.W. lipping polished mellamine.				
s	All laminates to be 1mm thick of approved shade & finish unless otherwise specified.				
1	Built-in partitions				
1.1	Full ht. / low height solid/ semi glazed partitions :				
	P/F full height solid partitions out of 2"x11/2" salwood section framework 2'-0" c/c both ways treated with antitermite solution, covered with 12 mm thk commercial ply wood / partly glazed with 12mm thick clear glass panel, with approved shape & shade of finish as mentioned below. Design and detail as per the instructions of Architect.Contractor to make provision for all electrical, networking boxes onto partition framework at required heights/levels with necessary additional supports as directed.				
	IMP Note : All the partitions to be fixed with screws only on the vertical faces of the beam. The partitions are to be fixed to the RCC slab only with the adhesive (areldite or equivalent). No screwing shall be done to the RCC slab.				

a	Both sides veneer with melamine polish etc complete	sft	80		
b	One side veneer with melamine polish etc complete	sft	210		
c	Both sides laminate 1mm thick of approved make,colour, finish and design.	sft	6500		-
d	One side laminate 1mm thick of approved make,colour, finish and design	sft	150		-
f	Same as item no. 1 but without 12 mm plywood. This portion of partition will be above false ceiling level.	sft	200		-
1.2	Toughened Glass partition				
	Providing and fixing full height glass partition which includes 12mm thick clear toughened glass of Modi/ equivalent make supported on salwood framework of section 50mmX40mm fixed across @ 600mm c/c both ways above right up to the bottom of RCC slab. The glass to be supported on Aluminium powder coated "U" channel, grouted in the hard flooring/ TW beading fixed on the furniture. Joints between glass to be filled with clear acoustic silicon sealant etc. complete. Mode of measurement to be partition up to False ceiling/finished ceiling level.	sft	3300		
1.3	P/F 12 mm thick clear toughened fixed glass with patch fittings.	sft	80		
2	Column / wall panelling				
2.1	Plywood Panelling				

	Fabricating and fixing built-in wall/column paneling to consist of 37.5mm x 50mm treated salwood framework at spacing not exceeding 600mm bothways (horizontal and vertical). Paneling framework to be secured to wall surface/column surface.				
	Paneling framework to be clad on one side with 12mm thick commercial ply finished with 1.0mm thk laminate of approved design, shade & finish. All the edges along the openings including doors, windows shall be covered with 3/4" thick t.w. lipping and polished melamine as directed.	sft	1600		
2.2	Same as 1 above but for veneer finish including melamine polish etc all complete.	sft	120		
2.5	12 mm ply paneling without salwood frame	sft.	250		
2.4	19 mm ply paneling without salwood frame	sft.	575		
2.6	19mm ply panelling without salwood frame finished with veneer, melamine polish.	sft	235		
2.7	P&F 1.0mm thick laminate of approved make and colour.	sft	150		
2.8	P&F 1.0 mm thick Marker Board laminate of approved shade on Partitions.	sft	120		
2.9	P&F 4mm thick veneer of approved colour and finished with melamine polish	sqft	50		
2.10	Shaft shutters				
	Providing and fixing shaft shutters in 25mm thick commercial grade block board finished in approved shade laminate on exposed surface and 1mm thick balancing laminate on the interior surface with approved beading and framework in teak wood of section 50mmX35mm, finished in colour polish matching the colour of the laminate. Rate to be inclusive of providing and fixing of Aluminium Grill finished in approved shade powder coating for ventilation, necessary hardware including hinges, magnetic ball-catch, approved handles, tower bolt, mortise/dead lock etc complete.	sft	480		

3	Skirting, Trims & louvres				
3.1	Providing & fixing TW capping (4" x 1 1/4") with melamine polish	rft.	200		
3.2	Skirting in veneer / teak wood of 4" high over partition finished in melamine polish.	rft	175		
3.3	P&F 3"wide colour anodised aluminium louvers in the partirion with 6mm thk x75mm wide anodised aluminium flat.	sft	175		
3.4	Vitrified Tile Skirting				
	Providing and cladding 100mm high skirting in 9mm thk vitrified tile of approved make and sample in pattern as per detailed drawings in cement paste on a backing coat of cement mortar 1:3 and/or pasted with chemical adhesive on the furniture partitions, storage units, table skirting etc . The rate should be inclusive of cleaning joints and grouting them with neat white cement paste with pigmented additives to match shade of the tile. Skirting to be fixed flush with finished surface of wall, partition, units as specified on site in line and level and 6mm wide groove to be made in wall at the junction of skirting and finished surface of wall etc complete. (Tile same as that used by the civil contractor , Basic rate Rs. 120/- per sq.ft)	rft	3400		
4	Doors				
	Applicable hardwares to be considered for following doors according to requirement as per detailed drawings and approval by Architect:				
	heavy duty Door closer				
	SS Ball bearing Hinges				
	SS foot operated Door stopper				
	SS Mortise Latch Lock / concealed dead lock				
	SS Mortise Handle				
	Any other hardware etc required to complete the related works.				

4.1	Fabricating and fixing single leaf solid core flush door 40mm thick factory made, finished on both sides with 1mm thick laminate of approved shade. Shutter to be fitted with heavy duty brass hinges and door closer of approved make. Shutter to be lipped on all sides with 12mm thick teak wood beading with 18"x12" size powder coated aluminium louvres for ventilation/ viewing glass window as indicated in the drawing				
	All exposed wood veneer and timber surfaces to be finished with minimum 2 coats of spray applied matt melamine polish of approved shade.				
a	Size: 2'6" x 7'0"	No.	1		
b	Size: 2'9" x 7'0"	No.	1		
c	Size: 3'0"x7'0"	No.	3		
d	Size: 3'6" x 7'0"	No.	1		
4.2	Same as 1above but with both side veneer melamine finish.				
a	Size: 3'0"x7'0"	No.	1		
4.3	Extra for use of floor spring of approved Make in place of door closed.	no	0		
4.4	Providing and fixing 12mm thick toughened glass door with patch fittings & all necessary hardware. Cost to include cost towards etching etc as required by the Architect.The rate includes the cost for Floor spring, S.S. handles of size 12" of approved design and make from both sides, lock and all necessary hardware as required by the Architect.				
a	Size: 4'x7'	No.	4		
b	Size 3' x 7'	No.	37		
4.5	Providing & fixing 50mm thick flushed door/plywood door finished with 1mm thick laminate of approved shade on both sides complete with all hardware required including floor spring, door stopper, mortice lock/dead lock, 24" s.s. handle of approved design & make from both sides, tower bolt etc.				
a	4'0"x7'0"	No.	1		
b	4'0"x8'0"	No.	2		

5	Door Frame				
5.1	Providing & fixing door frame of aprox 12" wide 1 /12"thick made in plywood finished with 1 mm thk laminate. All exposed edges of plywood to be covered with 12mm thick T.W. lipping and polished melamine to match the laminate.	rft	50		
5.2	Same as above but18" wide, 2" thk finished with veneer polished melamine as per architects instructions.	rft	36		
6	Storage units				
	Specification				
	Providing and fixing the storage units of specified depth as per drawing. The storage units shall have shutters made in 19mm thick plywood and finished in 1.0 mm thick laminate of approved shade from all sides including top. The unit to have 12mm thick ply back. Inside of the unit finished in 1mm thick balancing laminate. The storage units shall have intermediate shelves at aprox every 16" ht. made in 19mm thick plywood & laminate from both sides with teak wood lipping/approved PVC edge binding. The storage shall have teak wood edge moulding as per the detail drawings. This also includes providing necessary hardware like magnetic ball catch, s.s.handles, fully extendable drawer telescopic sliders, s.s. studs for adjustable shelving, hinges, locks, tower bolts, door stopper chain etc of approved make. All exposed wooden surfaces shall be stained to shade as directed by the Architects and polished melamine .				
6.1	Up to 20"deep				
a	Same as 6.0, finished in laminate from all sides.	sft	1900		
b	Same as 6.0, finished in laminate from all sides except backside.	sft	50		

c	Same as 6.0, but finished in laminate from all sides except backside & 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.	sft	80		
d	Same as 6.0 above but finished in veneer from all visible sides except back side and polished with spray applied matt melamine	sft	100		
6.2	Up to 16" deep				
a	Same as 6.0 above, finished in laminate from all sides.	sft	70		
b	Same as 6.0 above, finished in laminate from all sides except backside.	sft	480		
c	Same as 6.0 above, but finished in laminate finish from all sides except backside & 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.	sft	50		
d	Same 6.0 above, but finished in veneer from all visible sides except back side and polished with spray applied matt melamine	sft	85		
6.3	Up to 12" deep				
a	Same as 6.0 above,finished in laminate from all sides except backside	sft	550		
b	Same as 6.0 above, but in veneer finish from all visible sides except back side and polished with spray applied matt melamine	sft	300		

c	Same as 6.0 above, but finished in veneer from all visible sides incl inside and polished with spray applied matt melamine& 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.The unit to have internal shelves in 12mm thick clear glass at every aprox 15"ht with all side crystal edge polish supported on s.s. D brackets/ shelf buttons.	sft	210		
6.4	Providing and fixing wardrobe unit aprox 2'deep as per drawing. The storage units shall have shutters made in 25mm thick marine blockboard and finished in 1.0 mm thick laminate of approved shade from outside and 1.0 mm thick balacing laminate of approved make & colour from inside. The shutters are hinged with at least 4nos. 3"wide hinges .The storage shall have 6"deep drawers & hanger space as per the design. The storage units shall have intermediate shelves made in 18mm thick com.plywood & laminate from both sides with 6mm teak wood lipping. This also includes providing necessary hardware like magnetic ball catch, 12" s.s.handles , s.s. studs for adjustable shelving, hinges, locks,1-1/4"wardrobe lock (dimple key) tower bolts 1/2" rod, door stopper, s.s ovel hanger rod, door stay, coat hooks 3nos per shutter, tie holder, etc of approved make. All exposed wooden surfaces shall be stained to shade as directed by the Architects and polished melamine .	sft	32		
6.4	P & F Anodised Aluminium 'G' Profile handles on the storage shutters/drawers hafale/ hettich equivalent approved by the architect.	rft	1150		
7	P/F Fascia/shutter to s.s.drawers below pantry platform in both side laminated 19 mm thick marine ply complete with necessary hardware such as anodised aluminium 'G' profile handles spanning full length of the drawers, hinges, magnetic ball catch etc.	sft	20		
8	Tables				
8.1	Reception desk 1				

	<p>Fabricating and fixing Reception desk in split levels. The overall size of the table would be aprox 10'x2'-0". The table to have 2'-0" wide worktop at 2'6"(Level 1) and 9"wide 8' long 2" thick counter top at 3'9" (level2) suppretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. All the exposed edges of the table to be finished with 12mm thick matching lipping. The edge if the table to be theakened to 1 1/2". The table to include two sets of - articulated keyboard tray(30"x15"), four pencil drawers 100mm thick, 2nos.metalic cpu trolly,two pedestal unit of size 18"x21"x27" with casters,comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate.</p>	no	1		
8.1	Reception desk 2				
	<p>Fabricating and fixing Reception desk in split levels. The overall size of the table would be aprox 5'-9"x1'-9". The table to have 1'-9" wide worktop at 2'6"(Level 1) and 9"wide 4' long 2" thick counter top at 3'9" (level2) suppretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. All the exposed edges of the table to be finished with 12mm thick matching lipping. The edge of the table to be theakened to 1 1/2". The table to include one sets of - articulated keyboard tray(30"x15"), 1nos.metalic cpu trolly,one pedestal unit of size 18"x18"x27"comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager & casters etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate.</p>	no	1		
8.3	Tables in office cubicles				

	<p>Fabricating & fixing table of worktop size 6'6"x2' & discussion side top of overall size 5'8"x2'6", with post form top & vertical made by 25 mm board with laminate supported by m.s.powdercoated legs/brackets as per approved design with 1 1/2" thick modesty board of shape as per the table profile finished in laminate.The table to include one articulated keyboard tray & pedestal storage unit of size 18"x21"x27" with 3 drawers, metallic cpu trolley.The works to include all hardware like 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single control type), handles etc. of approved make. All exposed edges to have t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.</p>	nos	14		
8.4	Director's Table				
	<p>Fabricating & fixing table of overall size 10'x3' with top & vertical made in plywood finished with 4mm thk veneer polished melamine matt finish from all visible sides with necessary S.S. legs/brackets as per approved design with modesty board in 1 1/2" thick ply and veneer finish.The table to include one articulated keyboard tray & pedestal storage unit of size 18"x24"x27" with 4 drawers, metallic cpu trolley.The works to include all hardware like 4"x1" s.s. legs, 3/4"dia s.s studs, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single control type), handles etc. of approved make. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.</p>	no	1		
8.5	Director's Side unit				

	Supply and fixing of side table unit of overall size 4'-0"x2'-0 x 2'-3"ht in 19mm thk ply finished in veneer polished melamine. The edge of the top to be finished with 1 1/2" wide T.W. lipping stained to match the veneer. The unit to include 2 sets of 3 drawers & a shutter as per architects design.the work to include good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single contrul type), handles etc. of approved make. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing laminate of approved colour.	no	1		
8.6	Secretary's table				
	Fabricating and fixing Secretary's desk as per design and requirement by Architect. Overall size- 7'x2'-3"x2'6"ht & side table unit of overall size 5'6"x21"x27"ht with storage below table top in ply and veneer finish .The side table shall have 1 set of 3 drawers & shutters in 19mm thick ply. The storage shall have internal shelves in 19mm thk ply finished with laminate, with necessary s.s.fittings & hardware.The main table to include1 1/2"thk modesty board in ply, a drawer pedestal with 4nos. drawers, an articulated keyboard tray (30"x18") and 250mm wide CPU stand. 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single contrul type), handles etc. of approved make. The main table also to have 2"thk & 8"wide ledge finished in veneer attached to the table 15"above the table top. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing laminate of approved colour.	no	1		
8.7	Meeting Table				

	Table for 10 people of overall length 11'-6' and 4'wide in ply and veneer finish polished melamine, as per architects design . The edge of the table to be finished in 2 1/2"x1/2" t.w./matching wood lipping and polished melamine. The veneer to be fixed as per the pattern and design given by the architect. Basic support structure made in 18mm ply and veneer finish. The table to have double modesty panel in ply and veneer finish with all necessary cutouts for electrical/data pop up boxes, access shutters below table,etc.	nos	3		
8.8	Running Counter 1				
	Fabricating & fixing built-in running counter 1 -9" wide & aprox 9'long cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets with top made up of 19mm thk ply finished in veneer. the edge of the table to be thickened to 1 1/2 and finished with 12 mm thick T.W. lipping.The table to include one sets of - articulated keyboard tray(30"x15"), 1nos.metalic cpu trolly,one pedestal unit of size 18"x18"x27"comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager & casters etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate. The works to include all hardware fittings fixtures etc.	no	1		
8.9	Running Counter 2				
	Fabricating & fixing built-in running counter 2' wide cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets with top made up of 25mm thk board with postformed edge with laminate of approved make,colour and design. The works to include all hardware fittings fixtures etc. All exposed edges to have 1/2"thk T.W. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design.All the visible external surface to be in laminate finish	rft	10		
8.10	Running Counter 3				

