

# NATIONAL INSTITUTE OF TECHNOLOGY

## TIRUCHIRAPPALLI – 15

Department of Chemistry

Web : [www.nitt.edu](http://www.nitt.edu)

Phone : 0431 - 2503631



# TENDER DOCUMENT

Tender Notification Nos.:

Dated: 17-02-2014

1. NITT/F. No.: UG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010 & 011/PLAN 2013-14/CHY
2. NITT/F. No.: PG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011 & 012/PLAN 2013-14/CHY

Name of the items to be procured : Furniture items

Quantity required : Island table - Size: 8400 L x 1500 W x 900 H mm (8 Nos.),  
Island table - Size: 3800 L x 1500 W x 900 H mm (14 Nos.),  
Island table - Size: 7500 L x 1500 W x 900 H mm (2 Nos.),  
Fume cupboard - 2000 L x 600 W x 2400 H mm (4 Nos.),  
Fume cupboard - 1500 L x 600 W x 2400 H mm (2 Nos.),  
Fume cupboard - 1725 L x 600 W x 2400 H mm (28 Nos.),  
Student belonging rack - floor mounted - 1200 L x 450 W x 1800 H mm (8 Nos.),  
Table mounted cupboard - 1000 L x 450 W x 1200 H mm (18 Nos.),  
Ground mounted cupboard - 900 L x 450 W x 1800 H mm (5 Nos.),  
Burette storage rack - bench mounted - 1050 L x 450 W x 1200 H mm (3 Nos.),  
Burette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),  
Pipette storage rack - bench mounted - 700 L x 450 W x 1200 H mm (3 Nos.),

Pipette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),  
Under bench storage cupboard - model A: ((16200+11800+16200)L x 600W x 800H mm) (2 Nos.); model B: ((13900+8500+16200)L x 600+750W x 900H) mm (1 No.),  
Under bench storage cupboard - model A: 12000L x 600W x 800H mm (14 Nos.); model B: 9000L x 600W x 800H mm (7 Nos.); model C: 10800L x 750W x 750H mm (7 Nos.),  
Anti vibration table - 900 L x 600 W x 750 H mm (1 No.),  
Laboratory stools (380 Nos.),  
Emergency shower unit (10 Nos.),  
Two way gas cocks - bench mounted (52 Nos.),  
Bunsen burner with rubber tube (104 Nos.).

EMD Amount : **Rs. 2,68,200/-**

Cost of the Tender Document : **Rs. 500/-**

Delivery : **Within eight weeks from the date of purchase order**

Last Date of submission of Tender : **18.03.2014 up to 3.00 pm**

Address for submission of Tender : The Director,  
National Institute of Technology- Tiruchirappalli,  
Tiruchirappalli – 620015, Tamilnadu, India  
**Kind ATTN to:** Dr. R. Karvembu  
Associate Professor and Head  
Department of Chemistry, NIT - Trichy  
Phone: 0431-2503631  
Email: kar@nitt.edu

Date of opening of technical bid : **18.03.2014 up to 3.30 pm**



# NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 15

## DEPARTMENT OF CHEMISTRY

**Tender Notification No.:**

**Dated: 17.02.2014**

### NOTICE INVITING TENDER

The National Institute of Technology, Tiruchirappalli (NITT) is an autonomous body under MHRD, GOI, imparting Technical Education and engaged in Research Activities. It is proposed to procure the following component for the Departmental academic/research activities.

Sealed bids under **two bid system** are invited for the following component subject to the following terms and conditions, from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time. The technical cover will be opened on the same day in the presence of bidders or their authorized agents who may choose to be present.

Name of the items to be procured : Furniture items

Quantity required : Island table - Size: 8400 L x 1500 W x 900 H mm (8 Nos.),  
Island table - Size: 3800 L x 1500 W x 900 H mm (14 Nos.),  
Island table - Size: 7500 L x 1500 W x 900 H mm (2 Nos.),  
Fume cupboard - 2000 L x 600 W x 2400 H mm (4 Nos.),  
Fume cupboard - 1500 L x 600 W x 2400 H mm (2 Nos.),  
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Student belonging rack - floor mounted - 1200 L x 450 W x 1800 H mm (8 Nos.),  
Table mounted cupboard - 1000 L x 450 W x 1200 H mm (18 Nos.),  
Ground mounted cupboard - 900 L x 450 W x 1800 H mm (5 Nos.),  
Burette storage rack - bench mounted - 1050 L x 450 W x 1200 H mm (3 Nos.),  
Burette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),  
Pipette storage rack - bench mounted - 700 L x 450 W x 1200 H mm (3 Nos.),  
Pipette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),  
Under bench storage cupboard - model A: ((16200+11800+16200)L x 600W x 800H mm) (2 Nos.); model B: ((13900+8500+16200)L x 600+750W x 900H) mm (1 No.),  
Under bench storage cupboard - model A: 12000L x 600W x 800H mm (14 Nos.); model B: 9000L x 600W x 800H mm (7 Nos.); model C: 10800L x 750W x 750H mm (7 Nos.),  
Anti vibration table - 900 L x 600 W x 750 H mm (1 No.),  
Laboratory stools (380 Nos.),  
Emergency shower unit (10 Nos.),  
Two way gas cocks - bench mounted (52 Nos.),  
Bunsen burner with rubber tube (104 Nos.).

EMD : Rs. 2,68,200/-  
Cost of the Tender Document : Rs. 500/-  
Time for completion of supply after placing purchase order : **Within 8 weeks from the date of purchase order**  
Last Date of submission of Tender : **18.03.2014 up to 3.00 pm**  
Address for submission of Tender : The Director,  
National Institute of Technology- Tiruchirappalli,  
Tiruchirappalli – 620015, Tamilnadu, India  
**Kind ATTN to:** Dr. R. Karvembu  
Associate Professor and Head  
Department of Chemistry, NIT - Trichy  
Phone: 0431-2503631  
Email: kar@nitt.edu

***Place, Date and time of opening of bid*** :

Date: **18.03.2014**

Time: **3.30 pm**

Venue: **NITT Stores**

**Note :** The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong addressee.

**INSTRUCTIONS TO BIDDERS**

1. This document set contains the following:
  - a) Terms and conditions of the Tender
  - b) Details of the Firm offering this Quote
  - c) Technical Compliance Form
  - d) Quotation form (Price Bid)
  - e) Currency Form (quoted on behalf of the foreign suppliers)
  - f) NIT-T's check list copy
2. The bidder's copy is for your future records. Please fill in and return only NIT-T's copy.
3. The bidder should give details of their technical soundness and provide list of customers of previous supply of similar items to Universities, Institutes or Government Departments/Undertakings/public sectors with contact details. The details of the agency/profile should be furnished along with the copy of all related documents.
4. Read through the terms and conditions given and affix your signature and seal if you find them acceptable. Any deviations may be recorded. Read carefully list of specifications that we have enclosed.
5. Fill in the questionnaire regarding the Firm.
6. The downloaded documents '**Technical Compliance Form**' and '**Quotation Form (Price Bid)**' should be **TYPE WRITTEN USING CAPITAL LETTERS ONLY**. At the time of filling the "**Quotation Form (Price Bid)**" make sure that you have not missed anything. Specify the model number & specification for each item. The form should be filled item-wise. Do not leave blank fields. If you are not quoting for a specific item, you should specify "**NOT QUOTING**".
7. **Do not use** ambiguous terms like "**yes**", "**complied**" or "**available**". Specifically mention the matching specification of the product offered by you. Make sure that you have affixed your signature with date and seal on all the documents.
8. Please send the tenders in a sealed envelope superscribed as "**QUOTATIONS AGAINST TENDER NOTIFICATION NO: 1. NITT/F. No.: UG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010 & 011/PLAN 2013-14/CHY 2. NITT/F. No.: PG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011 & 012/PLAN 2013-14/CHY**" so as to reach "The Director, National Institute of Technology, Tiruchirappalli - 620 015, India" on or before **18.03.2014 at 3.00 p.m. along with a Softcopy of the Technical Compliance form (along with cover-2) and Quotation Forms (along with cover-3) in MS-Excel file format in a CD/DVD or USB drive.**
9. For any further clarifications, contact by E-Mail: kar@nitt.edu or by written request to "The Registrar, National Institute of Technology, Tiruchirappalli - 620 015, India"
10. Pre-bid conference will be held on **24.02.2014 at 3.00 p.m.**

**Last Date for receipt of tender at NIT-T : 18.03.2014, 3.00 p.m.**

**Opening Date for technical bid : 18.03.2014, 3.30 p.m.**

<b>CHECKLIST TO BE FILLED IN BY BIDDER</b>	
List of documents to be enclosed	Completed & Signed
1. Terms and Conditions form	YES / NO
2. Details of the Firm offering this Quote	YES / NO
3. NIT-T's Quotation form (Technical & Price Bid)	YES / NO
4. Currency Form(quoted on behalf of the foreign suppliers)	YES / NO
5. Other technical specifications & pamphlets	YES / NO

- Note:** 1. "Cover" should contain the following:
- a. Form of "**Acceptance of Terms and Conditions**".
  - b. Form of "**Firm details**"
  - c. Pamphlets, if any (in a separate sealed cover)
  - d. Quotation Form (Technical, Price Bid and Currency Form)

**Please retain this page with you for your future reference.**

**SECTION : 1 – TWO BID TENDER**

**Cover 1: EMD and Tender cost**

(should be superscribed as 'EMD and tender cost cover' duly indicating the Tender reference No. and the due date of opening)

Earnest Money Deposit (EMD) and tender cost are to be submitted by way of Demand Draft/FDR drawn on any Nationalized bank in India in favor of "The Director, NIT, Trichy" payable at Trichy. The bids submitted without EMD or tender cost will be treated as non-responsive and will be rejected. EMD shall bear no interest.

**Cover 2: Technical Bid**

(should be superscribed as 'Technical Bid' duly indicating the Tender reference No. and the due date of opening)

Should contain:

- a. Technical pamphlets
- b. Detailed technical specification
- c. Copy of license certificate for manufacture/supply of the item\*
- d. Income Tax PAN number & TIN number.\*
- e. Last three years balance sheet approved by the CA and the IT clearance certificate.\*
- f. Warranty period offered for the tendered item to be specified. If the warranty period is not conforming with the schedule of requirements given in section 3 of the Tender document, the bid is liable to be treated as non-responsive and will be rejected.
- g. Duly filled up technical questionnaire, if any
- h. Duly filled up deviation schedules to technical specifications, if any
- i. Copy of supply orders completed during the last three years

\* Appropriately pertaining to the country of origin.

