



तमिलनाडु केन्द्रीय विश्वविद्यालय

(संसद द्वारा पारित अधिनियम 2009 के अंतर्गत स्थापित)

CENTRAL UNIVERSITY OF TAMIL NADU

(Established by an Act of Parliament, 2009)

नीलकुडी परिसर/Neelakudi Campus, तिरुवारूर/Thiruvavur- 610 005.

☎:04366-277359 / email: purchase@cutn.ac.in

TENDER No.32/2016-17

02.02.2017

AMENDED TENDER DOCUMENT

(Including amendments after pre-bid conference held on 15.02.2017)

NOTICE INVITING TENDER FOR SUPPLY & INSTALLATION OF LABORATORY FURNITURE FOR DEPARTMENT OF LIFE SCIENCES AND DEPARTMENT OF MATERIALS SCIENCE

Central University of Tamil Nadu, invites sealed tender under Two-Bid System (Technical Bid –Annexure–I, Commercial Bid – Annexure–II) for **Supply & Installation of Laboratory Furniture for Department of Life sciences and Department of Materials Science** as detailed in the enclosed schedule from reputed manufacturers/authorized suppliers of reputed manufacturers fulfilling the eligibility criteria of the University given in this tender notification. The requirement given is only tentative and may increase or decrease.

The tender documents may be obtained from the Office of the Registrar, Central University of Tamil Nadu, Thiruvavur by paying a fees of **Rs.1,000/-** or downloaded from www.cutn.ac.in. The tenderers who are downloading the document from the website are required to enclose a Demand Draft for **Rs.1,000/-** drawn in favour of **Central University of Tamil Nadu** payable at Thiruvavur/Tiruvavur, towards the document fees. If exempted by the Govt. of India from payment of tender processing fee, a self-attested photocopy of the certificate issued by competent authorities for supply of Laboratory furniture should be enclosed. The sale of tender documents will close at **15:00 hours** as the day before the last date for submission of the tenders.

The technical bid (Annexure-I) and the commercial bid (Annexure-II) shall be sealed by the bidder in separate covers duly superscribed as **Tender for Supply & Installation of Laboratory Furniture for Dept. of Life Sciences and Dept. of Materials Science - Technical Bid** and **Tender for Supply & Installation of Laboratory Furniture for Dept. of Life Sciences and Dept. of Materials Science - Commercial Bid** respectively and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed as **Tender for Supply & Installation of Laboratory Furniture for Dept. of Life Sciences and Dept. of Materials Science, Tender Notice No.32/2016-17**. The

bidding may be made for a specific item or for all the items in **Annexure-IV**. The technical details of the Laboratory furniture along with the filled-in format (Annexure-I) should be kept inside the Technical Bid Envelope and sealed. The tender must reach The Registrar, Central University of Tamil Nadu, Neelakudi Campus, Thiruvavur-610 005 by post/courier or by hand on or before **17/03/2017, 16:00 hours**.

Tenders received after due date/time will not be considered under any circumstances. Canvassing in any form will result in the disqualification of the bidder.

Tenders sent by fax/email will not be considered. To avoid any complications with regard to Late Receipt/Non Receipt of Tenders, it may please be noted that responsibility rests with the bidder to ensure that the tenders reach the above mentioned address on or before the due date.

There will be a Pre-bid Conference on **15/02/2017** at **11:00** hours at the Room No.F1-02 Conference Hall, Administrative Building, CUTN. Pre-Bid conference shall be held to clear the doubts of intending tenderers, if any.

The technical bids shall be opened by the Tender Committee in the presence of authorized representatives of the bidders on **17/03/2017** at **17:00 hours**. The technical bids will be evaluated by an expert committee constituted for the purpose and based on the recommendations of the committee, the financial bids of only the technically acceptable offers, as recommended by the committee, will be opened.

The institute reserves right to reject any or all tenders without assigning any reason thereof. The University also reserves the right to buy only selected items (and not all) without assigning any reason. The recommendations of the committee and the decision of the University are binding and final.

Who can bid?

1. The tenderer should be dealing with the supply of similar Laboratory furniture at least FIVE years as on 01-01-2017.
2. The tenderer should have an annual turnover of at least **Rs. 1.5 Crore** per year during the last THREE financial years viz. 2013-2014, 2014-2015 and 2015-2016.
3. As the University is located in the rural terrain and facing continuous problems in installation and repair of the furniture, the University requires that the firms that supply the furniture should have authorized service centers in and around Thiruvavur and Puducherry jurisdictions. The University encourages that the vendors should have an authorized service centers in and around Chennai/Thanjavur/Kumbakonam/Trichy/ Puducherry.

4. The tenderer should undertake to provide comprehensive onsite maintenance during the warranty period and should be able to rectify/attend the complaints within 2 days of the receipt of complaint (excluding Saturday, Sunday or any closed holidays) during the warranty period.
5. The tenderer should be either an original manufacturer or the authorized dealer having been established in the field for minimum period of FIVE years as on 01-01-2017.
6. The firm should have registered with CST/ and VAT (State Government).
7. The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), Govt. of India, vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dt. 23-07-1996 respectively, in respect of
 - (a) Scientific and technical instruments, apparatus, equipment including computers.
 - (b) Accessories and spare parts of goods specified in (a) above and consumables.
 - (c) Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, micro-chips etc.,
 - (d) Prototypes

Hence, the bidders should take into consideration about this facility of the University while quoting for the advertised scientific equipments.