	<p>Fabricating and fixing of running counter 2' wide with top made up of 25mm thk board with postformed edge with laminate of approved make,colour and design cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets . The table to include a articulated keyboard tray(30"x18") & metallic cpu trolly for every 4 ft length and a drawer pedestal of overall size 18"x21"x27" with 4 drawers, finished in 1.0mm thick laminate from all sides at every 4ft length as per the design. The table to include 25mm thick postformad vertical support at the open end. The table to include, anodised aluminium 'G' profile handles for drawer pedestal, good quality cable manager, fully extendable drawer slides, locks (single contrul type), etc. of approved make. All exposed edges to have t.w. lipping stained to match the laminate and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.The works to include all hardware fittings fixtures etc.</p>	rft	250		
8.11	Service counter				
	<p>Fabricating and fixing Service counter in split levels. The overall size of the table would be aprox 9'x1'-9". The table to have 1'-9" wide worktop at 2'6"(Level 1) and 9"wide 8' long ledge at 3'9" (level2) supproretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. The counter to have polished granite top with straight edge polish from all sides. Basic rate of granite Rs175/-per sq.ft. The counter to have 1 sets of 3 drawers and 6 shutters finished in veneer. The ledge is to be made in 1.5mm thick s.s. 304 grade sheet covered on supproting framework made in 20mmx20mm m.s. square tube. The ledge shall be fixed to the main counter with s.s. studs. The handles are to be continuous anodised aluminium profile sections fixed on the edge of the drawers and shutters as per the details and drawings. The rate to include all necessary hardware including heavy duty telescopic drawer sliders, autoclosing hinges, locks, magnetic ball catch, chain etc.complete.</p>	rft	9		

8.12	Reprography				
	Printer / fax table with built-in storage below				
	Dimension : variable length x 750mm x 750mm height				
	Fabricating and fixing built-in low height storage cabinet of height 750mm and depth 750mm formed of 19mm plywood formwork/carcass and 1 nos internal shelf of 19mm plywood. Shutter of storage unit to be formed of 19mm thick plywood 1mm thick laminate of approved shade, with shutter edges duly lipped with 19mm x 4mm timber beading. Rear backing of storage shall be formed of 6mm thick plywood.				
	All internal surfaces in 0.8mm laminate finish. All exposed surfaces finished with 1mm thick laminate of approved shade.				
	Storage to be complete with hardware installed as directed to consist of the following. Shutter to have hinges of approved make. Each set of shutters to be provided with 1 nos chrome finished multi-purpose lock of approved make, 75mm medium sized stainless steel tower bolt, 1 nos heavy duty SS ball catch, 100mm C type SS handle.	rft.	7		
8.13	Pedestal				
a	Providing drawer pedestal of overall size 18"x21"x27" with two pencil drawers of 100mm deep & a file shutter. Drawers made of 12mm ply finished with veneer outside & wood lipping, mounted on fully extendable telescopic drawer slides. To include all hardware like castors, brass hinges, ballcatches, fully extendable drawer slides, locks, handles etc., of approved make. All exposed edges to have wooden lipping stained to match the desk and melamine finished. Cost to include Borer/antitermite treatment for wood/plywood. The lock to be of single control type. All the internal surfaces to be finished with 1 mm thick laminate.	nos	2		
b	same as above but finished with 1mm thick laminate from outside.	nos	2		
8.14	Wooden bench				

	Fabricating & fixing Bench made in T.W. section of size 8'x1'6"x4"thick in one piece. it is supported on 2 nos 3"dia s.s. pipe legs. The legs are fixed to the wooden member with 12"x12"-6mm thk s.s.base plate and shall have same plate at the top to fix the T.W. section. All surfaces to be finished in melamine polish as approved.	nos	5		
9	Providing and fixing m.s. powdercoated trolley / stand for CPU as per approval from Architect	nos	4		
10	Pin up board				
	Providing and fixing Fabric wrapped soft board panels 15mm thick of specified size & profile with polished TW beading/anodized "L" aluminium 3/4"trim all around. etc. as per architects instructions. The rate should include approved fabric (basic price Rs. 250/rmt). The fabric shall be stretched uniformly along the direction of weave and shall be wrinkle free.	sft	1150		
12	Miscellaneous				
12.1	Centre Table / Corner Table				
	Providing center table made in 19mm thick plywood finished in veneer as per the design. The table to have 12mm thick toughened glass with crystal edge polish supported on 3"s.s. stids. All the surfaces to be polished melamine. Glass top to be cold welded to the ss support.				
a	2'x2'	nos.	5		
b	2'x3'	nos.	1		
c	2'x4'	nos.	1		
12.3	P/F s.s.(grade 304) baskets 21" deep,27"wide & 6" tall below pantry platform complete with telescopic sliders.	nos.	9		
12.6	Mirrors				
	P&F 6mm thick mirrors fixed in 1" aluminium frame with necessary pvc flute board backing. Modi or equivalent	sq.ft	80		

14	Carpet				
	Providing & fixing poly propylene 28 ounce carpet of approved make and colour in roll/tile form, standard/shaw make or equivalent. (basic rate Rs 130/- per sft)	sft.	350		
15	Wallpaper				
	Providing and fixing fabric backing commercial grade wall paper of approved shade with recommended adhesive of approved make which have 100% washable, scratch resistance, peel proof, and fire retardant properties. Cost to include preparation on the panned surface for receiving the wall paper as per the manufacturer specification. Cost of wall paper Rs.180/Sft inclusive of delivery, Octroi, loading- Unloading at site and all taxes thereon.	sft	250		
16	Film work				
16.1	Providing and fixing frosted film patch of 3M or approved equivalent make on Glass Partition in pattern as per drawings as per manufacturer's specifications & warranty etc. complete.	sft.	1750		
16.2	Providing and fixing plotter cut frosted film as per architects design. of 3M or approved equivalent make on Glass Partition as per manufacturer's specifications & warranty etc. complete.	sft.	250		
16.3	Providing and fixing plotter cut vinyl film of approved make and colour as per architects design on wall/Partition as per manufacturer's specifications etc. complete.	sft.	200		
17	P&F granite top with all sides straight edge polish fixed with areldite on storage top. (Basic Rate of Granite Rs. 170/- per sft.)	sft.	10		
	Total Amount Rs.....				

<u>Summary</u>					
					Amount(Rs)
	Section I	POP & False ceiling Work			
	Section II	Carpentry & Joinery Work			
		Total Cost Rs.....			

**TENDER FOR INTERIOR WORKS
FOR CENTRE FOR CLIMATE CHANGE RESEARCH BUILDING
AT
INDIAN INSTITUTE OF TROPICAL METEOROLOGY, PUNE**

Part-II

Commercial Bid

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,
DR.HOMI BHABA ROAD, PASHAN, PUNE-411008**

BOQ for price bid

	BILL OF QUANTITIES				
	Interior Work at Centre for Climate Change Research Building				
	Indian Institute of tropical Meterology				
	Pune				
Sr.	Item	Unit	Quantity	Rate(Rs)	Amount(Rs)
Note	The contractor is to note and allow the following preambles in his scope of work.				
a	Rates quoted must have full compliance with the following including the cost of grey cement, and white cement.				
b	Basic rate shall include all taxes, delivery and handling charges (delivered at site).				
c.	Receiving all materials supplied by your vendors, unloading, storing at location specified. No additional payment will be paid for any increase lead from this location conveying to work site & fixing in position.				
d.	All finished flooring shall be covered with plaster of Paris of 6mm thick over a plastic film without any extra cost till handing over to the Owner.				
e.	Daily housekeeping of work areas which includes segregation of debris like cement based, plastic, glass, wood and collecting in containers provided by you, at an acceptable location inside the site premises.				

f.	Granite slabs should be free of all defects and all grains / patterns shall be properly matched from the same lot. Any colour / lot variation shall be rejected.				
g.	The minimum quality benchmark will be decided by the Architect based on mock up samples before commencing the work.				
h.	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, taxes, transport, labour, overheads and profit, etc				
l.	The basic rate of granite/marble includes supply, taxes and delivery to site of approximately 8' x 4' random slabs (or larger) delivered and unloaded to the point of cutting the same. All granite material shall be "gang saw water cut".				
j.	No wastages shall be paid for seperately. The same shall be factored in the quoted rate.				
k.	If there is a reduction in the basic rate the cost for the same shall be adjusted pro rata in the quoted rates. No increase in basic rates shall be allowed without written approval from the Architect.				
l.	Base sub-grade/sub-floor to be prepared by cleaning all dust/loose particles, caked mortar droppings, etc by scrubbing with steel wire brushes. Surface to be roughened if so required and surface cleaned with water and kept wet for minimum 12 hours.				
m	Bedding layer of mortar to be provided as directed in the case of 19mm+ slabs to correct level, step as instructed.				
n	Finished work to be inclusive of cutting and polishing where specified/applicable				
o	Contractor to be responsible for hiring/operating of all machines/equipment.				

p	Flooring to be cleaned, waxed or acid washed where applicable and as directed.				
q	Pointing to be done using matching coloured grout as specified/directed				
r	All marble flooring/slabs to be polished using tin oxide only.				
s	Slurry for marble flooring to be of white cement only.				
t	In the instance of granite/marble floors, the contractor has to obtain prior approval on dry laying. Wet laying to be carried out only on approval. Not extra cost shall be paid for dry laying.				
	<u>Section - I</u>				
	<u>False ceiling & ducting work</u>				
1	False Ceiling				
1.1	Gypsum False Ceiling				
	Plain gypsum ceiling : Providing and fixing suspended false ceiling consisting of 12.5mm thick Gypsum plaster board suspended on GI framework. GI framework to consist of GI perimeter channels 0.55mm thick 20mm x 30mm along perimeter of false ceiling of ceiling, screw fixed to wall/partition with nylon sleeves and screws @ 600mm c/c. Suspending GI intermediate channels of size 0.9mm thick 45mm x 15mm from the soffit at max dist 1220mm c/c with ceiling angle 0.55mm thick 25mm x 10mm fixed to soffit using proprietary supplied GI cleats and steel expansion fasteners.				
	Ceiling section 0.55mm thick web size 51.5mm and flanges 26mm each and 10.5mm lips are fixed to perpendicular to intermediate channel @ 457mm c/c using connecting clips.				

	12.5mm tapered edge plasterboard (IS 2095-1982) is screw fixed to ceiling section with 25mm drywall screws @ 230mm c/c. Boards to be finished with proprietary supplied jointing tape and jointing compound and sand papered to achieve a smooth and seamless finish. and 2 coats of primer suitable for plasterboard applied ready to receive finish.				
	Rate quoted to include vertical drops of 150mm and all cut-outs required for light fixtures, smoke detectors, ac grills/diffusers and other services cut-outs & 10mm wide groove at the junction of vertical surfaces complete as directed by Architect.				
	Rate quoted to include cost of providing support framework formed of perimeter channels for fixing light fixtures, AC grills/diffusers etc. Also to provide concealed perimeter channel support as required to support modular grid ceiling sections at junction between gypboard false ceiling and modular grid tile ceiling.				
		sft.	7950		
2	Ducting system				

	<p>Providing and fixing in place duct made with T.W. framing and finished with 12mm thick calcium silicate board (Hilux or equivalent) as per the size and details shown in the drawing. The main supporting frame to be made in 3"x2" t.w. sections with diagonal bracing and lateral tie members are to be in 2"x2" t.w. sections. The entire framework to be finished with 3 coats of zinc primer/black japan. The main frames are @ approx 4'-0" apart. The frame is fixed with the screws only on the vertical face of the beam and shall be glued with Araldite to the r.c.c. ceiling. No screws to be fixed to the r.c.c. ceiling. The framework shall be covered with 12mm thick calcium silicate board on 3 sides as shown in the drawing in proper line & level. The joints shall be properly filled in level with the surface ready to apply the paint. The work shall also include all cut-outs required for light fixtures, smoke detectors, ventilation nozzles of approx dia 300mm with necessary support framework if required and other services cut-outs & 6mm wide groove at the junction of vertical surfaces complete as directed by Architect. Mode of measurement : only plan area of the duct. No vertical and or internal surfaces to be added.</p>				
		sft.	3050		
3	Trap doors				
	Specification				

	<p>Providing and fixing trap doors for access to the areas above false ceiling. The trap door shall have an external frame made of 2"x2" Teakwood scantling on which the shutter is hinged. Shutter shall be made of 2" x 1 1/2" Teakwood scantling with suitable cross members and fixed with 6 mm. Marine ply on both sides with fiber glass wool 50 mm thk. sandwiched.or 12mm thick calsium silicate board finished with approved colour luster paint. Both sides of the shutter shall be laminated in approved quality make and colour. Concealed heavy duty hinges shall be used to mount the shutters and locking shall be provided with panel locks. The shutter shall be moulded in level with the false ceiling forming a groove all around. Sufficient number of hinges and locks shall be provided to avoid sagging of the shutter. Key also shall be supplied. No extra rate shall be provided for suspenders or frame works alround for linking the trap door to gypboard false ceiling.</p>				
		sft	100		
	Total Amount Rs.....				
	<u>Section - II</u>				
	-				
	<u>Carpentry & joinery work</u>				
	-				
	IMP Note : All the furniture to be fixed with screws only on the vertical faces of the beam. The furniture members are to be fixed to the RCC slab only with the adhesive (araldite or equivalent). No screwing shall be done to the RCC slab.				
a.	Unless otherwise specified the rates quoted shall be inclusive of the following ~ Cost of material, all applicable taxes/ charges, transport, labour, overheads and profit, etc				
b.	All internal woodwork shall be treated with anti termite and fire retardant paint				
c	All exposed vertical surfaces shall be finished with 4.0mm thick veneer/6-12mm thk t.w.lipping of approved make shade unless otherwise specified.				

d	All exposed veneer shall be group matched natural cut plain veneer of approved make and shade. Indicative basic rate of veneer to be considered : Rs 75 per sft				
e	All exposed veneered, wood, veneer surfaces shall be finished with spry applied matt melamine polish of approved shade				
f	All exposed edges of plywood, blockboard etc shall be finished with 6mm thick lipping beading of Teak wood/specified wood				
g	All plywood, blockboard for office areas shall be alternate core hardwood, water resistant, termite/borer proof first quality commercial grade. Basic rate of 18mm thick com.ply Rs. 65/- per sft.				
h	All plywood, blockboard for wet areas (toilets/pantry) shall be termite/borer proof and first quality waterproof marine grade.				
i	Timber(BTC) used shall be kiln seasoned and should be free from shrinkage, warpage even after fabrication of furniture Indicative basic rate : Rs.4000 per cft				
j	Provision to be made for additional supports and reinforcement that may be required for stability and evenness wherever required in partitions,tables,storages,doors etc.				
k	Contractor to make provisions of all necessary scaffoldings to facilitate high level installations.				
l	Contractor to form openings on partition for services and to seal gaps using silicon sealant.				
m	Where the use of spring loaded auto closing hinges is specified, the same shall be installed strictly as per manufacturers guidelines and relevant tools required for the same.				
n	All items to have sample approved by the architect prior to commencement of mass production				

o	All the hardware including hinges, handles, knobs, sliders, stoppers, profile handles,locks,latches,tower bolts, patch fittings, floor springs, etc. are to be approved by the architect before installtion/fixing.				
p	whereever required the cutouts for electrical fixtures, switch boards, data points, and for any other services are to be made in the furniture,tables, partitions etc. with additional support if required as per the details and architects instructions and should not be charged seperately.				
q	Actual dimensions on site may vary. The work shall be carried out by as per the site measurements.				
r	All the exposed edges of the tables to have 1/2" thk T.W. lipping polished mellamine.				
s	All laminates to be 1mm thick of approved shade & finish unless otherwise specified.				
1	Built-in partitions				
1.1	Full ht. / low height solid/ semi glazed partitions :				
	P/F full height solid partitions out of 2"x11/2" salwood section framework 2'-0" c/c both ways treated with antitermite solution, covered with 12 mm thk commercial ply wood / partly glazed with 12mm thick clear glass panel, with approved shape & shade of finish as mentioned below. Design and detail as per the instructions of Architect.Contractor to make provision for all electrical, networking boxes onto partition framework at required heights/levels with necessary additional supports as directed.				
	IMP Note : All the partitions to be fixed with screws only on the vertical faces of the beam. The partitions are to be fixed to the RCC slab only with the adhesive (areldite or equavalent). No screwing shall be done to the RCC slab.				
a	Both sides veneer with melamine polish etc complete	sft	80		

b	One side veneer with melamine polish etc complete	sft	210		
c	Both sides laminate 1mm thick of approved make,colour, finish and design.	sft	6500		-
d	One side laminate 1mm thick of approved make,colour, finish and design	sft	150		-
f	Same as item no. 1 but without 12 mm plywood. This portion of partition will be above false ceiling level.	sft	200		-
1.2	Toughened Glass partition				
	Providing and fixing full height glass partition which includes 12mm thick clear toughened glass of Modi/ equivalent make supported on salwood framework of section 50mmX40mm fixed across @ 600mm c/c both ways above right up to the bottom of RCC slab. The glass to be supported on Aluminium powder coated "U" channel, grouted in the hard flooring/ TW beading fixed on the furniture. Joints between glass to be filled with clear acoustic silicon sealant etc. complete. Mode of measurement to be partition up to False ceiling/finished ceiling level.	sft	3300		
1.3	P/F 12 mm thick clear toughened fixed glass with patch fittings.	sft	80		
2	Column / wall panelling				
2.1	Plywood Panelling				
	Fabricating and fixing built-in wall/column paneling to consist of 37.5mm x 50mm treated salwood framework at spacing not exceeding 600mm bothways (horizontal and vertical). Paneling framework to be secured to wall surface/column surface.				