**Cover 3: Price Bid**

(should be superscribed as 'Price Bid' duly indicating the Tender reference No. and the due date of opening)

Should contain:

- a. Price bid as per the format in Section-4 of the tender document
- b. Break-up price as per the format in Annexure-A

**Note:**

- a. If the prices are revealed in cover 1 or in cover 2, the offer will be summarily rejected.
- b. Each Cover shall be sent in a double sealed cover. The inner covers (Cover 1, Cover 2 and Cover 3) should be sealed individually with the Sellers's distinctive seal and superscribed with the tender reference No. and due date of opening. All inner covers shall be placed in a common outer cover which shall also be sealed with seller's distinctive seal and superscribed with the tender reference No. and due date of opening.
- c. Mention "Kind Attention:....., and submit at the address given in the Notice Inviting Tender.
- d. Cover 1 & 2 will be opened on the scheduled date and time mentioned in the tender enquiry.
- e. Cover 3 of the technically and commercially suitable offers alone will be opened on a date which will be intimated to the qualified bidders.

**SECTION : 2 – TERMS AND CONDITIONS FORM**

**IMPORTANT: READ THE FOLLOWING TERMS AND CONDITIONS AND  
SIGN THE ACCEPTANCE CLAUSE FOLLOWING IT**

1. The offers should be addressed to “The Director, National Institute of Technology, Tiruchirappalli 620015, India” and should be sent in a sealed envelope superscribed BID **AGAINST TENDER NOTIFICATION No.:** 1. NITT/F. No.: UG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010 & 011/PLAN 2013-14/CHY 2. NITT/F. No.: PG-MOD 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011 & 012/PLAN 2013-14/CHY so as to reach us **on or before 18.03.2014 at 3.00 p.m.**
2. Each offer should be sent in a sealed cover with the tender documents. Tenders received through email or FAX will not be considered. **Softcopy of the Technical Compliance form and Quotation Forms should be submitted along with the tender in MS-Excel file format in a CD/DVD or USB drive. However, if there is any dispute between Hard copy and Soft copy, Hard copy will be taken.**
3. The tenders will be opened on **18.03.2014 at 3.30 p.m.** in the presence of the vendors present with authorization letter from the respective companies / firms. Suppliers intending to attend the tender opening should intimate us in advance.
4. Full technical specifications and pamphlets should be sent along with the tenders. **Offers without proper technical specifications will be rejected.**
5. The rate quoted should be on unit basis excluding Taxes. Taxes and other charges should be quoted separately, considering exemptions if any.
6. All offers should indicate unit price (excluding taxes and duties applicable), Taxes and other charges should be mentioned separately, if any. Additional charges for packing, forwarding, freight, insurance etc., if any, should be clearly mentioned. Clearance at Customs will be arranged by us.
7. NIT-T is paying concessional Customs & Excise duty under Government of India Notification No.51/96for Central Customs and 10/97 for Central Excise Duty vide Certificate No.TU/V/RG-CDE(183)/2011 dt.10.10.11. Currently the purchaser is paying 5% Basic Customs Duty, 2% Educational Cess on Basic Customs Duty, 1% Higher Education Cess on Educational Cess, and 4% Import Additional Duty. **This institute is exempted from payment of service tax as per Sl.no. 9 of Government notification No25/2012-ST dated 20<sup>th</sup> june, 2012.**The Institute is not authorized to issue C and D forms of Sales tax certificate.
8. In case the offered items are to be imported, the rates should be quoted in foreign currency on C.I.F. Chennai Airport basis, and it should include the Freight up to Chennai airport and the insurance cover should be up to National Institute of Technology, Tiruchirappalli. NIT-T shall pay Customs duty if any.
9. If the price quoted is in foreign currency and if the order value is more than US\$10,000 and requested by the bidder then 100% payment will be made through **Letter of Credit (LC) at sight on acceptance. The bank charges outside India should be borne by the Supplier / Beneficiary. Part shipment not allowed.**
10. If the price quoted is in Indian Rupees, then 100% payment will be made only after installation and commissioning. **No advance payment will be made.**
11. No revision of the price bid will be allowed once the price bids are opened. In case of foreign currency, the agency should mention the % of currency fluctuations they can bear.
12. No increase in price will be allowed after our firm orders are placed.
13. **Payment of excise duty and sales tax / VAT (on ultimate products)** as applicable on the closing date of tender will be to the supplier’s / contractor’s account. Any statutory variation (both plus and minus) in the rate of excise duty/sales tax/VAT after closing date of tender/revised price bid but before the expiry of the contractual delivery / completion period will be to the account of the office.

The bidder(s) should indicate, in their bid, the amount with exact rate of the Excise and Sales tax/VAT on ultimate finished product, as applicable at tendering stage, separately in the bid. In case the above information subsequently proves wrong, incorrect or misleading (a) this Institute will have no liability to reimburse the excess in the difference in rates of the item under which the duty/tax assessed finally (b) this Institute will have the right to recover the difference in case the rate of duty / tax finally assessed is on the lower side. Any increase in excise duty, sales tax / VAT during extended period of the contract / supply order will be to supplier's / contractor's account where such extension in delivery of the materials/completion of the project was on the request of supplier / contractor. However, any decrease in excise duty/sales tax/ VAT during extended period of the contract / supply order, will be to the account of this Institute.

14. **This institute is exempted from payment of service tax as per Sl.no. 9 of Government notification No25/2012-ST dated 20<sup>th</sup> june, 2012. The tenderer should verify the excise duty exemption certificates of this institution and service tax rules before submission of the Bid. It will be assumed on the submission of bid that excise duty exemption will be provided and no other conditions after the issue of purchase order will be accepted. No service tax will be paid by this institute.**
15. The warranty period should be clearly mentioned. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned.
16. Quote should come from authorized dealer or distributor or reseller for each of the product quoted. An authorization letter should accompany your quote for each product quoted; otherwise it may lead to rejection.
17. The delivery period and other terms should be clearly mentioned.
18. **Eligibility:** Quotation from registered firms/company's / manufacturer under TNGST/CST / other statutory bodies alone will be considered. Any Manufacturer / Supplier / Dealer who has been declared ineligible by World Bank/Government of India shall not be eligible to participate in this bid. Any fraudulent practices including concealing of facts at the time of submission of bid and there after shall lead to disqualification. List of beneficiaries especially from Educational Institutions / R & D Institutions should also be enclosed with the quotations. **Bidder pre qualification criteria is mentioned in section 3.**
19. Complete user, technical and service documentation and spare parts catalogue are to be provided along with the supply of the item.
20. The vendors are informed that they should not call us over phone or contact us in person. All clarifications can be obtained through E-Mail/FAX/Post. Vendors shall not make attempts to establish unsolicited and un-authorized contact with us after the opening of the offers and prior to the notification of the award. Any attempt by any vendor to bring to bear extraneous pressures on us shall be sufficient reason to disqualify the vendor.
21. Delay / loss in postal transit or due to other reasons will not be NIT-T's responsibility.
22. We are not responsible for accidental opening of the covers that are not properly superscribed and sealed before the time scheduled for opening.
23. The tender should be made only on the FORM which is available in our website, otherwise it shall lead to rejection. The FORM should be duly filled up (preferably **TYPE WRITTEN IN CAPITAL LETTERS**) and should clearly mention the features offered by the bidder against each specification.
24. Authorized signatory should sign on all the pages. Bids without authorized signatures or seal of the firm will be rejected.
25. The manufacturers of the quoted make of the product must be of National / International repute and having ISO /BIS certificate.
26. **Liquidated damages:** If the bidder/supplier, after accepting the Purchase Order, fails to deliver any or all of the Goods within the period specified in the Order, NIT-T shall, without prejudice to its other remedies under the Rules of Purchase, proceed to cancel the order or agree to accept a delayed delivery on the condition of payment of liquidated damages by the bidder / supplier a sum equivalent to 0.50% of the total cost as indicated in the Purchase Order (which will be deemed as agreed price) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a



maximum of 5% of the total cost. Once the maximum is reached NIT-T may proceed on its own to consider the termination / cancellation of the order.

27. **The vendors are informed that they should sign a stamp paper agreement with us, for Warranty, AMC, etc. before placing the final purchase order as per our terms & conditions and 5% of purchase order value in the form of bank guarantee towards performance security. The bank guarantee will be returned to the supplier after the successful completion of supply, installation, and the warranty period.**
28. Failure to comply with all the terms and conditions mentioned herein would result in the tender being summarily rejected.
29. Vendors are informed that once the companies are shortlisted based on the technical specification, only then the price bids of the firms that meet NIT-T's Technical specification / requirements would be compared.
30. The order will be based on the actual requirement at the time of ordering, optional items may also be ordered based on the actual requirements at the time of ordering. Not quoting for this may result in disqualification.
31. NIT-T reserves the right to modify or alter the specifications after short listing of tenderers.
32. NIT-T reserves the right to change the order quantity or split the orders among multiple vendors without assigning any reason(s) whatsoever.
33. NIT-T reserves the right to reject any or all the tenders without assigning any reasons whatsoever.
34. NIT-T reserves the right to purchase decreased number of quantity of the item to be purchased.
35. The agencies should submit their rate as per the format given in Section 4 of the Notice Inviting Tender in this cover. All the pages of the bid should be signed affixing the seal. All corrections and overwriting should be initialed.
36. The tender will be acceptable only from the manufacturers or its authorized supplier.
37. The bid shall be in the format of price schedule given in Section 4. The contract form as per format given in section 5 shall be submitted. Incomplete or conditional tender will be rejected.
38. Details of quantity and the specifications are mentioned in Section 3 appended to this Notice Inviting Tender.
39. The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
40. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.
41. In case of dispute, the matter will be subject to Tiruchirappalli, Tamil Nadu Jurisdiction only.

**Release of EMD:** The EMD will be released after receipt of performance security from successful bidder.

**Validity of bids:** The rate quote should be valid for a minimum of 120 days. No claim for escalation of rate will be considered after opening the Tender.

**Imports:** In case, goods are to be imported, the Indian agent should furnish authorization certificate by the principles abroad for submission of the bid in response to this Notice Inviting Tender.