	Paneling framework to be clad on one side with 12mm thick commercial ply finished with 1.0mm thk laminate of approved design, shade & finish. All the edges along the openings including doors, windows shall be covered with 3/4" thick t.w. lipping and polished melamine as directed.	sft	1600		
2.2	Same as 1 above but for veneer finish including melamine polish etc all complete.	sft	120		
2.5	12 mm ply paneling without salwood frame	sft.	250		
2.4	19 mm ply paneling without salwood frame	sft.	575		
2.6	19mm ply panelling without salwood frame finished with veneer, melamine polish.	sft	235		
2.7	P&F 1.0mm thick laminate of approved make and colour.	sft	150		
2.8	P&F 1.0 mm thick Marker Board laminate of approved shade on Partitions.	sft	120		
2.9	P&F 4mm thick veneer of approved colour and finished with melamine polish	sqft	50		
2.10	Shaft shutters				
	Providing and fixing shaft shutters in 25mm thick commercial grade block board finished in approved shade laminate on exposed surface and 1mm thick balancing laminate on the interior surface with approved beading and framework in teak wood of section 50mmX35mm, finished in colour polish matching the colour of the laminate. Rate to be inclusive of providing and fixing of Aluminium Grill finished in approved shade powder coating for ventilation, necessary hardware including hinges, magnetic ball-catch, approved handles, tower bolt, mortise/dead lock etc complete.	sft	480		
3	Skirting, Trims & louvres				
3.1	Providing & fixing TW capping (4" x 1 1/4") with melamine polish	rft.	200		

3.2	Skirting in veneer / teak wood of 4" high over partition finished in melamine polish.	rft	175		
3.3	P&F 3"wide colour anodised aluminium louvers in the partition with 6mm thk x75mm wide anodised aluminium flat.	sft	175		
3.4	Vitrified Tile Skirting				
	Providing and cladding 100mm high skirting in 9mm thk vitrified tile of approved make and sample in pattern as per detailed drawings in cement paste on a backing coat of cement mortar 1:3 and/or pasted with chemical adhesive on the furniture partitions, storage units, table skirting etc . The rate should be inclusive of cleaning joints and grouting them with neat white cement paste with pigmented additives to match shade of the tile. Skirting to be fixed flush with finished surface of wall, partition, units as specified on site in line and level and 6mm wide groove to be made in wall at the junction of skirting and finished surface of wall etc complete. (Tile same as that used by the civil contractor , Basic rate Rs. 120/- per sq.ft)	rft	3400		
4	Doors				
	Applicable hardwares to be considered for following doors according to requirement as per detailed drawings and approval by Architect:				
	heavy duty Door closer				
	SS Ball bearing Hinges				
	SS foot operated Door stopper				
	SS Mortise Latch Lock / concealed dead lock				
	SS Mortise Handle				
	Any other hardware etc required to complete the related works.				

4.1	Fabricating and fixing single leaf solid core flush door 40mm thick factory made, finished on both sides with 1mm thick laminate of approved shade. Shutter to be fitted with heavy duty brass hinges and door closer of approved make. Shutter to be lipped on all sides with 12mm thick teak wood beading with 18"x12" size powder coated aluminium louvres for ventilation/ viewing glass window as indicated in the drawing				
	All exposed wood veneer and timber surfaces to be finished with minimum 2 coats of spray applied matt melamine polish of approved shade.				
a	Size: 2'6" x 7'0"	No.	1		
b	Size: 2'9" x 7'0"	No.	1		
c	Size: 3'0"x7'0"	No.	3		
d	Size: 3'6" x 7'0"	No.	1		
4.2	Same as 1above but with both side veneer melamine finish.				
a	Size: 3'0"x7'0"	No.	1		
4.3	Extra for use of floor spring of approved Make in place of door closed.	no	0		
4.4	Providing and fixing 12mm thick toughened glass door with patch fittings & all necessary hardware. Cost to include cost towards etching etc as required by the Architect.The rate includes the cost for Floor spring, S.S. handles of size 12" of approved design and make from both sides, lock and all necessary hardware as required by the Architect.				
a	Size: 4'x7'	No.	4		
b	Size 3' x 7'	No.	37		
4.5	Providing & fixing 50mm thick flushed door/plywood door finished with 1mm thick laminate of approved shade on both sides complete with all hardware required including floor spring, door stopper, mortice lock/dead lock, 24" s.s. handle of approved design & make from both sides, tower bolt etc.				
a	4'0"x7'0"	No.	1		
b	4'0"x8'0"	No.	2		

5	Door Frame				
5.1	Providing & fixing door frame of aprox 12" wide 1 /12"thick made in plywood finished with 1 mm thk laminate. All exposed edges of plywood to be covered with 12mm thick T.W. lipping and polished melamine to match the laminate.	rft	50		
5.2	Same as above but18" wide, 2" thk finished with veneer polished melamine as per architects instructions.	rft	36		
6	Storage units				
	Specification				
	Providing and fixing the storage units of specified depth as per drawing. The storage units shall have shutters made in 19mm thick plywood and finished in 1.0 mm thick laminate of approved shade from all sides including top. The unit to have 12mm thick ply back. Inside of the unit finished in 1mm thick balancing laminate. The storage units shall have intermediate shelves at aprox every 16" ht. made in 19mm thick plywood & laminate from both sides with teak wood lipping/approved PVC edge binding. The storage shall have teak wood edge moulding as per the detail drawings. This also includes providing necessary hardware like magnetic ball catch, s.s.handles, fully extendable drawer telescopic sliders, s.s. studs for adjustable shelving, hinges, locks, tower bolts, door stopper chain etc of approved make. All exposed wooden surfaces shall be stained to shade as directed by the Architects and polished melamine .				
6.1	Up to 20"deep				
a	Same as 6.0, finished in laminate from all sides.	sft	1900		
b	Same as 6.0, finished in laminate from all sides except backside.	sft	50		

c	Same as 6.0, but finished in laminate from all sides except backside & 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.	sft	80		
d	Same as 6.0 above but finished in veneer from all visible sides except back side and polished with spray applied matt melamine	sft	100		
6.2	Up to 16" deep				
a	Same as 6.0 above, finished in laminate from all sides.	sft	70		
b	Same as 6.0 above, finished in laminate from all sides except backside.	sft	480		
c	Same as 6.0 above, but finished in laminate finish from all sides except backside & 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.	sft	50		
d	Same 6.0 above, but finished in veneer from all visible sides except back side and polished with spray applied matt melamine	sft	85		
6.3	Up to 12" deep				
a	Same as 6.0 above,finished in laminate from all sides except backside	sft	550		
b	Same as 6.0 above, but in veneer finish from all visible sides except back side and polished with spray applied matt melamine	sft	300		

c	Same as 6.0 above, but finished in veneer from all visible sides incl inside and polished with spray applied matt melamine& 6mm thick clear glass shutters - with 3"x1 1/2"tw section polished melamine/with anodized aluminium profile section 2"x1". The glass shutters to have vertical handle profile section.The unit to have internal shelves in 12mm thick clear glass at every aprox 15"ht with all side crystal edge polish supported on s.s. D brackets/ shelf buttons.	sft	210		
6.4	Providing and fixing wardrobe unit aprox 2'deep as per drawing. The storage units shall have shutters made in 25mm thick marine blockboard and finished in 1.0 mm thick laminate of approved shade from outside and 1.0 mm thick balacing laminate of approved make & colour from inside. The shutters are hinged with at least 4nos. 3"wide hinges .The storage shall have 6"deep drawers & hanger space as per the design. The storage units shall have intermediate shelves made in 18mm thick com.plywood & laminate from both sides with 6mm teak wood lipping. This also includes providing necessary hardware like magnetic ball catch, 12" s.s.handles , s.s. studs for adjustable shelving, hinges, locks,1-1/4"wardrobe lock (dimple key) tower bolts 1/2" rod, door stopper, s.s ovel hanger rod, door stay, coat hooks 3nos per shutter, tie holder, etc of approved make. All exposed wooden surfaces shall be stained to shade as directed by the Architects and polished melamine .	sft	32		
6.4	P & F Anodised Aluminium 'G' Profile handles on the storage shutters/drawers hafale/ hettich equivalent approved by the architect.	rft	1150		
7	P/F Fascia/shutter to s.s.drawers below pantry platform in both side laminated 19 mm thick marine ply complete with necessary hardware such as anodised aluminium 'G' profile handles spanning full length of the drawers, hinges, magnetic ball catch etc.	sft	20		
8	Tables				
8.1	Reception desk 1				

	<p>Fabricating and fixing Reception desk in split levels. The overall size of the table would be aprox 10'x2'-0". The table to have 2'-0" wide worktop at 2'6"(Level 1) and 9"wide 8' long 2" thick counter top at 3'9" (level2) suppretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. All the exposed edges of the table to be finished with 12mm thick matching lipping. The edge if the table to be theakened to 1 1/2". The table to include two sets of - articulated keyboard tray(30"x15"), four pencil drawers 100mm thick, 2nos.metalic cpu trolly,two pedestal unit of size 18"x21"x27" with casters,comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate.</p>	no	1		
8.1	Reception desk 2				
	<p>Fabricating and fixing Reception desk in split levels. The overall size of the table would be aprox 5'-9"x1'-9". The table to have 1'-9" wide worktop at 2'6"(Level 1) and 9"wide 4' long 2" thick counter top at 3'9" (level2) suppretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. All the exposed edges of the table to be finished with 12mm thick matching lipping. The edge of the table to be theakened to 1 1/2". The table to include one sets of - articulated keyboard tray(30"x15"), 1nos.metalic cpu trolly,one pedestal unit of size 18"x18"x27"comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager & casters etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate.</p>	no	1		
8.3	Tables in office cubicles				

	<p>Fabricating & fixing table of worktop size 6'6"x2' & discussion side top of overall size 5'8"x2'6", with post form top & vertical made by 25 mm board with laminate supported by m.s.powdercoated legs/brackets as per approved design with 1 1/2" thick modesty board of shape as per the table profile finished in laminate.The table to include one articulated keyboard tray & pedestal storage unit of size 18"x21"x27" with 3 drawers, metallic cpu trolley.The works to include all hardware like 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single control type), handles etc. of approved make. All exposed edges to have t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.</p>	nos	14		
8.4	Director's Table				
	<p>Fabricating & fixing table of overall size 10'x3' with top & vertical made in plywood finished with 4mm thk veneer polished melamine matt finish from all visible sides with necessary S.S. legs/brackets as per approved design with modesty board in 1 1/2" thick ply and veneer finish.The table to include one articulated keyboard tray & pedestal storage unit of size 18"x24"x27" with 4 drawers, metallic cpu trolley.The works to include all hardware like 4"x1" s.s. legs, 3/4"dia s.s studs, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single control type), handles etc. of approved make. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.</p>	no	1		
8.5	Director's Side unit				

	Supply and fixing of side table unit of overall size 4'-0"x2'-0 x 2'-3"ht in 19mm thk ply finished in veneer polished melamine. The edge of the top to be finished with 1 1/2" wide T.W. lipping stained to match the veneer. The unit to include 2 sets of 3 drawers & a shutter as per architects design.the work to include good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single contrul type), handles etc. of approved make. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing laminate of approved colour.	no	1		
8.6	Secretary's table				
	Fabricating and fixing Secretary's desk as per design and requirement by Architect. Overall size- 7'x2'-3"x2'6"ht & side table unit of overall size 5'6"x21"x27"ht with storage below table top in ply and veneer finish .The side table shall have 1 set of 3 drawers & shutters in 19mm thick ply. The storage shall have internal shelves in 19mm thk ply finished with laminate, with necessary s.s.fittings & hardware.The main table to include1 1/2"thk modesty board in ply, a drawer pedestal with 4nos. drawers, an articulated keyboard tray (30"x18") and 250mm wide CPU stand. 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager, castors, brass hinges, ballcatches, fully extendable drawer slides, locks (single contrul type), handles etc. of approved make. The main table also to have 2"thk & 8"wide ledge finished in veneer attached to the table 15"above the table top. All exposed edges to have 1/2"thk t.w. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing laminate of approved colour.	no	1		
8.7	Meeting Table				

	Table for 10 people of overall length 11'-6' and 4'wide in ply and veneer finish polished melamine, as per architects design . The edge of the table to be finished in 2 1/2"x1/2" t.w./matching wood lipping and polished melamine. The veneer to be fixed as per the pattern and design given by the architect. Basic support structure made in 18mm ply and veneer finish. The table to have double modesty panel in ply and veneer finish with all necessary cutouts for electrical/data pop up boxes, access shutters below table,etc.	nos	3		
8.8	Running Counter 1				
	Fabricating & fixing built-in running counter 1 -9" wide & aprox 9'long cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets with top made up of 19mm thk ply finished in veneer. the edge of the table to be thickened to 1 1/2 and finished with 12 mm thick T.W. lipping.The table to include one sets of - articulated keyboard tray(30"x15"), 1nos.metalic cpu trolly,one pedestal unit of size 18"x18"x27"comprising 2 drawer and file storage. The rate also to include all required hardware including 4"x1" s.s. legs, 3/4"dia s.s studs, anodised aluminium 'G' profile handles for storage, good quality cable manager & casters etc. complete. All external visible surface to be finished in veneer and internal non visible surface to be finished in balancing approved laminate. The works to include all hardware fittings fixtures etc.	no	1		
8.9	Running Counter 2				
	Fabricating & fixing built-in running counter 2' wide cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets with top made up of 25mm thk board with postformed edge with laminate of approved make,colour and design. The works to include all hardware fittings fixtures etc. All exposed edges to have 1/2"thk T.W. lipping stained to match the desk and melamine finished.Design and detail of the table shall be as per Architects design.All the visible external surface to be in laminate finish	rft	10		
8.10	Running Counter 3				