**Clarification of Tender Document:** A prospective bidder requiring any clarification of the Tender document may communicate to the contact person given in this notice inviting tender.

**Amendment of tender document:** At any time prior to the last date of receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the Tender document by an amendment in the NIT-T website only.

***The Institute may at its own discretion extend the last date for the receipt of bids.***

The bids shall be written in English language and any information printed in other language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.

The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids without assigning any reasons therefor. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.

**The bidder should give the following declaration while submitting the Tender.**

**ACCEPTANCE**

We accept the above terms and conditions and shall comply with them strictly.

**NAME OF THE VENDOR:**

**ADDRESS :**

**Signature and seal**

**“DETAILS OF THE FIRM OFFERING THIS QUOTE”**  
**(Write or print or type in block letters)**

1. Name of the firm: \_\_\_\_\_
2. Date of incorporation: \_\_\_\_\_
3. Nature of the company (tick one): Government / Public / Private Company / Partnership / Proprietorship
4. Specify the number of years in this line of activity by the Company: ..
5. Quantity of sales in the last three years for the “.....” (same model that you have quoted):

2010-2011	2011-2012	2012-2013

6. Turnover in the last three years (Lakh Indian Rupees):

2010-2011	2011-2012	2012-2013

7. Provide the postal address, telephone & fax numbers, and email address of the nearest service center.
8. Number of service engineers in the above location trained on the product quoted along with their educational qualification, certification and designation (applicable only for instruments):
9. Assured response time for service calls in hours:
10. Delivery period from the date an official purchase order placed (in weeks):
11. Enclose the list of customers to whom you have supplied “.....” during the last 3 years ending 31/03/2013 with full postal address and name of the contact person with phone, FAX numbers, and E-Mail id. Certificate regarding satisfactory performance of the “.....” from the minimum three end users should be furnished.
12. Are you the authorized dealer or distributor or reseller for the products quoted?
13. Have you supplied “.....” to National Institute of Technology, Tiruchirappalli in the last 3 years? If yes, specify the quantity supplied in the last 3 years and last PO reference:
14. Was there any elapse or delay in supplying the goods ordered or any service related issue during the warranty period for the products ordered by NIT-T with your firm? If yes, provide details.
15. On Manufacturer’s Side to whom NITT have to contact in case of delayed in supply and other issues committed by the authorized dealer / distributor / reseller :

Contact Person Name :	
Address :	
E-mail ID :	Telephone / Cell Phone :

**DECLARATION**

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to be tampered/modified, I/we understand that my/our tender will be summarily rejected and full Earnest Money Deposit (EMD) will be forfeited and I/we am/are liable to be banned from doing business with NIT, Trichy and /or prosecuted.

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....

.....

.....

**Place :**

**Date :**

**Seal of the Bidder's Firm**

<b>SECTION : 3 – SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS</b>
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**Specification for Furniture items**

Name of the Component to be procured : **Furniture items**

Specifications :

**1. ISLAND TABLE (Size : 8400 L x 1500 W x 900 H mm), QUANTITY: 8 Nos.**

- |                         |  |
|-------------------------|--|
| <b>Car cass</b>         | <p>: 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack.</p> <p>: Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).</p> <p>: Edges should be sealed with 2 mm thick (Rehau or equivalent) PVC edge banding and trimmed for aesthetic appeal.</p>                                    |
| <b>Shutters</b>         | <p>: The shutters &amp; drawer fronts should have (Rehau or equivalent) PVC thermo foil face E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation &amp; scratches.</p> <p>: The shutters and drawer fronts should have half round post form (profile) finish.</p>  |
| <b>Top drawers</b>      | <p>: Drawers should be fitted on telescopic drawer slides (Hettich or Godrej or equivalent) which are sturdy enough.</p>   |
| <b>Bottom cupboard</b>  | <p>: Should consist of removable partition lined with fiber glass reinforced polyester resin of 1 mm thickness for enhanced chemical resistance.</p> <p>: The shutters should be mounted to the modules by hinges (CED coated) which are openable at 95 degrees and self closing nature (Hettich or Hafele or equivalent). Shutters should have sound deadening plastic bumpers to minimize banging noise while closing.</p> |
| <b>Work top</b>         | <p>: 19 mm (<math>\pm 1</math> mm) thick Jet Black granite with edges moulded and groove at bottom to avoid spillage on modular storages. The granite work top should have 50 mm overhang in front and sides.</p>  |
| <b>Backing material</b> | <p>: The granite should be backed by 6 mm thick marine grade plywood or 6 mm thick neoprene backing to avoid direct load on under bench cabinets.</p>  |

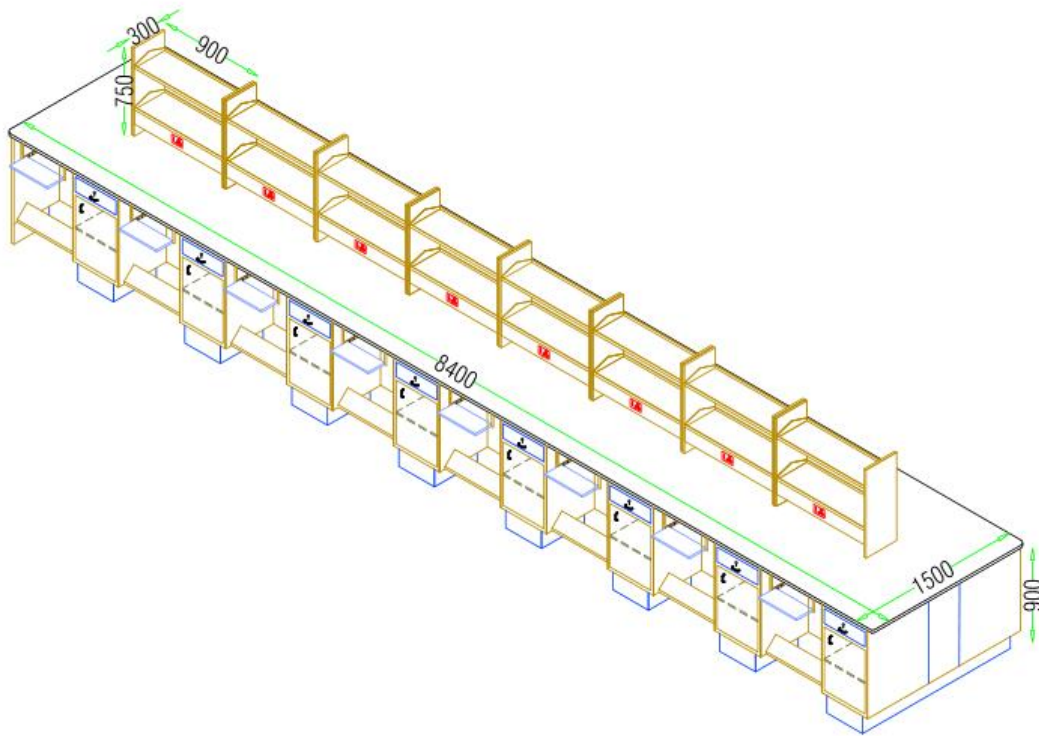
**Amenities**

: 8 numbers of 2 tier reagent racks made of 16 mm thick marine grade ply wood with epoxy filled post form finish (profiling-full round). The reagent racks should have 2 tier arrangement and should be fixed on the worktop using adhesive. The bottom tier should have a clear space of 100 mm from the worktop.

: 16 numbers of sliding writing pads (400 x 350 mm) made up of marine plywood with 16 mm thick should be provided. The plywood should be chemically treated and should have post formed finish (full round profile).

**Electrical receptacles**

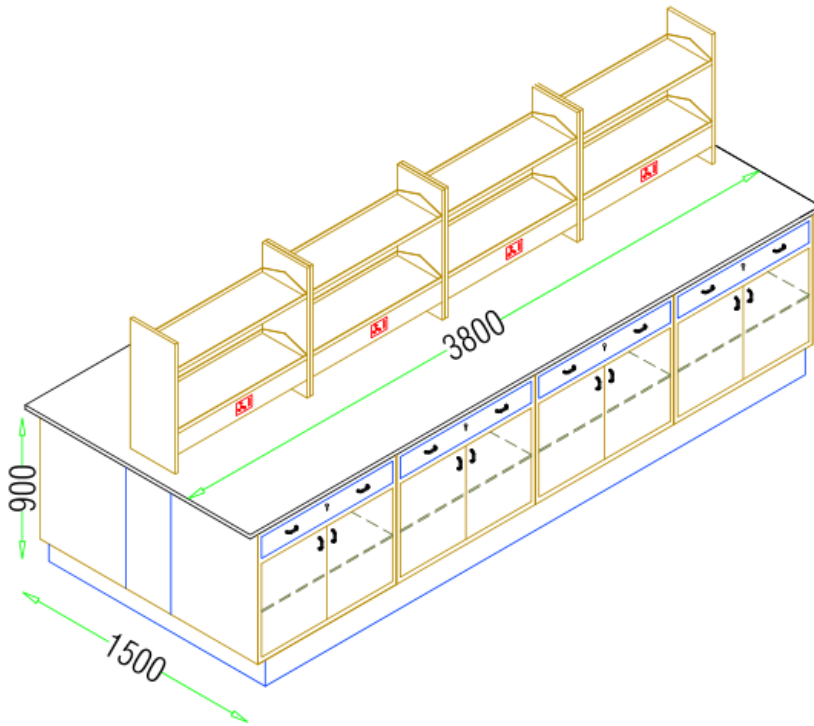
: 16 numbers of 15/5 amps 3 pin electrical socket cum switch (Anchor or MK or equivalent) with indicator light should be provided.