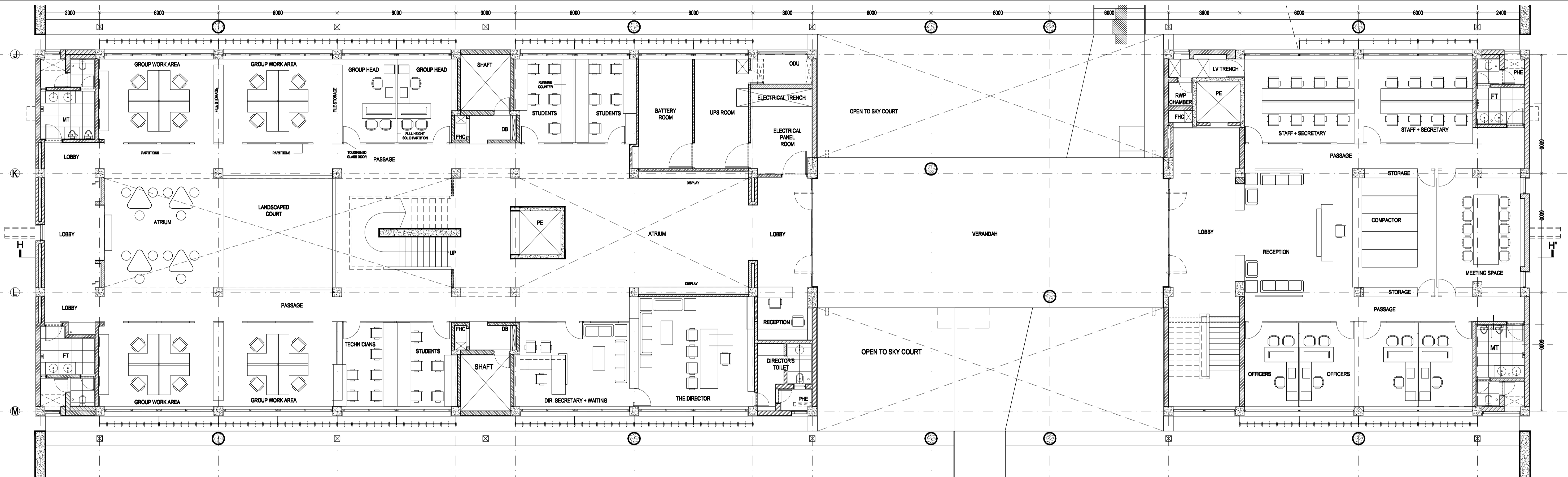
	<p>Fabricating and fixing of running counter 2' wide with top made up of 25mm thk board with postformed edge with laminate of approved make,colour and design cantilever from the wall/partition with intermidiate support brackets in 19mm ply/m.s powdercoated brackets . The table to include a articulated keyboard tray(30"x18") & metallic cpu trolly for every 4 ft length and a drawer pedestal of overall size 18"x21"x27" with 4 drawers, finished in 1.0mm thick laminate from all sides at every 4ft length as per the design. The table to include 25mm thick postformad vertical support at the open end. The table to include, anodised aluminium 'G' profile handles for drawer pedestal, good quality cable manager, fully extendable drawer slides, locks (single contrul type), etc. of approved make. All exposed edges to have t.w. lipping stained to match the laminate and melamine finished.Design and detail of the table shall be as per Architects design. All external visible surface to be finished in laminate and internal non visible surface to be finished in balancing laminate of approved colour.The works to include all hardware fittings fixtures etc.</p>	rft	250		
8.11	Service counter				
	<p>Fabricating and fixing Service counter in split levels. The overall size of the table would be aprox 9'x1'-9". The table to have 1'-9" wide worktop at 2'6"(Level 1) and 9"wide 8' long ledge at 3'9" (level2) supproretd on main table, made in 19mm thick ply and finished in veneer polished melamine from all sides as per design and requirement by Architect. The counter to have polished granite top with straight edge polish from all sides. Basic rate of granite Rs175/-per sq.ft. The counter to have 1 sets of 3 drawers and 6 shutters finished in veneer. The ledge is to be made in 1.5mm thick s.s. 304 grade sheet covered on supproting framework made in 20mmx20mm m.s. square tube. The ledge shall be fixed to the main counter with s.s. studs. The handles are to be continuous anodised aluminium profile sections fixed on the edge of the drawers and shutters as per the details and drawings. The rate to include all necessary hardware including heavy duty telescopic drawer sliders, autoclosing hinges, locks, magnetic ball catch, chain etc.complete.</p>	rft	9		

8.12	Reprography				
	Printer / fax table with built-in storage below				
	Dimension : variable length x 750mm x 750mm height				
	Fabricating and fixing built-in low height storage cabinet of height 750mm and depth 750mm formed of 19mm plywood formwork/carcass and 1 nos internal shelf of 19mm plywood. Shutter of storage unit to be formed of 19mm thick plywood 1mm thick laminate of approved shade, with shutter edges duly lipped with 19mm x 4mm timber beading. Rear backing of storage shall be formed of 6mm thick plywood.				
	All internal surfaces in 0.8mm laminate finish. All exposed surfaces finished with 1mm thick laminate of approved shade.				
	Storage to be complete with hardware installed as directed to consist of the following. Shutter to have hinges of approved make. Each set of shutters to be provided with 1 nos chrome finished multi-purpose lock of approved make, 75mm medium sized stainless steel tower bolt, 1 nos heavy duty SS ball catch, 100mm C type SS handle.	rft.	7		
8.13	Pedestal				
a	Providing drawer pedestal of overall size 18"x21"x27" with two pencil drawers of 100mm deep & a file shutter. Drawers made of 12mm ply finished with veneer outside & wood lipping, mounted on fully extendable telescopic drawer slides. To include all hardware like castors, brass hinges, ballcatches, fully extendable drawer slides, locks, handles etc., of approved make. All exposed edges to have wooden lipping stained to match the desk and melamine finished. Cost to include Borer/antitermite treatment for wood/plywood. The lock to be of single control type. All the internal surfaces to be finished with 1 mm thick laminate.	nos	2		
b	same as above but finished with 1mm thick laminate from outside.	nos	2		
8.14	Wooden bench				

	Fabricating & fixing Bench made in T.W. section of size 8'x1'6"x4"thick in one piece. it is supported on 2 nos 3"dia s.s. pipe legs. The legs are fixed to the wooden member with 12"x12"-6mm thk s.s.base plate and shall have same plate at the top to fix the T.W. section. All surfaces to be finished in melamine polish as approved.	nos	5		
9	Providing and fixing m.s. powdercoated trolley / stand for CPU as per approval from Architect	nos	4		
10	Pin up board				
	Providing and fixing Fabric wrapped soft board panels 15mm thick of specified size & profile with polished TW beading/anodized "L" aluminium 3/4"trim all around. etc. as per architects instructions. The rate should include approved fabric (basic price Rs. 250/rmt). The fabric shall be stretched uniformly along the direction of weave and shall be wrinkle free.	sft	1150		
12	Miscellaneous				
12.1	Centre Table / Corner Table				
	Providing center table made in 19mm thick plywood finished in veneer as per the design. The table to have 12mm thick toughened glass with crystal edge polish supported on 3"s.s. stids. All the surfaces to be polished melamine. Glass top to be cold welded to the ss support.				
a	2'x2'	nos.	5		
b	2'x3'	nos.	1		
c	2'x4'	nos.	1		
12.3	P/F s.s.(grade 304) baskets 21" deep,27"wide & 6" tall below pantry platform complete with telescopic sliders.	nos.	9		
12.6	Mirrors				
	P&F 6mm thick mirrors fixed in 1" aluminium frame with necessary pvc flute board backing. Modi or equivalent	sq.ft	80		

14	Carpet				
	Providing & fixing poly propylene 28 ounce carpet of approved make and colour in roll/tile form, standard/shaw make or equivalent. (basic rate Rs 130/- per sft)	sft.	350		
15	Wallpaper				
	Providing and fixing fabric backing commercial grade wall paper of approved shade with recommended adhesive of approved make which have 100% washable, scratch resistance, peel proof, and fire retardant properties. Cost to include preparation on the panned surface for receiving the wall paper as per the manufacturer specification. Cost of wall paper Rs.180/Sft inclusive of delivery, Octroi, loading- Unloading at site and all taxes thereon.	sft	250		
16	Film work				
16.1	Providing and fixing frosted film patch of 3M or approved equivalent make on Glass Partition in pattern as per drawings as per manufacturer's specifications & warranty etc. complete.	sft.	1750		
16.2	Providing and fixing plotter cut frosted film as per architects design. of 3M or approved equivalent make on Glass Partition as per manufacturer's specifications & warranty etc. complete.	sft.	250		
16.3	Providing and fixing plotter cut vinyl film of approved make and colour as per architects design on wall/Partition as per manufacturer's specifications etc. complete.	sft.	200		
17	P&F granite top with all sides straight edge polish fixed with areldite on storage top. (Basic Rate of Granite Rs. 170/- per sft.)	sft.	10		
	Total Amount Rs.....				

<u>Summary</u>					
					Amount(Rs)
	Section I	POP & False ceiling Work			
	Section II	Carpentry & Joinery Work			
		Total Cost Rs.....			



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CONSULTANTS

H.V.A.C :
 ELECTRICAL : ABHIYANTA

DRAWING REFERENCES:

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GROUND FLOOR

TENDER DRAWING

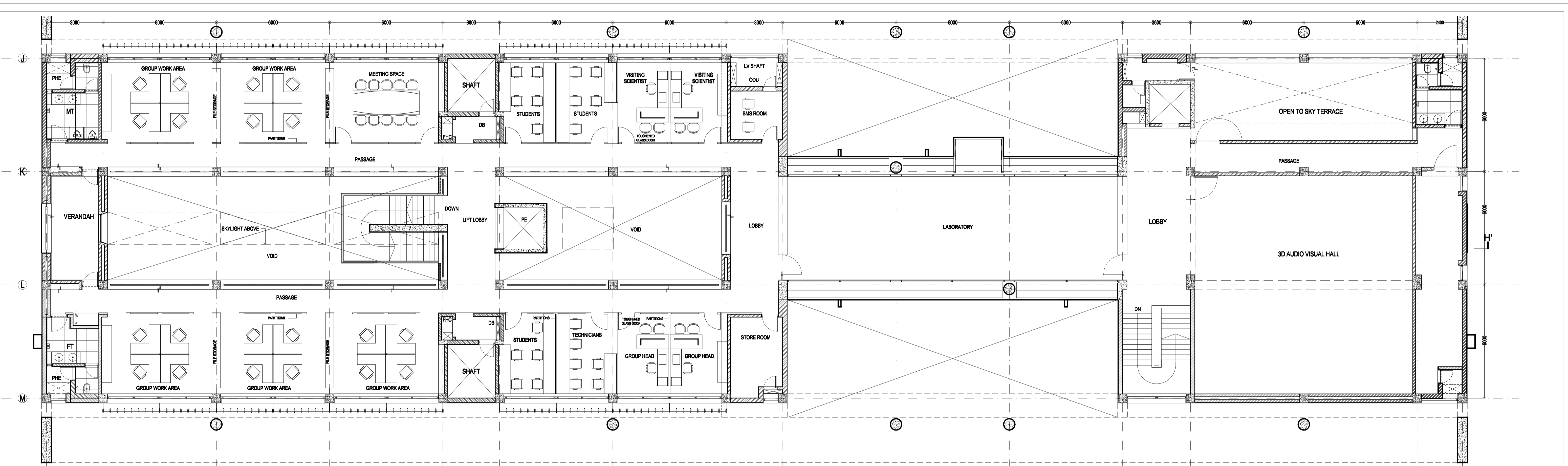
FURNITURE LAYOUT

PROJECT NO.	027	DELT	vw
DRG. NO.	TD1	CHK	-
SCALE	1 : 100	DATE	10.03.12

PROJECT
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SECOND FLOOR

TENDER DRAWING

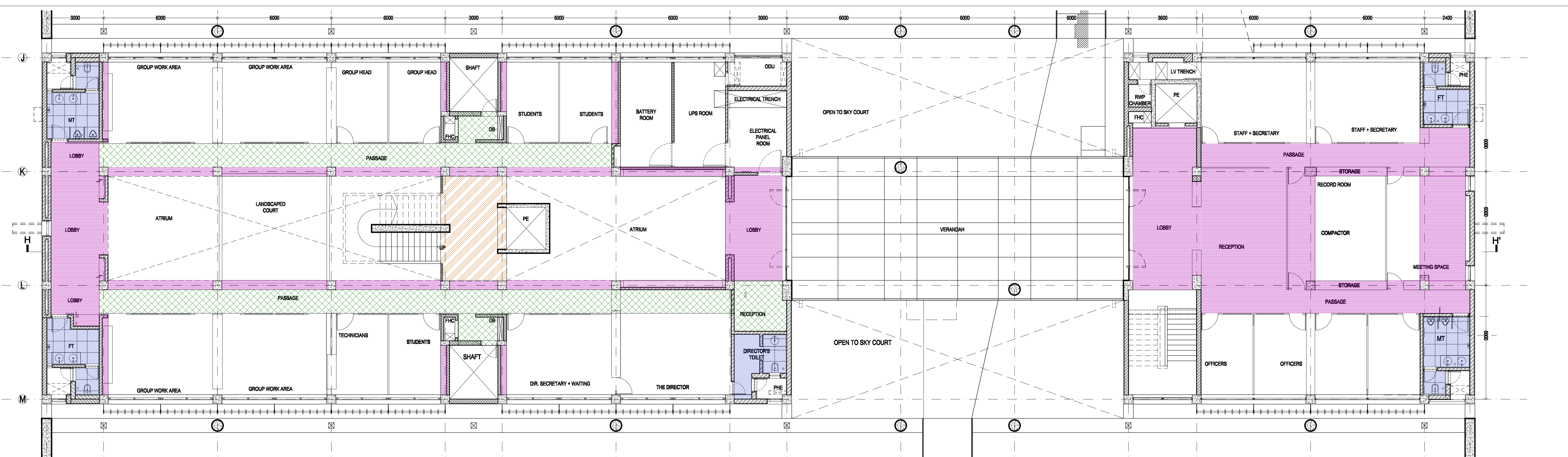
FURNITURE LAYOUT

PROJECT NO.	027	DELT	vw
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LEGEND

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	DUCT SYSTEM AS PER DETAIL		FC AT 2400 FROM FFL
	METAL CEILING		

GROUND FLOOR

TENDER DRAWING

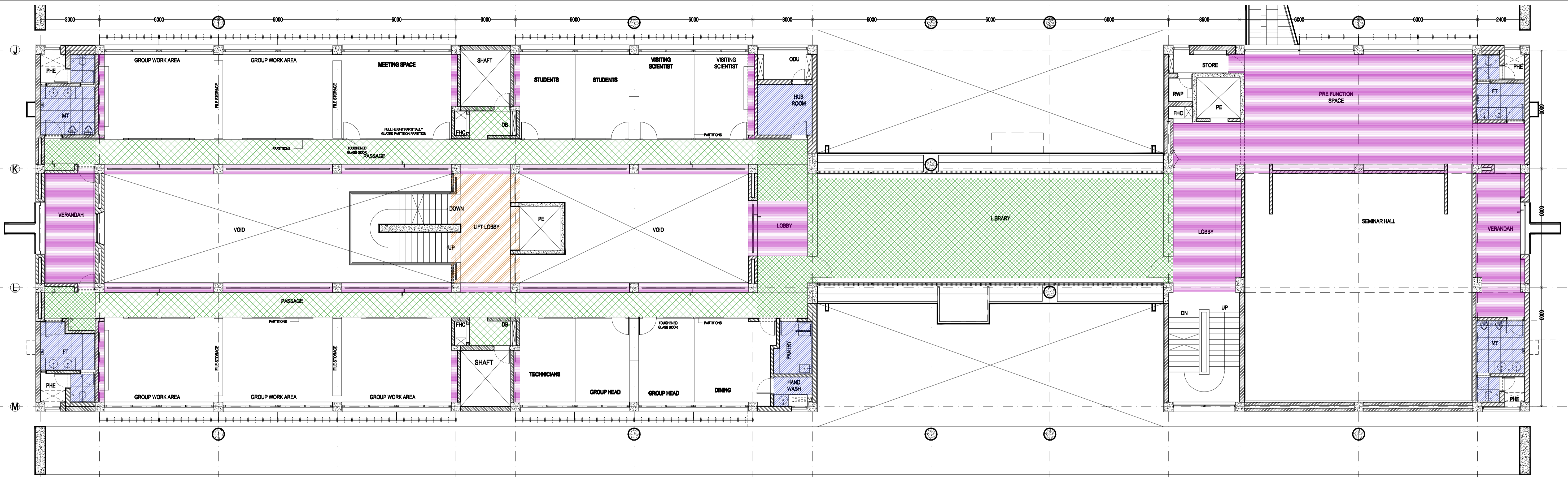
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FIRST FLOOR