## **2. ISLAND TABLE (Size : 3800 L x 1500 W x 900 H mm), QUANTITY: 14 Nos.**

- Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack.
- : Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).
- : Edges should be sealed with 2 mm thick (Rehau or equivalent) PVC edge banding and trimmed for aesthetic appeal.
- Shutters** : The shutters & drawer fronts should have (Rehau or equivalent) PVC thermo foil face E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.
- : The shutters and drawer fronts should have half round post form (profile) finish.
- Top drawers** : Drawers should be fitted on telescopic drawer slides (Hettich or Godrej or equivalent) which are sturdy enough.
- Bottom cupboard** : Should consist of removable partition lined with fiber glass reinforced polyester resin of 1 mm thickness for enhanced chemical resistance.
- : The shutters should be mounted to the modules by hinges (CED coated) which are openable at 95 degrees and self closing nature (Hettich or Hafele or equivalent). Shutters should have sound deadening plastic bumpers to minimize banging noise while closing.
- Work top** : 19 mm ( $\pm 1$  mm) thick Jet Black granite with edges moulded and groove at bottom to avoid spillage on modular storages. The granite work top should have 50 mm overhang in front and sides.
- Backing material** : The granite should be backed by 6 mm thick marine grade plywood or 6 mm thick neoprene backing to avoid direct load on under bench cabinets.
- Amenities** : 4 numbers of 2 tier reagent racks made of 16 mm thick marine grade ply wood with epoxy filled post form finish (profiling-full round). The reagent racks should have 2 tier arrangement and should be fixed on the worktop using adhesive. The bottom tier should have a clear space of 100 mm from the worktop.
- : 8 numbers of sliding writing pads (400 x 350 mm) made up of marine plywood with 16 mm thick should be provided. The plywood should be chemically treated and should have post formed finish (full round profile).

**Electrical receptacles** : 8 numbers of 15/5 amps 3 pin electrical socket cum switch (Anchor or MK or equivalent) with indicator light should be provided.



**3. ISLAND TABLE (Size : 7500 L x 1500 W x 900 H mm), QUANTITY: 2 Nos.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack.

: Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

: Edges should be sealed with 2 mm thick (Rehau or equivalent) PVC edge banding and trimmed for aesthetic appeal.

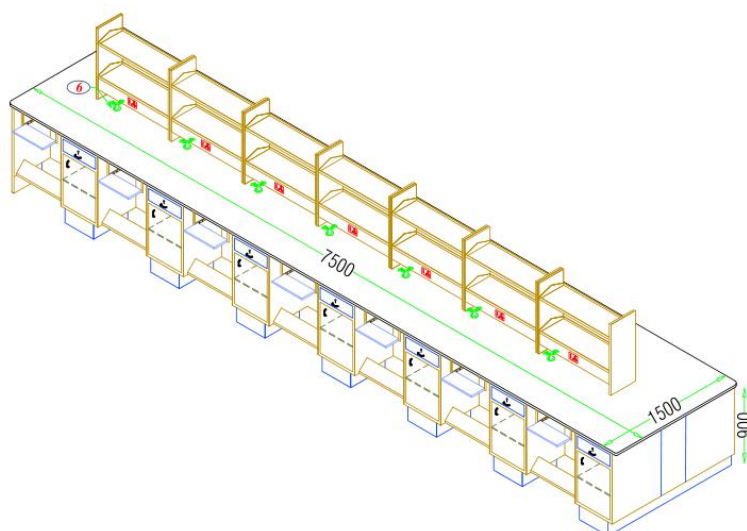
**Shutters** : The shutters & drawer fronts should have (Rehau or equivalent) PVC thermo foil face E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

: The shutters and drawer fronts should have half round post form (profile) finish.

**Top drawers** : Drawers should be fitted on telescopic drawer slides (Hettich or Godrej or equivalent) which are sturdy enough.



- Bottom cupboard** : Should consist of removable partition lined with fiber glass reinforced polyester resin of 1 mm thickness for enhanced chemical resistance.
- : The shutters should be mounted to the modules by hinges (CED coated) which are openable at 95 degrees and self closing nature (Hettich or Hafele or equivalent). Shutters should have sound deadening plastic bumpers to minimize banging noise while closing.
- Work top** : 19 mm ( $\pm 1$  mm) thick Jet Black granite with edges moulded and groove at bottom to avoid spillage on modular storages. The granite work top should have 50 mm overhang in front and sides.
- Backing material** : The granite should be backed by 6 mm thick marine grade plywood or 6 mm thick neoprene backing to avoid direct load on under bench cabinets.
- Amenities** : 7 numbers of 2 tier reagent racks made of 16 mm thick marine grade ply wood with epoxy filled post form finish (profiling-full round). The reagent racks should have 2 tier arrangement and should be fixed on the worktop using adhesive. The bottom tier should have a clear space of 100 mm from the worktop.
- : 14 numbers of sliding writing pads (400 x 350 mm) made up of marine plywood with 16 mm thick should be provided. The plywood should be chemically treated and should have post formed finish (full round profile).
- Electrical receptacles** : 14 numbers of 15/5 amps 3 pin electrical socket cum switch (Anchor or MK or equivalent) with indicator light should be provided.



#### **4. FUME CUPBOARD, QUANTITY: 4 Nos.**

**Overall dimension** (2000 L x 600 W x 2400 H) mm

**Fume hood dimension** (2000 L x 600 W x 1500 H) mm

**Inner dimension** (1875 x 550 x 1200) mm

18 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite insect attack.

**External construction**

Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.

**Internal construction**

Fume hood internal should be of fiber glass reinforced polyester resin of 6 mm thickness. The fiber glass reinforced polyester panel should have a minimum flexure strength of 15000 psi, with a flame spread less than 25 as per ASTM. Liners should be white in colour.

**Sash**

Vertical rising and horizontal sliding toughened glass of 5 mm thickness.

**Work top**

The work top should be made of intense chemical resistant 25 microns thick FEP (Fluorinated Ethylene Propylene) supported on a backing material of 16 mm thickness with a pressure sensitive acrylic adhesive that adheres to most surfaces.

Skirting of 15 mm thick granite on 3 sides should be provided.

#### **The following amenities should be included**

**Service line**

The fume hood should have 2 numbers of gas cocks

**Electrical receptacle:**

The hood super structure should be fully wired. It should have 4 numbers of 15/5 amps 3 pin socket with MCB or equivalent "Tiny Trip" with internal wiring.

**Lighting**

1 number 4 feet fluorescent light of 40 W should be provided with cover.

**Exhaust design**

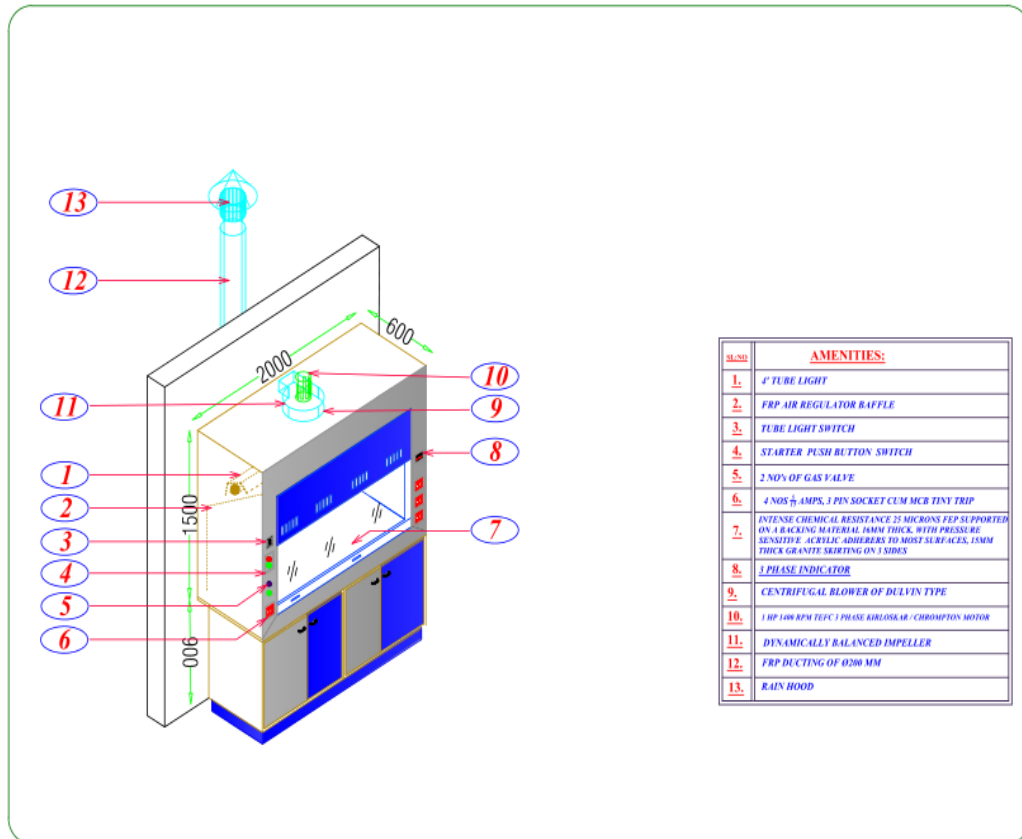
3 point suction for light, normal and heavy fumes.

## Chemical Storage Base Cabinet

<b>Car cass</b>	<p>The base cabinets should consist of 18 mm thick marine grade plywood chemically treated to prevent termite insect attack.</p> <p>Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).</p> <p>Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.</p>
<b>Shutters</b>	<p>The shutters &amp; drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation &amp; scratches.</p> <p>The loading levels lined with PP-FRP resin material for enhanced chemical resistance.</p>

## Centrifugal Motor & Blower

<b>Construction</b>	<p>The centrifugal blower should made of PP-FRP dulvin type for effective exhaust of harmful gases and vapors.</p>
<b>Capacity</b>	<p>1 HP 3 ph1400 RPM TEFC, IP55, Class F, Kirloskar or Chrompton or equivalent motor should be provided with a suction capacity of 800-1000 cfm (at different sash positions of each Fume Hood). The impeller should be of PP-FRP construction.</p>
<b>Standard</b>	<p>As per IS 325.</p>
<b>Ducting</b>	<p>FRP rigid ducting of 250 mm diameter should be provided from the blower to the duct collar. The total ducting should include flanges, bends, brackets, exhaust stacks &amp; necessary clamps.</p> <p><b>Ducting should be provided as per the site condition.</b></p>



## **5. FUME CUPBOARD, QUANTITY: 2 Nos.**

**Overall dimension** (1500 L x 600 W x 2400 H) mm

**Fume hood dimensio** (1500 L x 600 W x 1500 H) mm

**Inner dimension** (1375 x 550 x 1200) mm

18 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite insect attack.

### **External construction**

Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.

### **Internal construction**

Fume hood internal should be of fiber glass reinforced polyester resin of 6 mm thickness. The fiber glass reinforced polyester panel should have a minimum flexure strength of 15000 psi, with a flame spread less than 25 as per ASTM. Liners should be white in colour.