TENDER DRAWING

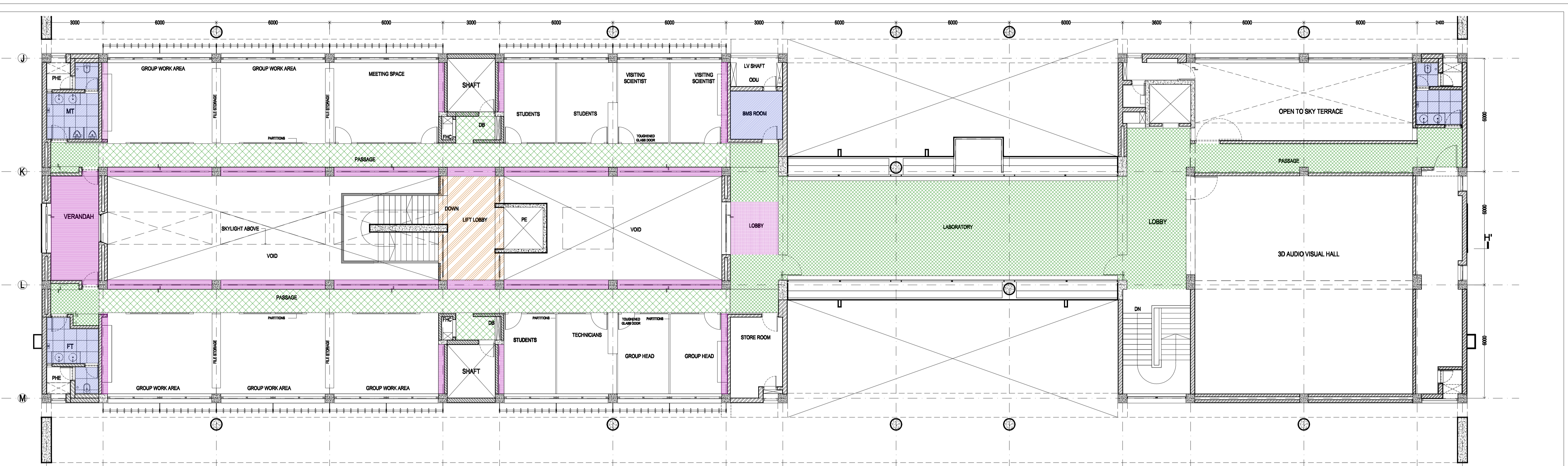
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CONSULTANTS

H.V.A.C :
 ELECTRICAL : ABHIYANTA

DRAWING REFERENCES:

CONSULTANTS	DRG. NO.	REV. NO.	DATE
H.V.A.C.			
ELECTRICAL			

LEGEND

	GYPSUM CEILING		FC AT 3180 FROM FFL
	GYPSUM CEILING		FC AT 2830 FROM FFL
	GYPSUM CEILING		FC AT 2700 FROM FFL
	DUCT SYSTEM AS PER DETAIL		FC AT 2400 FROM FFL
	METAL CEILING		

SECOND FLOOR

TENDER DRAWING

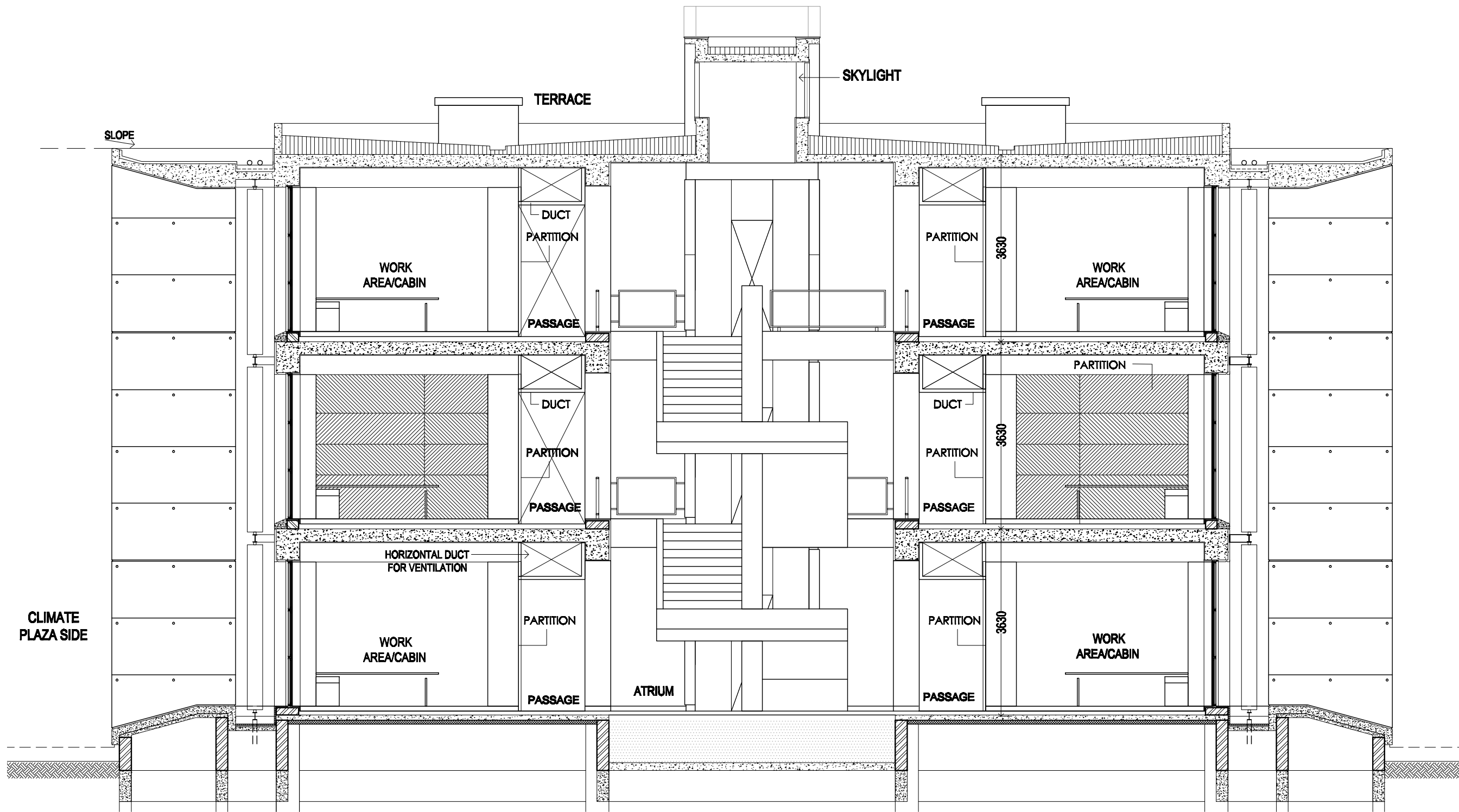
FALSE CEILING LAYOUT

PROJECT NO.	027	DELT	vw
DRG. NO.	TD 6	CHK	
SCALE	1 : 100	DATE	10.03.12

PROJECT
 PROPOSED FURNITURE WORK AT CCR BUILDING, IITM, PUNE

CLIENT
 INSTITUTE OF TROPICAL METEOROLOGY, PUNE

ARCHITECTS
 MADHAV JOSHI AND ASSOCIATES
 ARCHITECTS AND URBAN PLANNERS
 84/1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000



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CONSULTANTS

H.V.A.C :
ELECTRICAL : ABHIYANTA

DRAWING REFERENCES:

CONSULTANTS	DRG.NO.	REV.NO.	DATE
H.V.A.C.			
ELECTRICAL			

TENDER DRAWING

CROSS SECTION

PROJECT NO:	027	DELT	vw
DRG. NO:	TD 7	CHK	-
SCALE	1 : 70	DATE	10.08.12

PROJECT

PROPOSED FURNITURE WORK AT CCCR BUILDING, IITM, PUNE

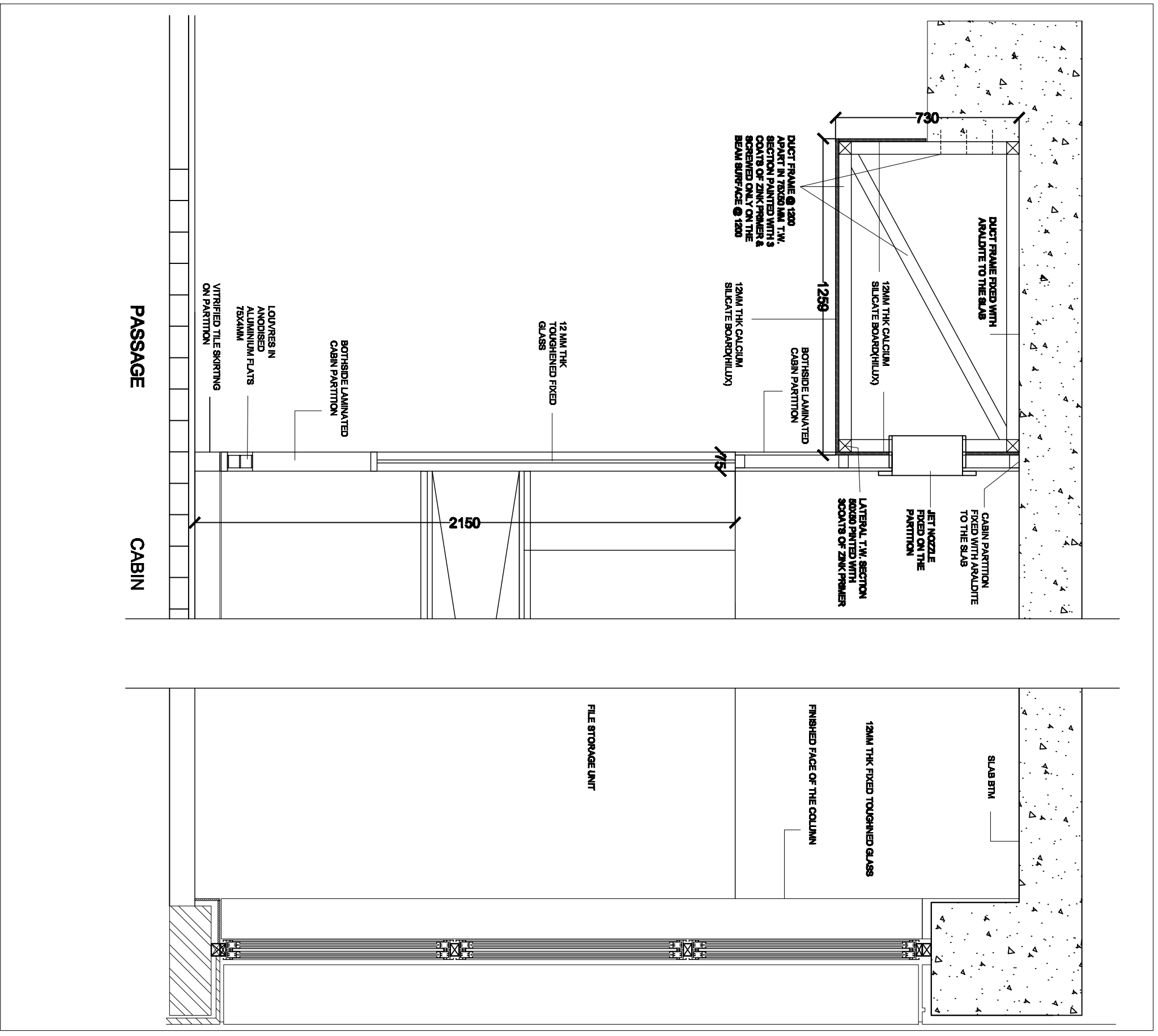
CLIENT

INSTITUTE OF TROPICAL METEOROLOGY, PUNE

ARCHITECTS

MADHAV JOSHI AND ASSOCIATES
ARCHITECTS AND URBAN PLANNERS

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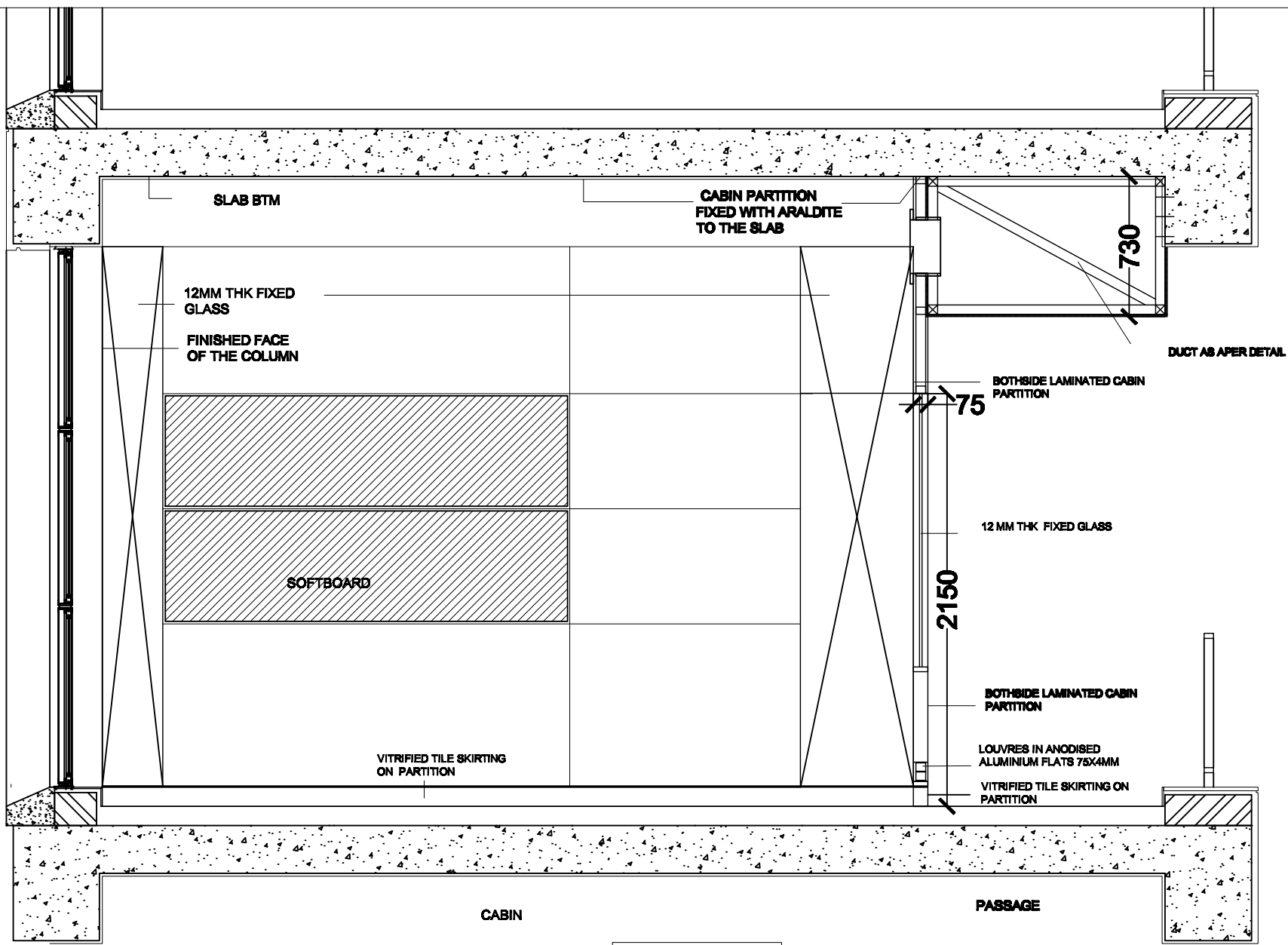
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H.V.A.C.			
ELECTRICAL			

TENDER DRAWING			
DUCT SYSTEM DESIGN INTENT			
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DRG.NO:	TD 6	CHK	-
SCALE	1 : 15	DATE	10.08.12