**Sash** Vertical rising and horizontal sliding toughened glass of 5 mm thickness.

**Work top** The work top should be made of intense chemical resistant 25 microns thick FEP (Fluorinated Ethylene Propylene) supported on a backing material of 16 mm thickness with a pressure sensitive acrylic adhesive that adheres to most surfaces.  
Skirting of 15 mm thick granite on 3 sides should be provided.

**The following amenities should be included**

**Service line** The fume hood should have 2 numbers of gas cocks

**Electrical receptacle:** The hood super structure should be fully wired. It should have 4 numbers of 15/5 amps 3 pin socket with MCB or equivalent "Tiny Trip" with internal wiring.

**Lighting** 1 number 4 feet fluorescent light of 40 W should be provided with cover.

**Exhaust design** 3 point suction for light, normal and heavy fumes.

**Chemical Storage Base Cabinet**

**Car cass** The base cabinets should consist of 18 mm thick marine grade plywood chemically treated to prevent termite insect attack.

Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.

**Shutters** The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

The loading levels lined with PP-FRP resin material for enhanced chemical resistance.

## Centrifugal Motor & Blower

### Construction

The centrifugal blower should be made of PP-FRP dulvin type for effective exhaust of harmful gases and vapors.

### Capacity

1 HP 3 ph 1400 RPM TEFC, IP55, Class F, Kirloskar or Chrompton or equivalent motor should be provided with a suction capacity of 800-1000 cfm (at different sash positions of each Fume Hood). The impeller should be of PP-FRP construction.

### Standard

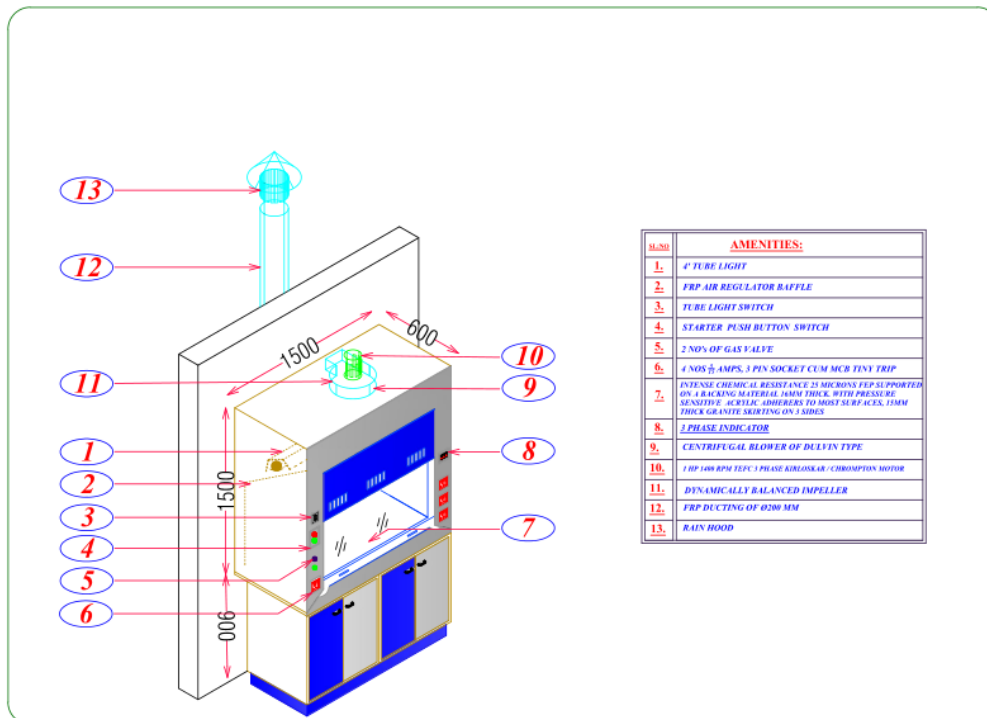
As per IS 325.

## Ducting

### Ducting

FRP rigid ducting of 250 mm diameter should be provided from the blower to the duct collar. The total ducting should include flanges, bends, brackets, exhaust stacks & necessary clamps.

**Ducting should be provided as per the site condition.**



**6. FUME CUPBOARD, QUANTITY: 28 Nos.**

**Overall dimension** (1725 L x 600 W x 2400 H) mm

**Fume hood dimension** (1725 L x 600 W x 1500 H) mm

**Inner dimension** (1600 x 550 x 1200) mm

18 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite insect attack.

**External construction**

Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.

**Internal construction**

Fume hood internal should be of fiber glass reinforced polyester resin of 6 mm thickness. The fiber glass reinforced polyester panel should have a minimum flexure strength of 15000 psi, with a flame spread less than 25 as per ASTM. Liners should be white in colour.

**Sash**

Vertical rising and horizontal sliding toughened glass of 5 mm thickness.

**Work top**

The work top should be made of intense chemical resistant 25 microns thick FEP (Fluorinated Ethylene Propylene) supported on a backing material of 16 mm thickness with a pressure sensitive acrylic adhesive that adheres to most surfaces.

Skirting of 15 mm thick granite on 3 sides should be provided.

**The following amenities should be included**

**Service line**

The fume hood should have 2 numbers of gas cocks

**Electrical receptacle:**

The hood super structure should be fully wired. It should have 4 numbers of 15/5 amps 3 pin socket with MCB or equivalent "Tiny Trip" with internal wiring.

**Lighting**

1 number 4 feet fluorescent light of 40 W should be provided with cover.

**Exhaust design**

3 point suction for light, normal and heavy fumes.

## Chemical Storage Base Cabinet

<b>Car cass</b>	<p>The base cabinets should consist of 18 mm thick marine grade plywood chemically treated to prevent termite insect attack.</p> <p>Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).</p> <p>Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aseptic appeal.</p>
<b>Shutters</b>	<p>The shutters &amp; drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation &amp; scratches.</p> <p>The loading levels lined with PP-FRP resin material for enhanced chemical resistance.</p>

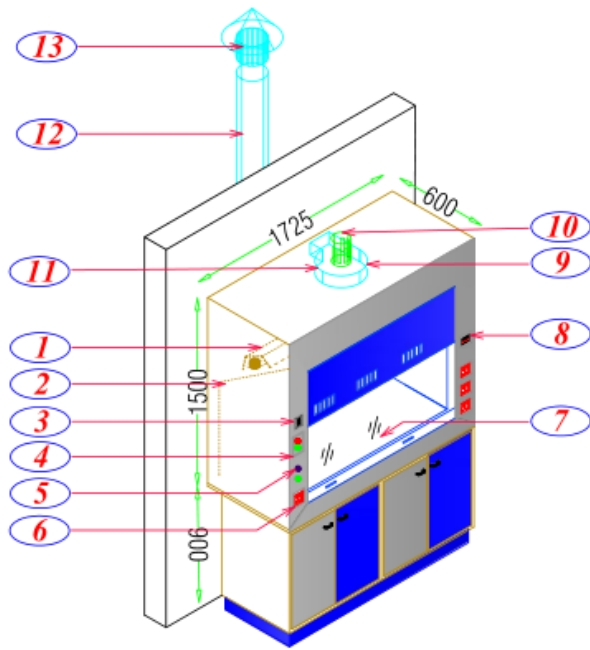
## Centrifugal Motor & Blower

<b>Construction</b>	<p>The centrifugal blower should made of PP-FRP dulvin type for effective exhaust of harmful gases and vapors.</p>
<b>Capacity</b>	<p>1 HP 3 ph1400 RPM TEFC, IP55, Class F, Kirloskar or Chrompton or equivalent motor should be provided with a suction capacity of 800-1000 cfm (at different sash positions of each Fume Hood). The impeller should be of PP-FRP construction.</p>
<b>Standard</b>	<p>As per IS 325.</p>

## Ducting

<b>Ducting</b>	<p>FRP rigid ducting of 250 mm diameter should be provided from the blower to the duct collar. The total ducting should include flanges, bends, brackets, exhaust stacks &amp; necessary clamps.</p>	<p><b>Ducting should be provided as per the site condition.</b></p>
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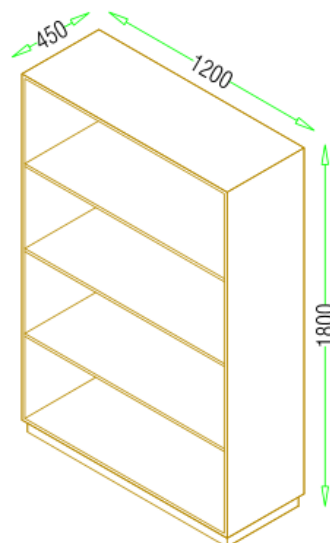


Sl.No	AMENITIES:
1.	4' TUBE LIGHT
2.	FRP AIR REGULATOR BAFFLE
3.	TUBE LIGHT SWITCH
4.	STARTER PUSH BUTTON SWITCH
5.	2 NO'S OF GAS VALVE
6.	4 NOS 5-AMPS, 3 PIN SOCKET CUM MCB TINY TRIP
7.	INTENSE CHEMICAL RESISTANCE 25 MICRONS FEP SUPPORTED ON A BACKING MATERIAL 15MM THICK, WITH PRESSURE SENSITIVE ACRYLIC ADHERERS TO MOST SURFACES, 15MM THICK GRANITE SKIRTING ON 3 SIDES
8.	3 PHASE INDICATOR
9.	CENTRIFUGAL BLOWER OF DULVIN TYPE
10.	1 HP 1400 RPM TEFC 3 PHASE KBL05KAR / CHROMPTON MOTOR
11.	DYNAMICALLY BALANCED IMPELLER
12.	FRP DUCTING OF Ø200 MM
13.	RAIN HOOD

**7. STUDENT BELONGING RACK (1200 L x 450 W x 1800 H mm) (Floor mounted), QUANTITY: 8 Nos.**

**Car cass**

: 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal. It should have 3 numbers of removable horizontal partition.



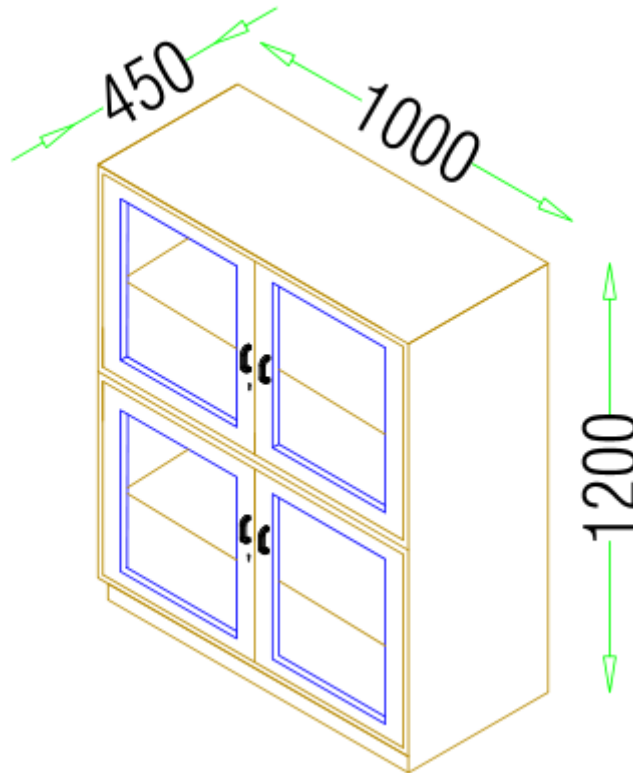
**8. TABLE MOUNTED CUPBOARD (1000 L x 450 W x 1200 H mm),**

**QUANTITY: 18 Nos.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.



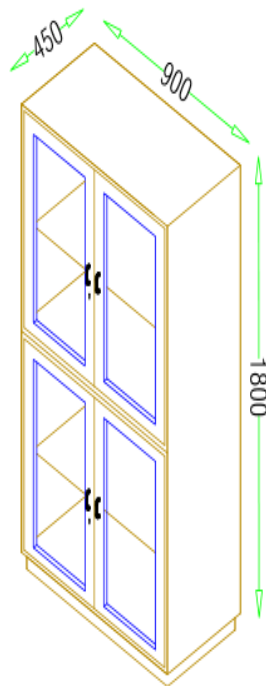
**9. GROUND MOUNTED CUPBOARD (900 L x 450 W x 1800 H mm),**

**QUANTITY: 5 Nos.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.

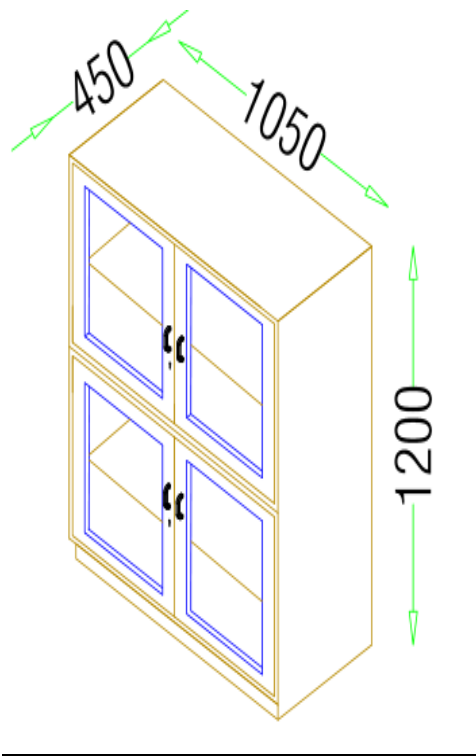


**10. BURETTE STORAGE RACK (Bench mounted) (1050 L x 450 W x 1200 H mm), QUANTITY: 3 Nos.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.

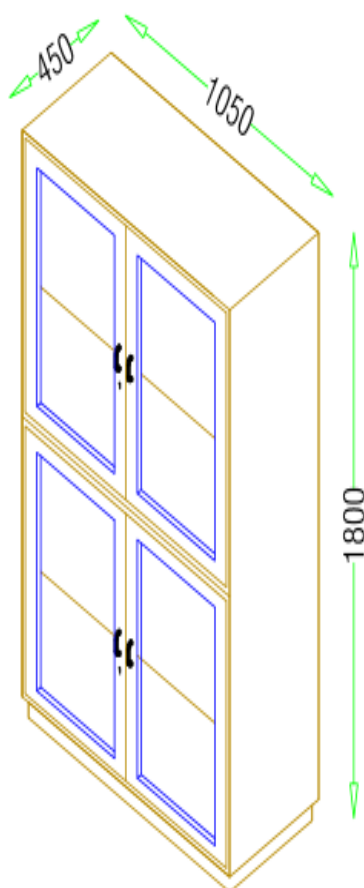


**11. BURETTE STORAGE RACK (Floor mounted) (1050 L x 450 W x 1800 H mm), QUANTITY: 1 No.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.

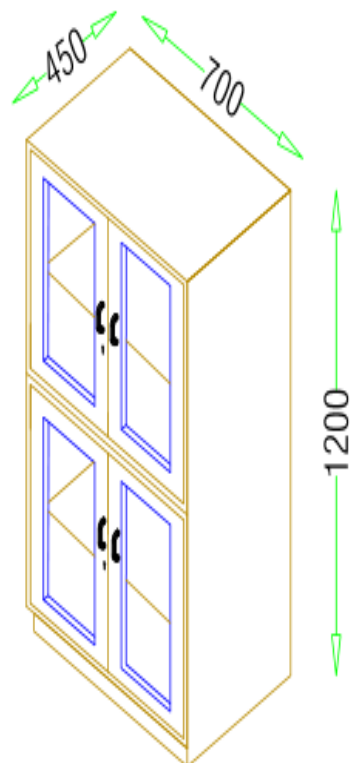


**12. PIPPETE STORAGE RACK (Bench mounted) (700 L x 450 W x 1200 H mm), QUANTITY: 3 Nos.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.

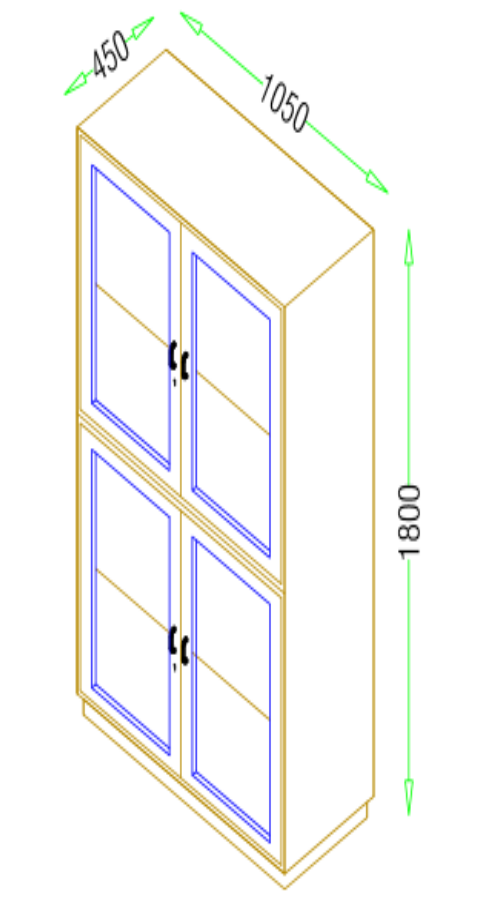


**13. PIPPETE STORAGE RACK (Floor mounted) (1050 L x 450 W x 1800 H mm), QUANTITY: 1 No.**

**Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

**Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches.

It should have front glass door and 3 numbers of horizontal partitions should be provided with locking system.



**14. UNDER BENCH STORAGE CUPBOARD QUANTITY: 3 Nos. (2 in modal A ((16200+11800+16200)L x 600W x 800H mm)) + 1 in model B ((13900+8500+16200Lx 600+750W x 900H)m))**

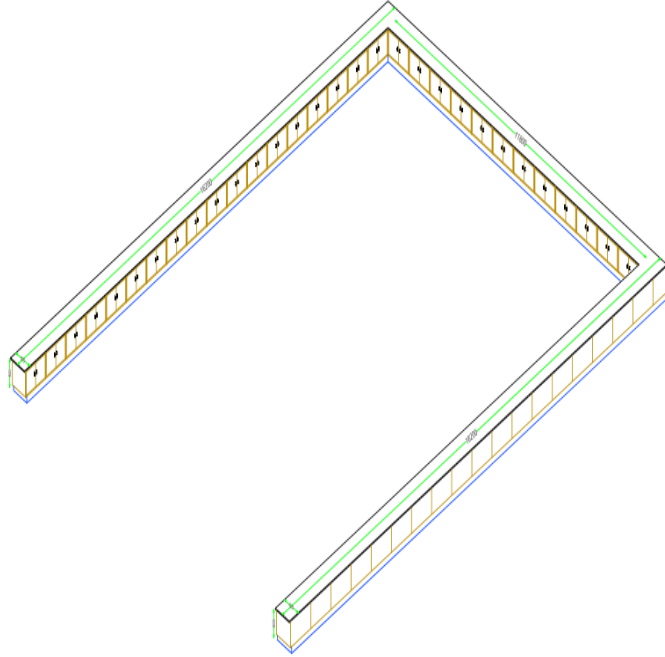
- Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.
- Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches. The shutters and drawer fronts should have post formed (profile) finish.
- Work top** : 19 mm ( $\pm 1$  mm) thick Jet Black granite with edges moulded and groove at bottom to avoid spillage on modular storages. The granite work top should have 50 mm overhang in front and sides.
- Cabinets** : 48

**Additional Specification for Model B (13900+8500+16200L x 600+750W x 900H)mm**

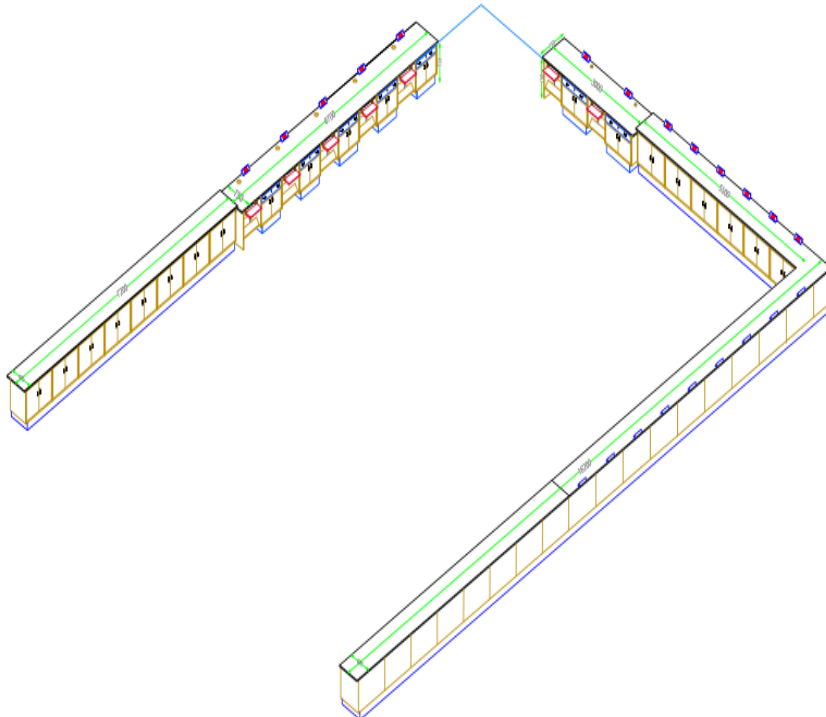
- Amenities** : 7 No's of writing pad size of 400 x 350 x 16mm thick made up of marine plywood chemical treated post formed finish ( full round profile)
- Electrical receptacles** : 22 No's of 15/5 amps 3 pin electrical socket cum switch with indicator light (Anchor / MK or equivalent)