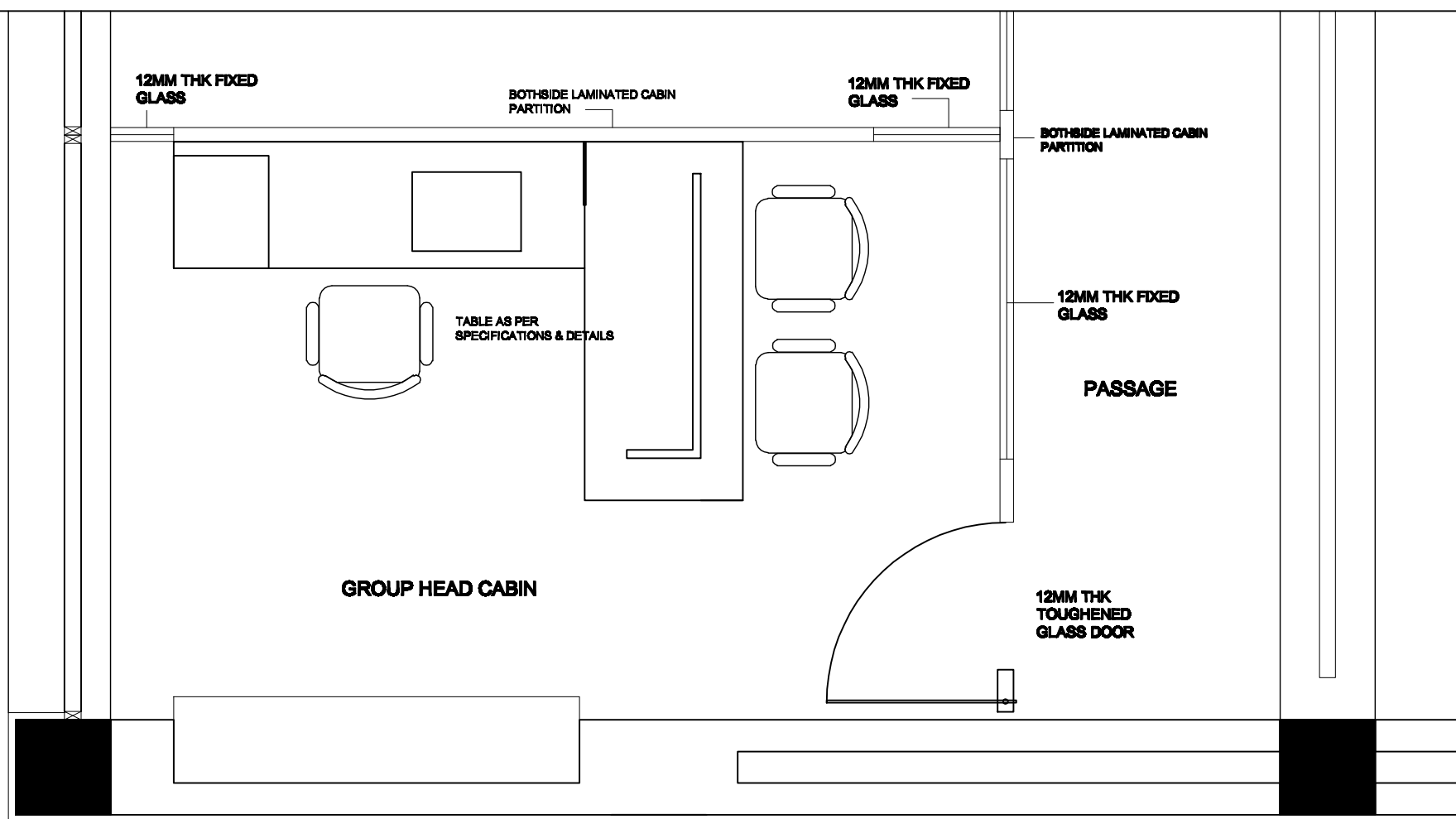
PROJECT
PROPOSED FURNITURE WORK AT CCCR BUILDING, IITM, PUNE

CLIENT
INSTITUTE OF TROPICAL METEOROLOGY, PUNE

ARCHITECTS
MADHAV JOSHI AND ASSOCIATES ARCHITECTS AND URBAN PLANNERS
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 PH: 98 20 287888 / 98 20 287889 Email: info@madhavjoshi.com

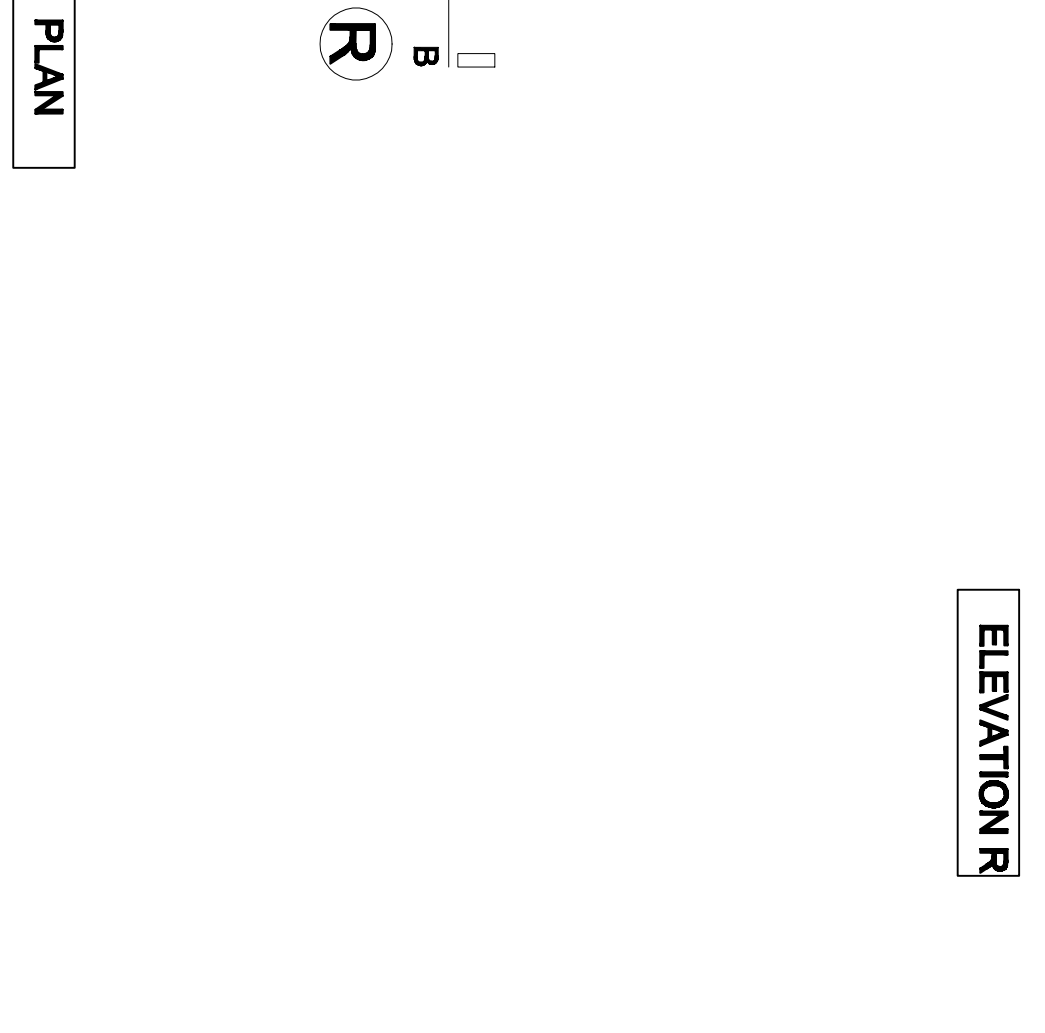
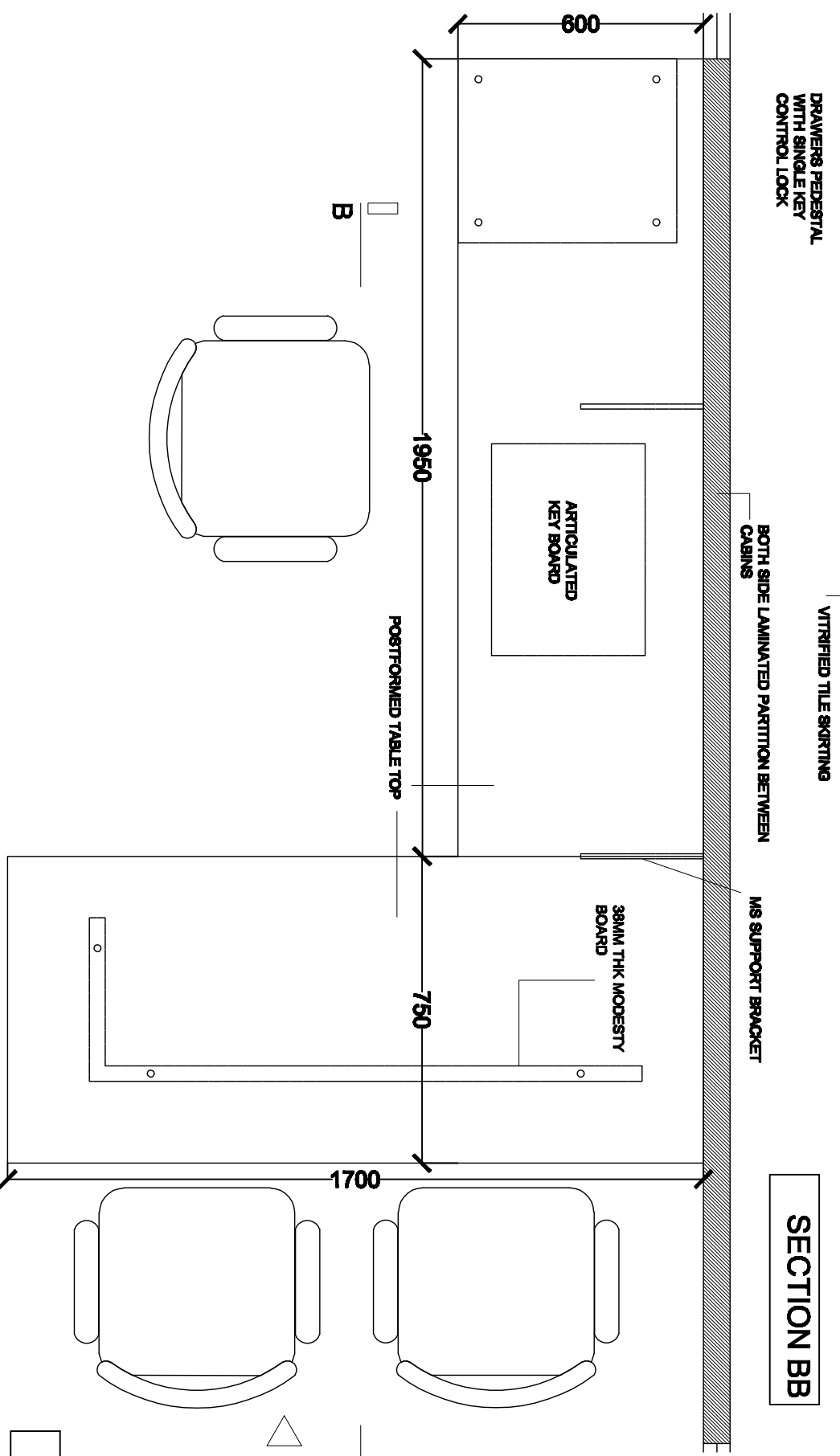
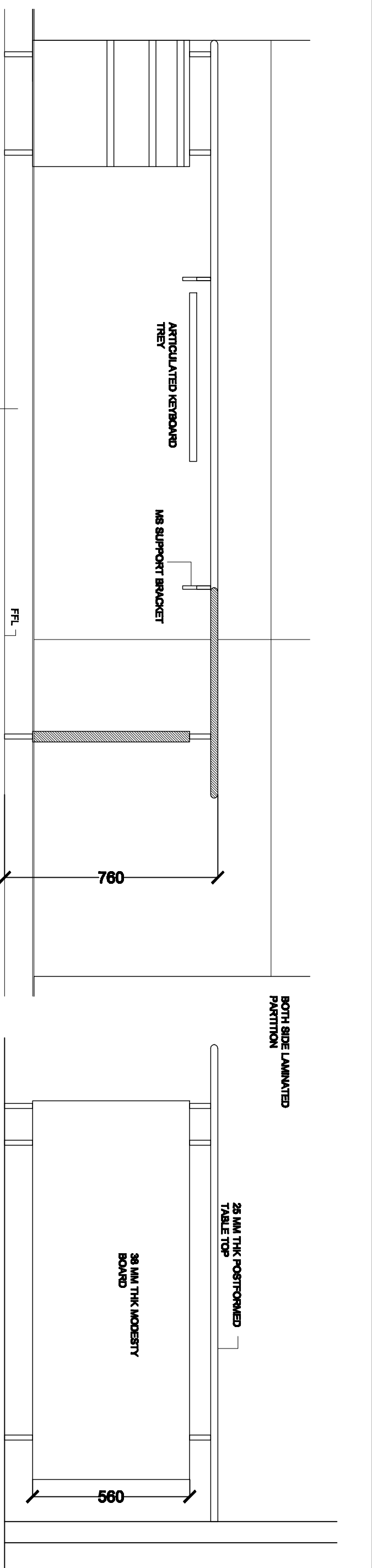


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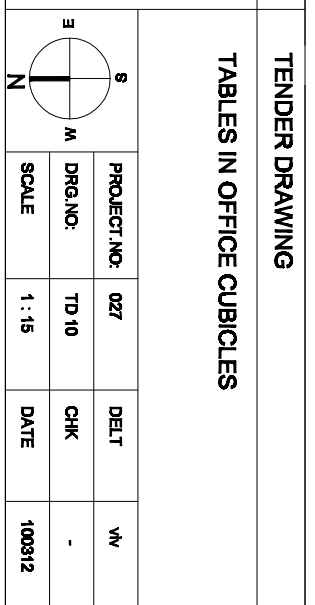