Model A



Model B

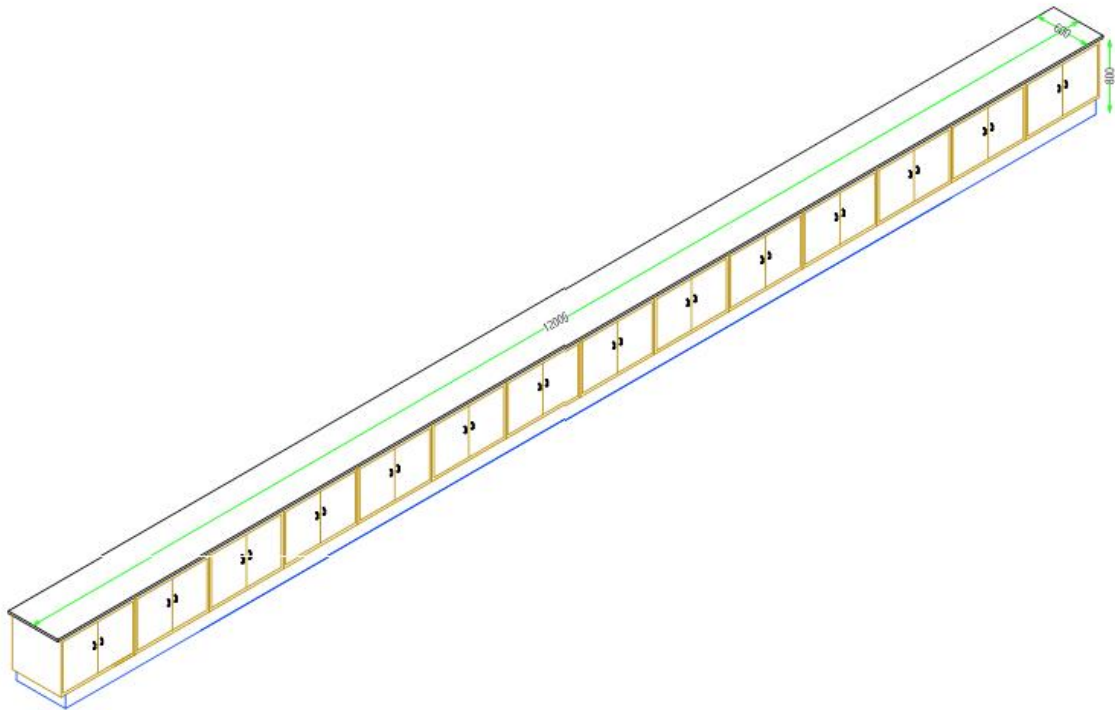


**15. UNDER BENCH STORAGE CUPBOARD , QUANTITY: 28 Nos ( Model A (14 nos)+ Model B (7 nos) + Model C (7 nos)**

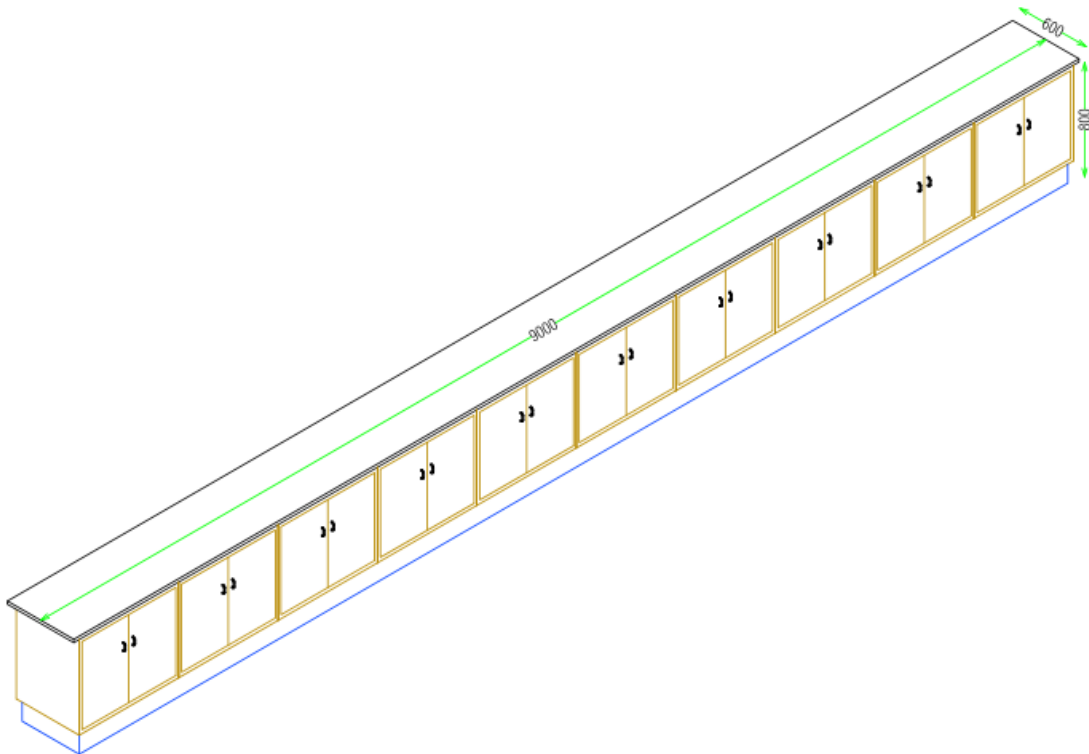
**Model A ((12000L x 600W x 800H mm), Quantity: 14 nos+ Model B (9000L x 600W x 800H mm), Quantity: 7 nos + Model C (10800L x 750W x 750H mm) Quantity: 7 Nos. Total Quantity 28 nos**

- Car cass** : 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press). Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.
- Shutters** : The shutters & drawer fronts should have PVC thermo foil (thickness 0.6 mm), wrapped on E1 grade core material. The acrylic coating on top of thermo foil should be resistant to deformation & scratches. The shutters and drawer fronts should have post formed (profile) finish.
- Work top** : 19 mm ( $\pm 1$  mm) thick Jet Black granite with edges moulded and groove at bottom to avoid spillage on modular storages. The granite work top should have 50 mm overhang in front and sides.
- Amenities** : Electrical raceway with 15/5 amps 3 pin socket and network ports should be provided for instrumentation purpose (as per site requirement).
- Cabinet** : 10 numbers
- For Models: C**  
**Amenities** : 8 No's of writing pad size of 400 x 350 x 16mm thick made up of marine plywood chemical treated post formed finish ( full round profile) 8 nos of cable manager will be provided.
- Electrical receptacles** : 8 No's of 15/5 amps 3 pin electrical socket cum switch with indicator light (Anchor / MK or equivalent)will be provided.

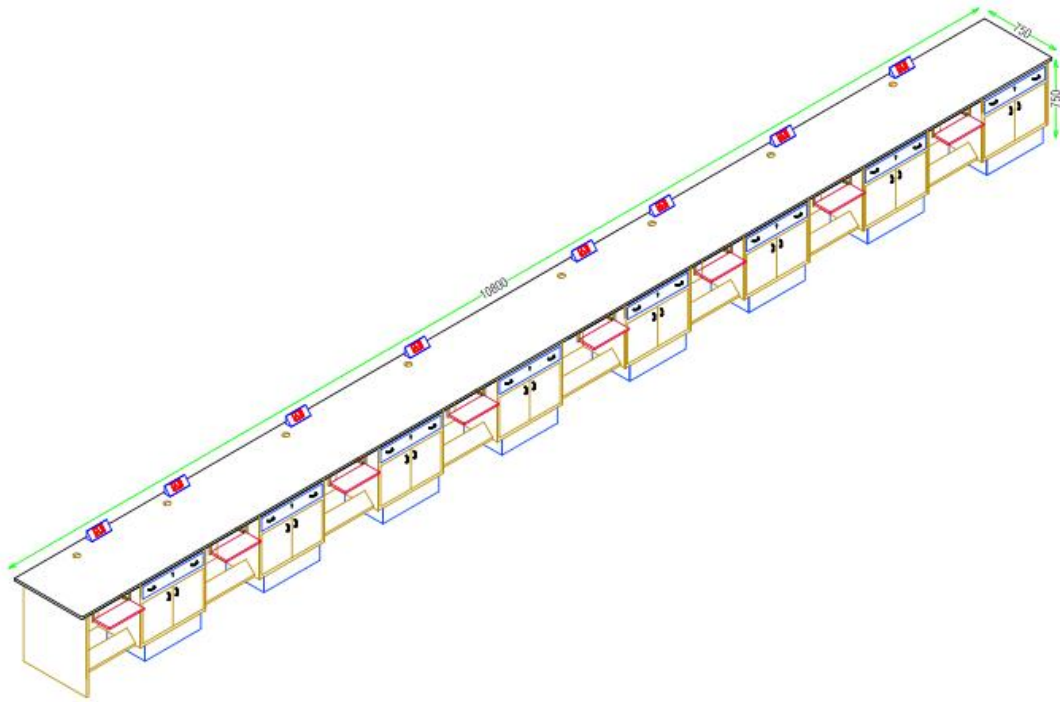
**Model A (14 nos)**



**Model B: 7 nos.**



**Model C: 7 nos**



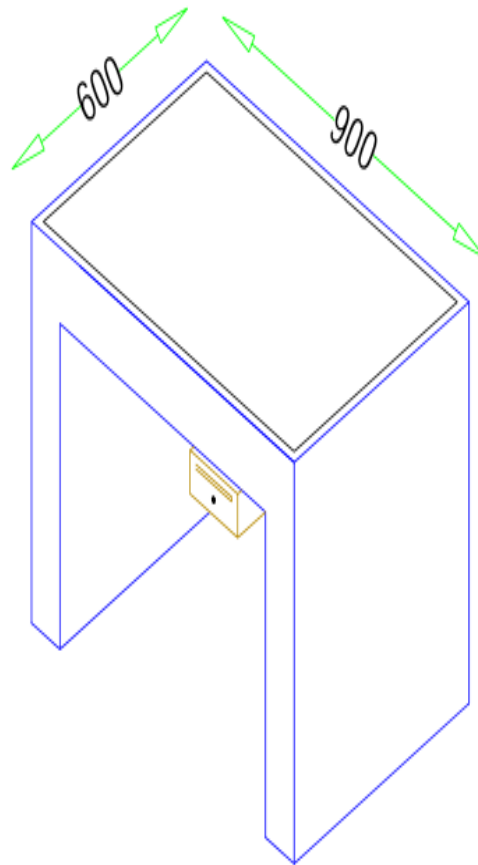
**16. ANTI VIBRATION TABLE (900 L x 600 W x 750 H mm), QUANTITY: 1 No.**

**Car cass**

: 16 mm thick marine grade plywood (kitply or equivalent) chemically treated to prevent termite/ insect attack. Melamine resin lamination with minimum thickness of 0.8 mm pressed at high temperature and pressure (using hydraulic hot press).

Edges should be sealed with 2 mm thick Rehau or equivalent PVC edge banding and trimmed for aesthetic appeal.

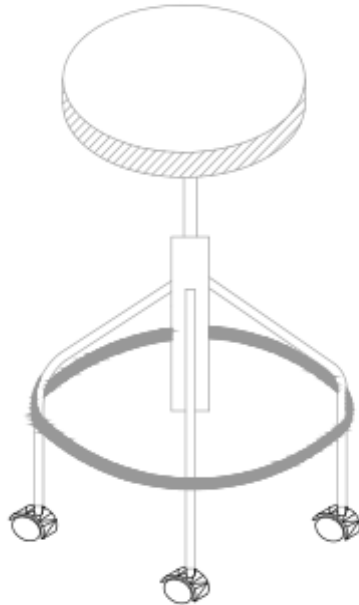
The inner tables should be an assemble of rubber pads duly fixed on each contact surfaces of the stone to dampen the minute vibrations. The outer work table should be positioned independently on the inner.



**17. LABORATORY STOOLS, QUANTITY: 380 Nos.**

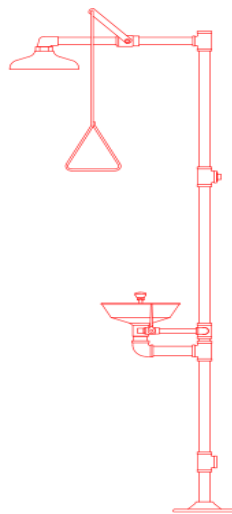
The frame structure of the revolving stool should be made out of heavy Gauge M.S. Round pipe and finished in IVORY colour epoxy polyester powder coat baked at 180°C.

The top of the revolving stool should be STAINLESS STEEL CIRCULAR TOP.



**18. EMERGENCY SHOWER UNIT, QUANTITY: 10 Nos.**

It should provide a complete safety station for immediate first aid. In one location both eye/face wash function & drench shower ensure instant flushing of the eyes / body with enough water. Shower and eye wash should be operated simultaneously or independently either by push lever or foot operation. Recommended water pressure: 30 psi 110 liters per minute.



**19. TWO WAY GAS COCKS (Bench mounted), QUANTITY: 52 Nos.**

## **20. BUNSEN BURNER WITH RUBBER TUBE, QUANTITY: 104 Nos.**

### **The following are the specifications for furniture amenities**

- Hinges : CED coated self closing hinges slip on type (Hettich/Ebco/Hafele)
- Handles : 'D' type handles with epoxy polyester powder coating (60-80 microns)  
(Ebco/Hettich)
- Locks : Square type locks with pair of keys (Godrej/Ebco/Hettich/equivalent)
- Drawer Slides : Telescopic type 1.2 mm x 1.2 mm x 1 m (Godrej/Ebco/Hettich/equivalent)

### **Bidder Prequalification Criteria**

Bidder should meet all the prequalification criteria as given below for qualifying to this tender:

1. The bidder should have carried out preferably 2 similar works each of value not less than 100 lakh in Govt. Universities / research institutes.
2. The vendor should have a well established manufacturing unit for lab furniture and fume hood with in-house testing facility complying fully with **ASHRAE-110-1995 standards for fume hoods**. ASHRAE 110-1995 membership certificate & third party test certificate should be submitted along with the tender.
3. Vendors with technical expertise and experience of supplying and installing a minimum of 10 Fume Hoods in a single order will be preferred.
4. The bidder should be an official member with SEFA (Scientific Equipments & Furniture Association). Membership certificate copy to be provided.
5. The bidder should have an annual financial turnover of not less than Rs.3 Crores during any of the last 3 financial years.
6. The bidder must possess ISO 9001:2008 certificate.
7. The bidder should produce company registration certificate and audited statement of accounts for the last 3 years.
8. A sample of island table without reagent racks has to be supplied at the time of technical bid opening.

- Quantity required : Island table - Size: 8400 L x 1500 W x 900 H mm (8 Nos.),  
Island table - Size: 3800 L x 1500 W x 900 H mm (14 Nos.),  
Island table - Size: 7500 L x 1500 W x 900 H mm (2 Nos.),  
Fume cupboard - 2000 L x 600 W x 2400 H mm (4 Nos.),  
Fume cupboard - 1500 L x 600 W x 2400 H mm (2 Nos.),  
Fume cupboard - 1725 L x 600 W x 2400 H mm (28 Nos.),  
Student belonging rack - floor mounted - 1200 L x 450 W x 1800 H mm (8 Nos.),  
Table mounted cupboard - 1000 L x 450 W x 1200 H mm (18 Nos.),  
Ground mounted cupboard - 900 L x 450 W x 1800 H mm (5 Nos.),  
Burette storage rack - bench mounted - 1050 L x 450 W x 1200 H mm (3 Nos.),  
Burette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),

Pipette storage rack - bench mounted - 700 L x 450 W x 1200 H mm (3 Nos.),  
Pipette storage rack - floor mounted - 1050 L x 450 W x 1800 H mm (1 No.),  
Under bench storage cupboard - model A: ((16200+11800+16200)L x 600W x 800H mm) (2 Nos.); model B: ((13900+8500+16200)L x 600+750W x 900H) mm (1 No.),  
Under bench storage cupboard - model A: 12000L x 600W x 800H mm (14 Nos.); model B: 9000L x 600W x 800H mm (7 Nos.); model C: 10800L x 750W x 750H mm (7 Nos.),  
Anti vibration table - 900 L x 600 W x 750 H mm (1 No.),  
Laboratory stools (380 Nos.),  
Emergency shower unit (10 Nos.),  
Two way gas cocks - bench mounted (52 Nos.),  
Bunsen burner with rubber tube (104 Nos.).

Any other details/requirement : **Any other accessories apart from the mandatory accessories mentioned above may be quoted separately**

Warranty period required (years) : **Minimum one year from the date of installation**

Delivery schedule expected after release of purchase order (in weeks) : **within eight weeks from the date of purchase order**

EMD (in Rupees) : **Rs. 2,68,200/-**

Performance Security to be given by the successful bidder after release of purchase order (in Rupees) : **5 % of the total order cost**



**SECTION : 4 – PRICE SCHEDULE**

**To be used by the bidder for submission of the price bid**

1. Component Name:
2. Specifications (confirming to Section 3 of Tender document-enclose additional sheets if necessary):
3. Currency and Unit cost (excluding Taxes):
4. Quantity:
5. Item cost (Sl.No.3 \* Sl.No.4) (in Indian Rupee):
6. Taxes and other charges:
  - (i) Specify the type of taxes and duties in percentages and also in figures
  - (ii) Specify other charges in figures
7. Total cost (Inclusive of all taxes) :
8. Warranty period (confirming to the Section 3 of Tender document. This should be mentioned in Technical bid also in order to get qualified for price bid):
9. Delivery Schedule (confirming to the Section 3 of Tender document):
10. Name and address of the firm for placing purchase order:
11. Name and address of Indian authorized agent (in case of imports only):

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....

**Place :**

**Date :**

**Seal of the Bidder's Firm**

(Note: All column should be filled. No column should be left blank. If any column is not filled-in properly or left empty then the bid will be rejected.)

**SECTION : 5 – CONTRACT FORM**

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**To be provided by the bidder in their business letter head**

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[Name of the Supplier’s Firm] hereby abide to deliver the .....by the delivery schedule mentioned in the Section 3 of the Tender document for supply of the items if the purchase order is awarded.

The item will be supplied conforming to the specifications stated in the tender document without any defect and deviations.

Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NIT, Trichy during this period.

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....

**Place :**

**Date :**

**Seal of the Bidder’s Firm**

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI**

**Annexure-A**

**MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Tender No. & Date:

Bidder's Offer No. & Date:

S. No.	Description of item	Unit (SET /No)	QTY	Rate /Qty in Rs. (excluding of all taxes)	ED in %	VAT/ CST In %	Service Tax in %	Total Value in Rs. (inclusive of all taxes)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	<b>Supply portion</b> (The price indicated shall be exclusive of all accessories, spares etc. as given in the scope of supply)							
2	Other accessories /spares etc as given in scope of supply(Individual item-wise break-up price shall be attached as an annexure to this price bid format.)							
3	Installation & Commissioning (extra, if any)							
4	Packing & Forwarding charges (extra, if any)							
5	FOR Dispatching station value in Rs.							
6	Freight & Transit insurance charges, extra, if any							
7	Total all inclusive price delivered, installed and commissioned at NITT							
8	Value of Annual Maintenance Contract							
9	<b>Net cost to be paid by NITT</b>							

**Signature & Seal of Vendor**

**Note: The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "Not Applicable". If this format is not used or any column is left blank, then the bid will be rejected.**