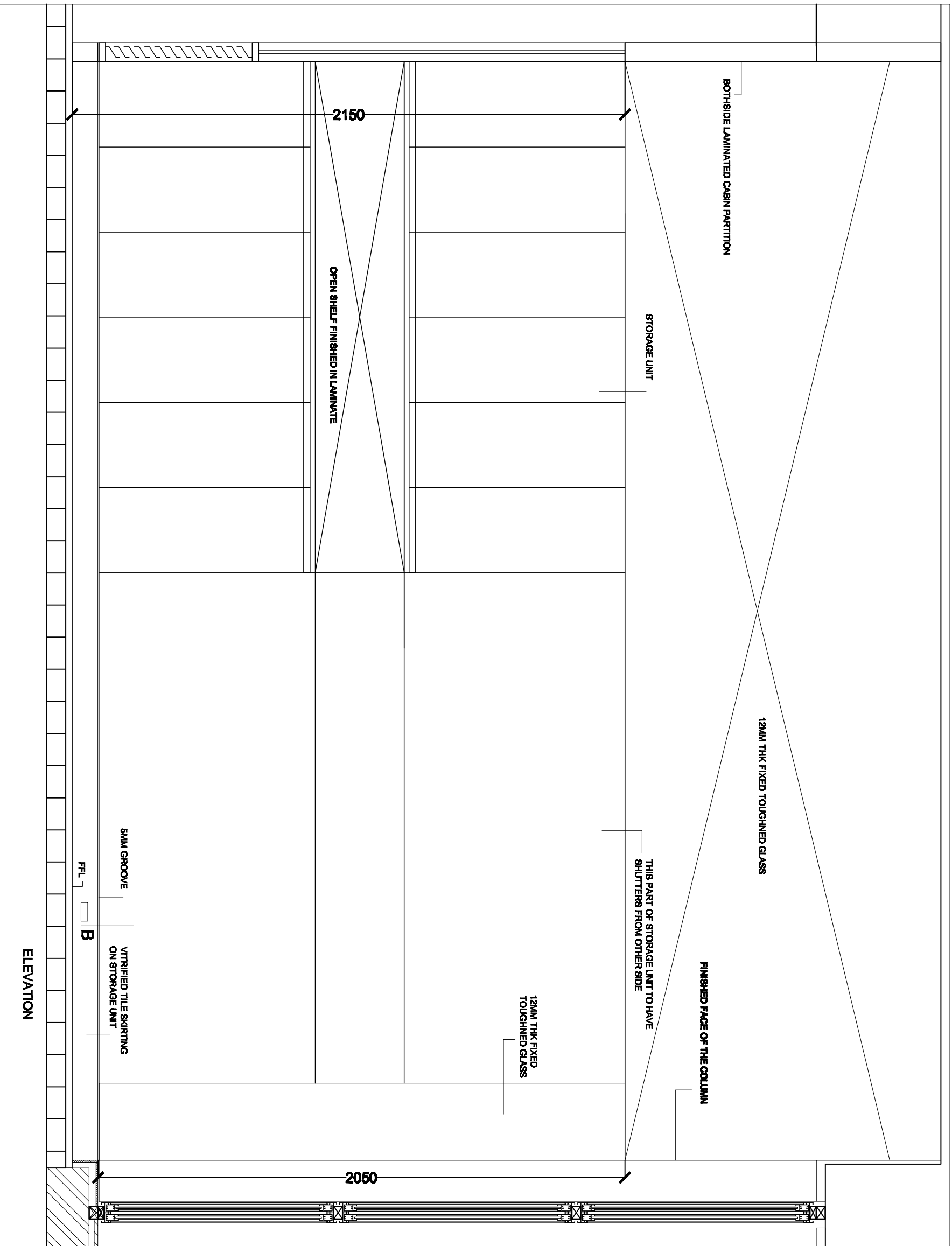
PLAN

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	DRAWING REFERENCES: <table border="1"> <thead> <tr> <th>CONSULTANTS</th> <th>DRG.NO.</th> <th>REV.NO.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>H.V.A.C.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ELECTRICAL</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	CONSULTANTS	DRG.NO.	REV.NO.	DATE	H.V.A.C.				ELECTRICAL					<table border="1"> <tr> <td>PROJECT NO:</td> <td>027</td> <td>DELT</td> <td>vw</td> </tr> <tr> <td>DRG. NO:</td> <td>TD 9</td> <td>CHK</td> <td>-</td> </tr> <tr> <td>SCALE</td> <td>1" = 2</td> <td>DATE</td> <td>10.03.12</td> </tr> </table>	PROJECT NO:	027	DELT	vw	DRG. NO:	TD 9	CHK	-	SCALE	1" = 2	DATE	10.03.12	CLIENT INSTITUTE OF TROPICAL METEOROLOGY, PUNE ARCHITECTS MADHAV JOSHI AND ASSOCIATES ARCHITECTS AND URBAN PLANNERS 8-MATRUSHRITI, 02-MAYUR COLONY, KOTHRUD, PUNE-411038. PH: + 91 20 25410557 / 58. E-mail: mjaarchitects@gmail.com
CONSULTANTS	DRG.NO.	REV.NO.	DATE																									
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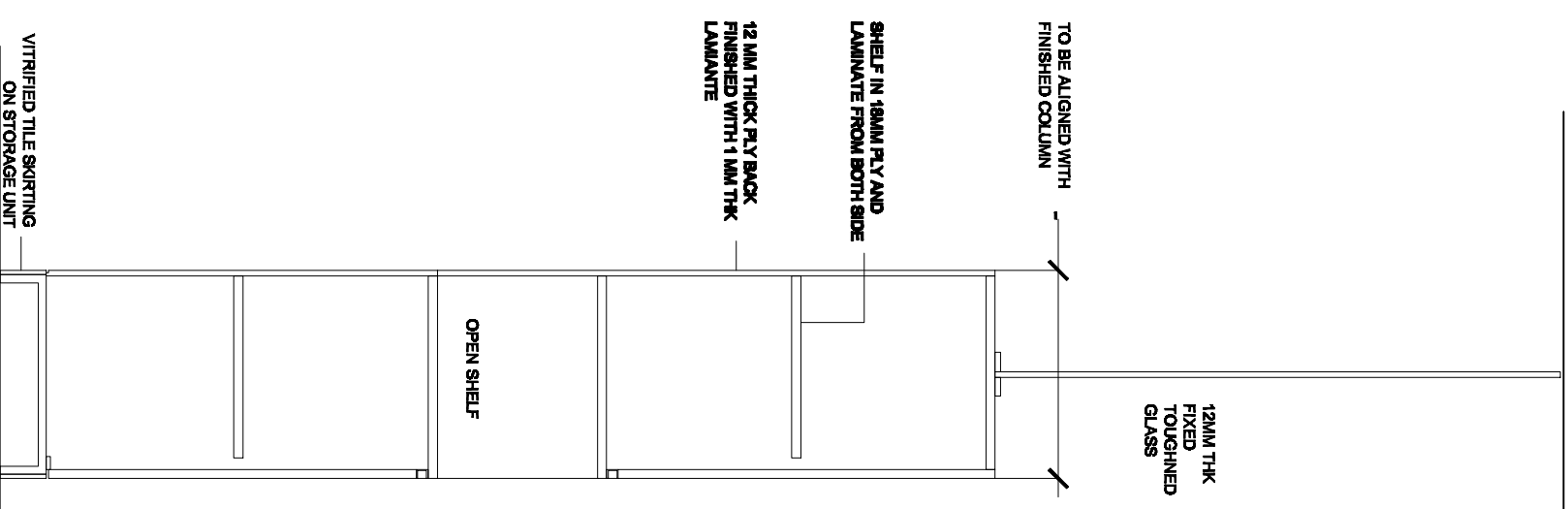


ELEVATION

TENDER DRAWING

STORAGE UNITS IN OFFICE CUBICLES
TYPICAL

CROSS SECTION



PROJECT

PROPOSED INTERIOR WORK AT CCCR BUILDING

CLIENT
INSTITUTE OF TROPICAL METEOROLOGY, PUNE

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ELECTRICAL : ABHIVANTA

DRAWING REFERENCES:

CONSULTANTS	DRG.NO.	REV.NO.	DATE
H.V.A.C.			
ELECTRICAL			

PROJECT NO: 027

DATE: TD 11

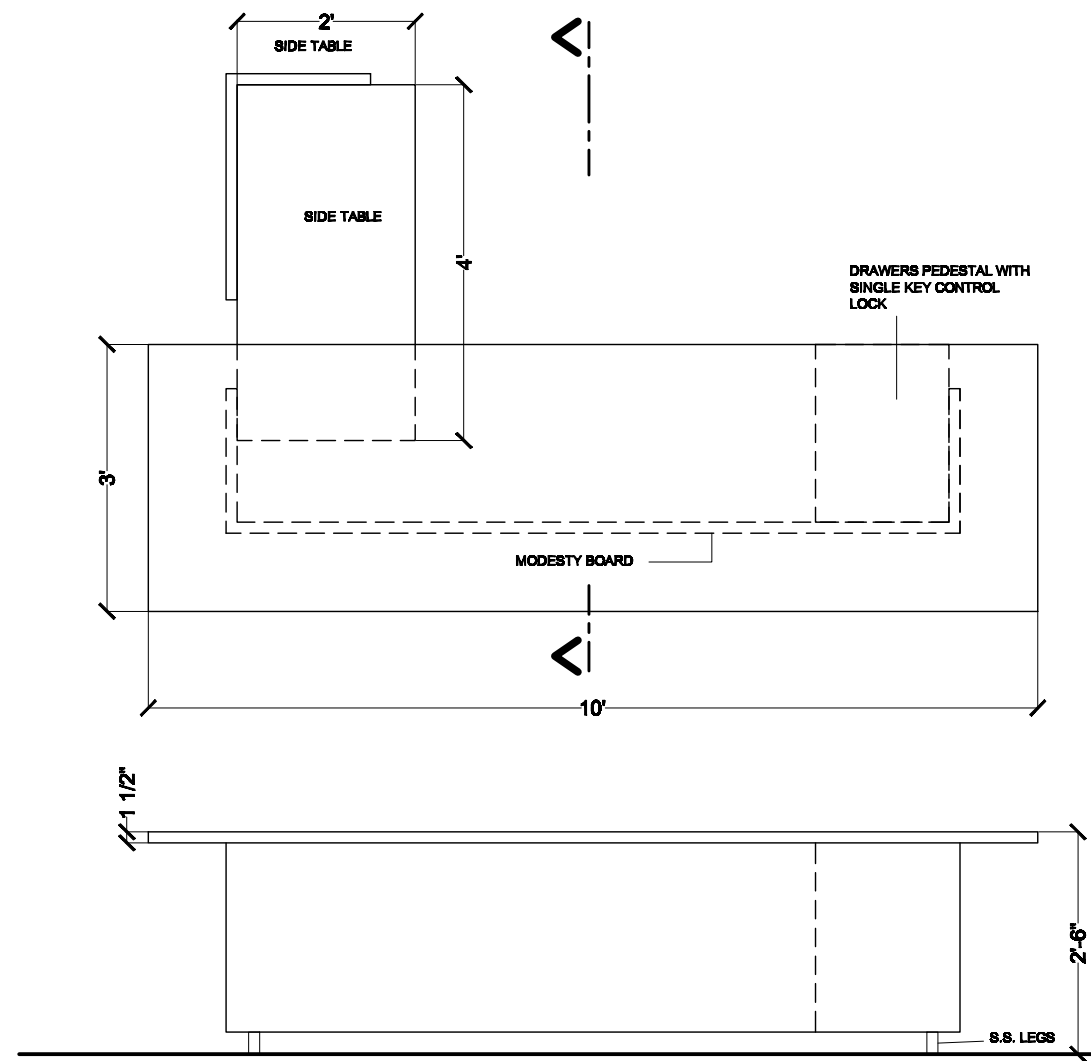
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DEL'T

CHK

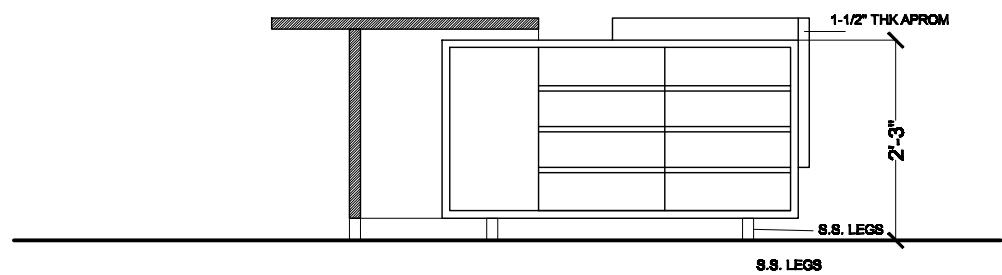
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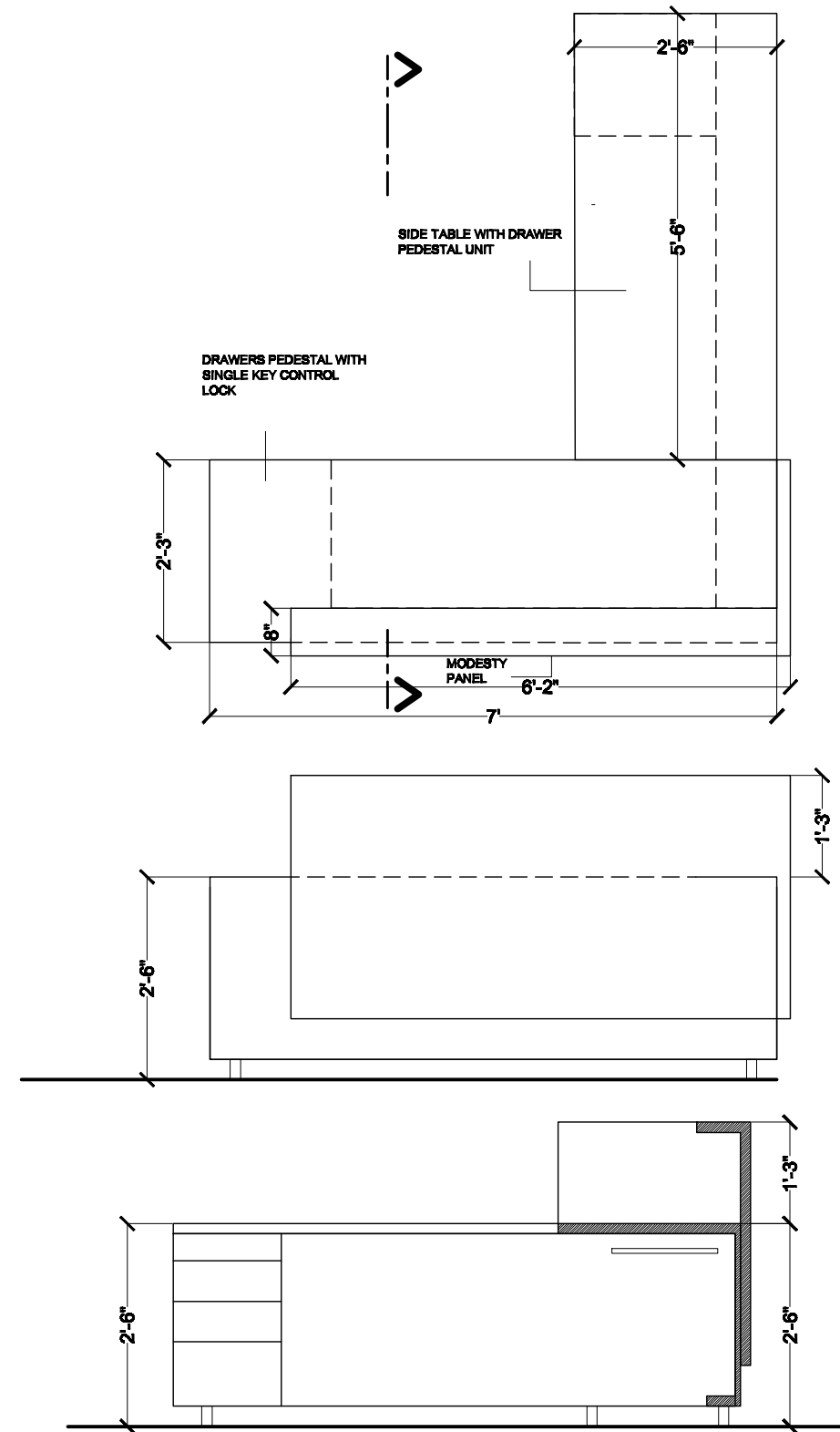
PLAN

ELEVATION



SECTION

DIRECTORS TABLE



SECRETARY'S TABLE

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CONSULTANTS	DRG.NO.	REV.NO.	DATE
H.V.A.C.			
ELECTRICAL			

TENDER DRAWINGS

FURNITURE DETAILS

PROJECT.NO:	027	DELT	vw
DRG.NO:	TD 12	CHK	-
SCALE	1" = 4'	DATE	10.03.12

PROJECT

PROPOSED INTERIOR WORK AT CCCR BUILDING

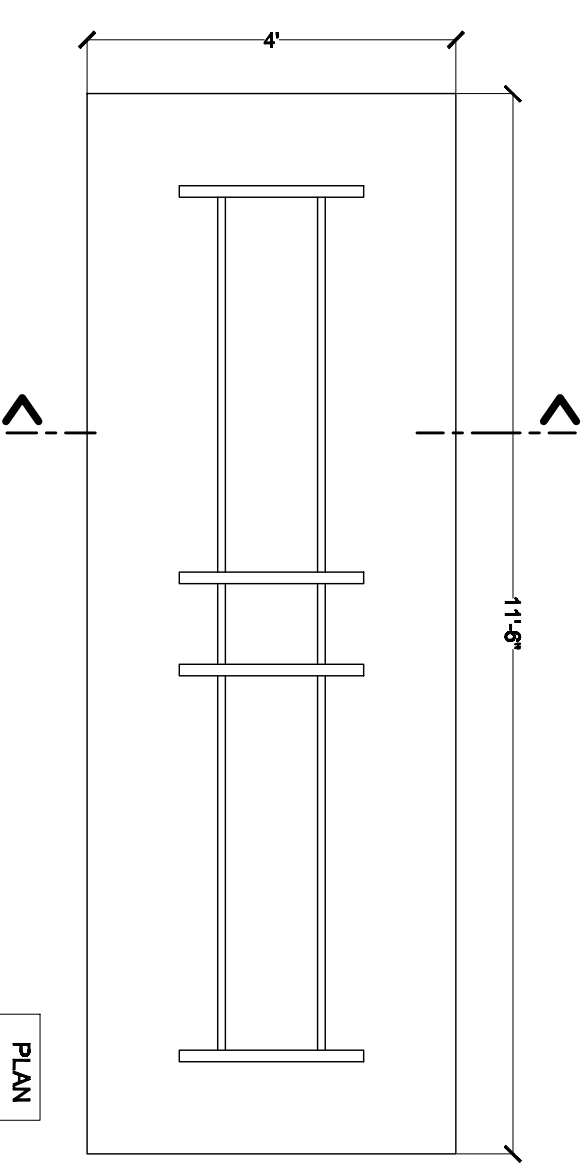
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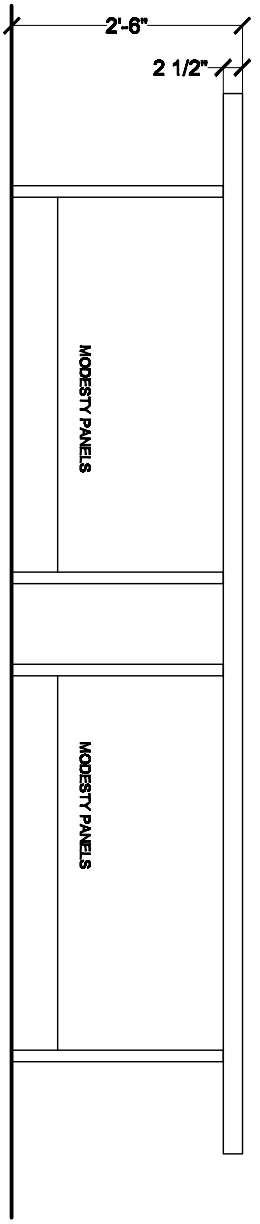
ARCHITECTS

MADHAV JOSHI AND ASSOCIATES
ARCHITECTS AND URBAN PLANNERS

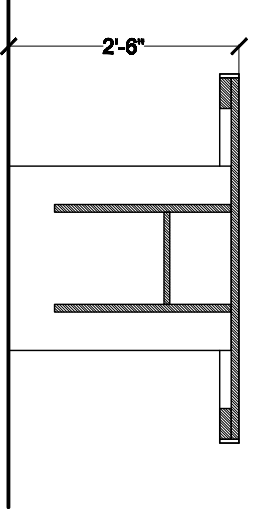
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PLAN

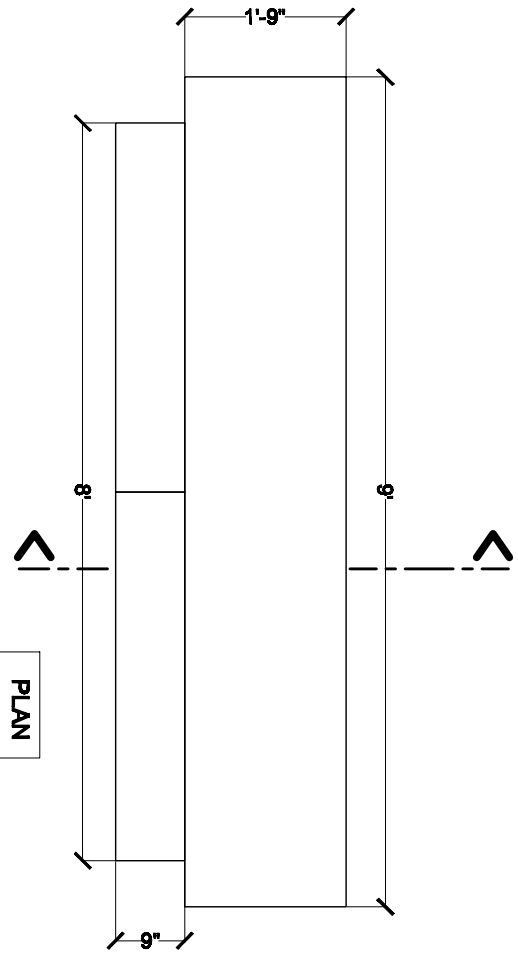


ELEVATION

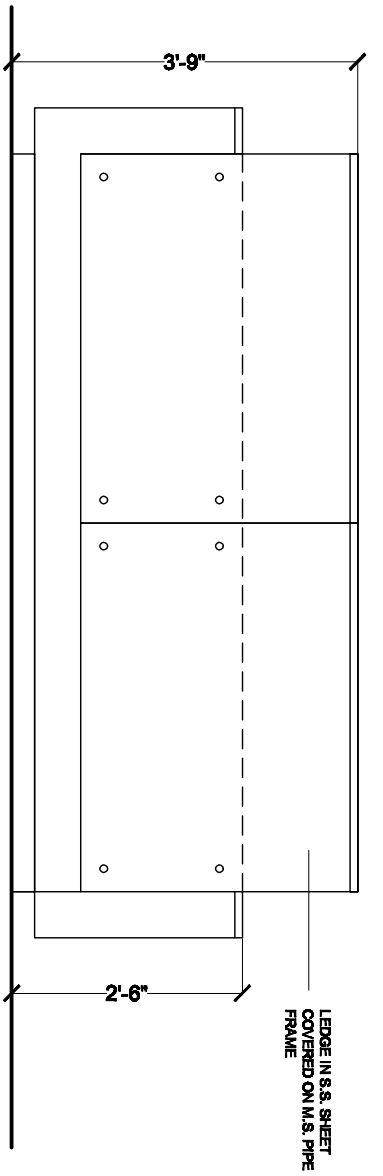


SECTION

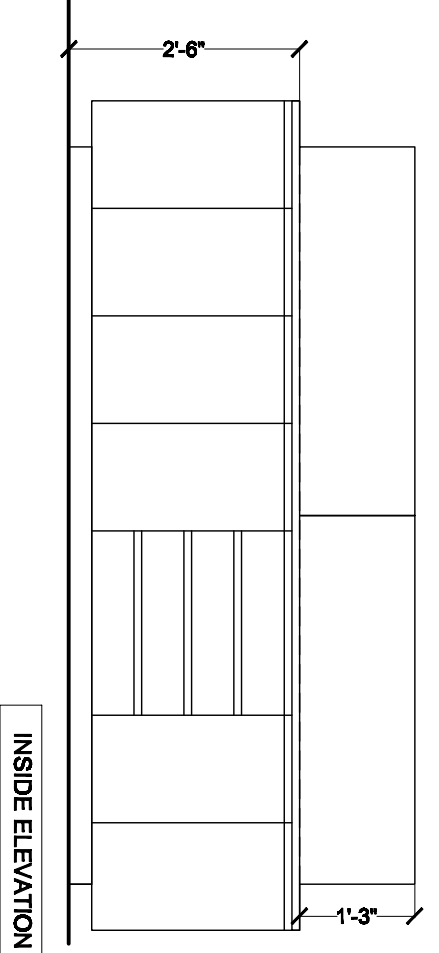
MEETING TABLE



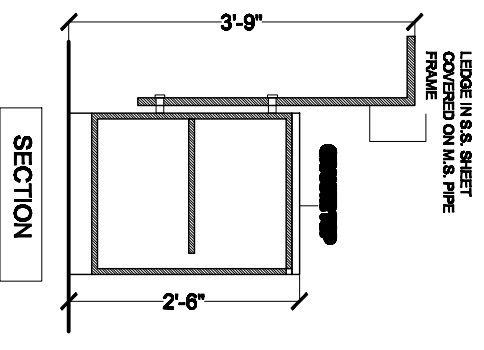
PLAN



ELEVATION



INSIDE ELEVATION



SECTION

SERVICE COUNTER

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 ELECTRICAL : ABHIVANTA

DRAWING REFERENCES:

CONSULTANTS	DRG. NO.	REV. NO.	DATE
H.V.A.C.			
ELECTRICAL			

TENDER DRAWINGS

FURNITURE DETAILS

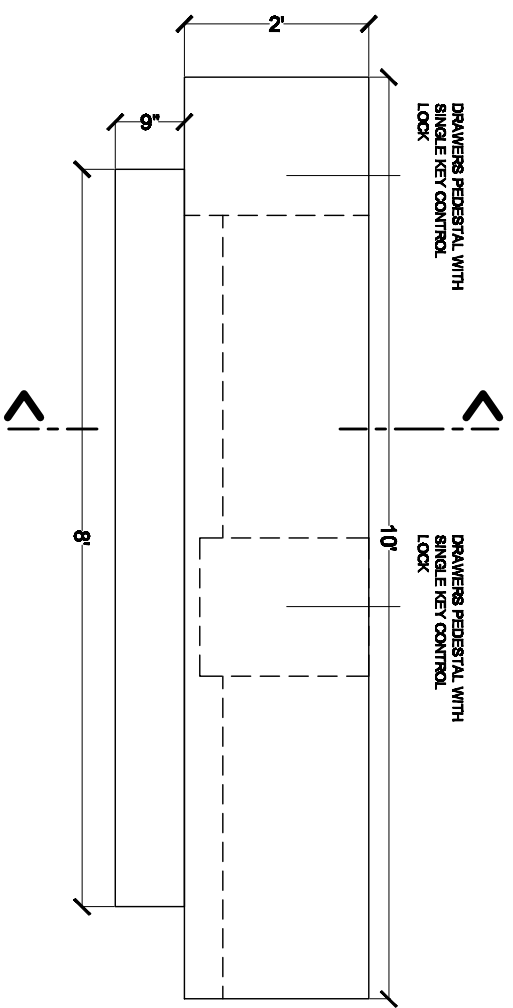
PROJECT NO.	DEL'T	W'
027		

DRG. NO.	CHK	DATE
TD 13		

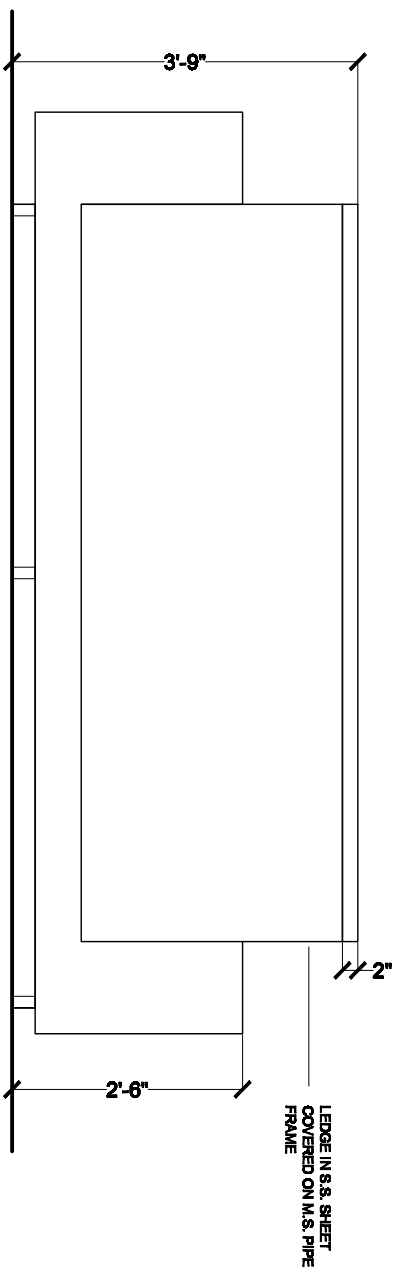
SCALE	DATE
1" = 4'	10.03.12

PROJECT PROPOSED INTERIOR WORK AT CCCR BUILDING

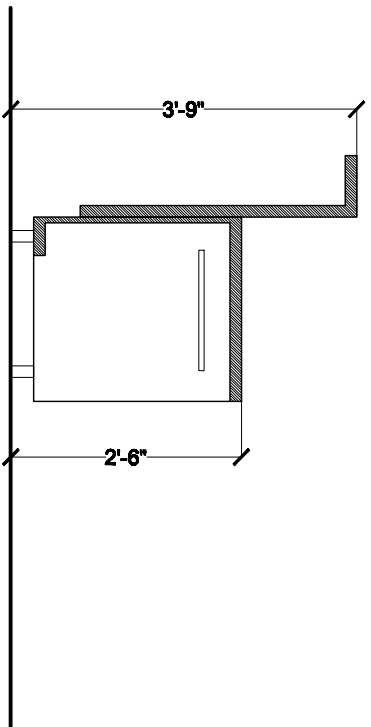
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 ARCHITECTS
 MADHAV JOSHI AND ASSOCIATES
 ARCHITECTS AND URBAN PLANNERS
 84/ATRS/ARTI, 82/MAVUR COLONY, KOTHRUD, PUNE- 411038.
 PH : + 91 20 25410557 / 58. E-mail : mpaarchitects@gmail.com



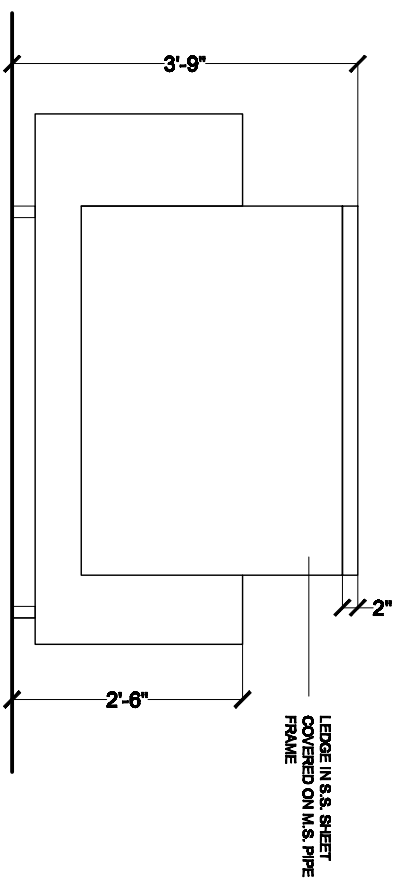
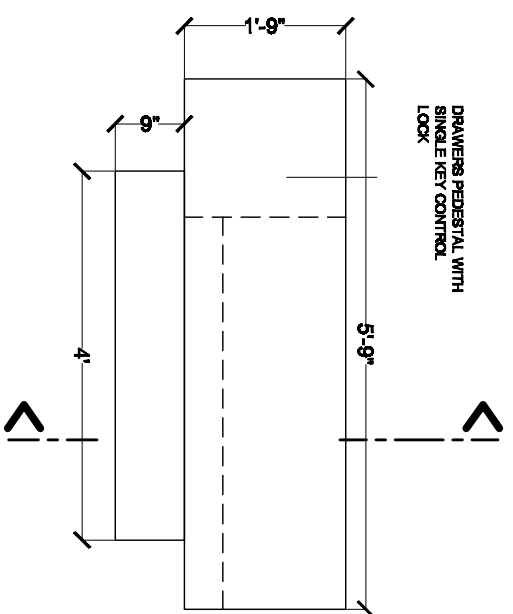
PLAN



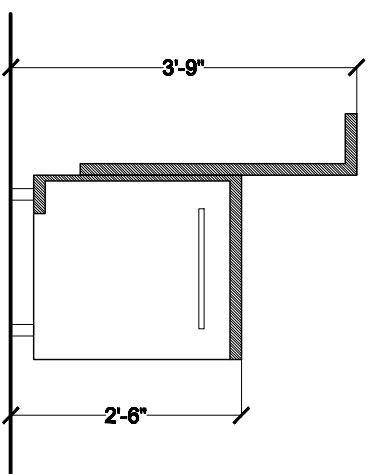
ELEVATION



SECTION



ELEVATION



SECTION

RECEPTION DESK 1

RECEPTION DESK 2

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CONSULTANTS	DRG. NO.	REV. NO.	DATE
H.V.A.C.			
ELECTRICAL			

TENDER DRAWINGS

PART ELEVATIONS & SECTIONS

PROJECT NO.	DEL'T	W'
027		
DRG. NO.	CHK	-
TD 14		
SCALE	DATE	10.03.12
1" = 4'		

PROJECT PROPOSED INTERIOR WORK AT CCCR BUILDING

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