8. Latest clearance for Income Tax, VAT, CST, and Service Tax should be produced.
9. The manufacturer should have good quality management system conforming to International Standards like ISO 9001-2008.
10. The tenderer should have fulfilled all legal/statutory requirement to carry on the business of manufacturing/selling furniture.
11. The Technical Bid must be accompanied by the manufacturer's catalogue/ brochures and photograph etc. (in original) in respect of the product offered.

Pre-bid Conference:

A pre-bid conference will be held as indicated in the tender document. All prospective bidders/tenderers are requested to attend the pre-bid conference. In order to facilitate CUTN for proper conduct of the pre-bid conference, all prospective bidders/tenderers are requested to submit their queries with envelope bearing the tender number and date on top and marked “**Queries for Pre-Bid Conference**” so as to reach CUTN well before the date for Pre-bid Conference or by email to purchase@cutn.ac.in with subject “**Queries for pre-bid Conference**”. CUTN will answer the queries during the pre-bid conference, which would become a part of the proceedings of the conference. All the participating bidders/tenderers shall sign the proceedings. These proceedings will become a part of clarifications/amendments to the bidding documents and would become binding on all the prospective bidders/tenderers. These proceedings will also be published in CUTN website for the benefit of all the prospective bidders/tenderers. Before submitting the bids, all prospective bidders/tenderers are advised to go through the CUTN website after the pre-bid conference, in order to enable/make cognizance of the changes made in the bidding document.

Important Dates

Events	Date	Time	Venue
Date of Commencement of Sale of Tender Document	02.02.2017 (Thursday)	09:30 Hrs Onwards	-
Pre-bid Conference	15.02.2017 (Wednesday)	11:00 Hrs.	Conference Hall, Administrative Block, Room No.F1-02, (First Floor) CUTN
Last date of sale of Tender Document	16.03.2017 (Thursday)	15:00 Hrs.	-
Last date of submission of tenders	17.03.2017 (Friday)	16:00 Hrs.	-
Opening of Technical Bids	17.03.2017 (Friday)	17:00 Hrs.	Conference Hall, Administrative Block, Room No.F1-02, (First Floor) CUTN

Date: **02.02.2017****Registrar**
Central University of Tamil Nadu

Instructions to Bidders including Terms and Conditions of Contract

1. Scope of Bid

1.1. Central University of Tamil Nadu (CUTN), Thiruvavur, hereinafter called “**Purchaser**”, invites bid for supply, installation of Laboratory Furniture for Department of Life Sciences and Department of Materials Science and warranty for three years.

2. Cost of Bidding

2.1. The Bidder shall bear all costs associated with the preparation and submission of its bid and the Purchaser shall in no case be responsible or liable for those costs regardless of the conduct or outcome of the bidding.

3. Tender Document

3.1. The Tender Document is not transferable.

3.2. The bidder shall make a copy of the tender document before submitting the same to the concerned office. No requests will be entertained for making a copy after the submission of the document.

4. Amendment of Tender Document

4.1. At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by way of amendment(s).

4.2. Amendments will be intimated in writing to all Bidders who have received the Tender Document and shall be binding on them. Further, it will be assumed that the Bidder has taken into account such amendments while submitting the bid.

5. Language of Bid

5.1 The bid prepared by the Bidder and all correspondence and documents related to the tender exchanged by the Bidder and the Purchaser shall be in English and the Contract shall be construed and interpreted in accordance with that language.

5.2 If any of the brochures, leaflets or communication is prepared in any language other than English, a translation of such document, correspondence or communication shall also be provided at the cost and risk of the bidder. The translation so provided shall prevail in matters of interpretation. The bidder, with respect to such documents, correspondence, and communications, shall bear the costs and risks of such translation.

6. Documents Comprising the Bid

All bids must be substantially responsive and shall comprise the following:

- a. Earnest Money Deposit (EMD);

- b. Separate envelopes for technical as well as commercial bid sealed and put together in a sealed cover along with EMD.
- c. Documents establishing conformity of the furniture to the Tender Document;
- d. Bidder's company related information. The bidder should furnish photocopies of the PAN and TIN.
- e. Copy of Tender Document marked "Original" with each page signed and stamped to acknowledge acceptance of the same;
- f. Any other information, which the Bidder wishes to provide.
- g. Users list of same or at least closely similar Laboratory furniture supplied for similar purpose.
- h. The bidder should have an authorized service center in Chennai/Trichy/Tanjore/Kumbakonam or any other nearby city/town. Supporting documents mentioning the address of the service centers with telephone and Fax numbers should be attached with the bid.
- i. The bidder should have consistent annual turnover of at least **Rs. 1.5 Crore** per year for the last THREE financial years (2013-2014, 2014-2015 & 2015-2016) and should produce audited financial statements or financial statement showing turnover duly certified by a Chartered Accountant as proof of the same for the above mentioned financial years.
- j. The bidder should have supplied similar Laboratory furniture to at least three reputed central government educational/research institutions. Supporting documents such as purchase orders, work completion certificates should be attached with the bid. An undertaking to provide comprehensive onsite maintenance during the warranty period should be given by the bidder.
- k. The bidder should be a reputed manufacturer or an authorized dealer of reputed manufacturers for the furniture quoted in the tender; a certificate to this effect should be attached with the bid.

7. Format and Signing of Bid

7.1. The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons authorized. All pages of the bid shall be numbered and except for unamendable printed literature, shall be initialed by the person or persons signing the bid.

7.2. The bid shall not contain any interlineations, erasures, or overwriting, except to correct errors made by the Bidder, in which case the person or persons signing the bid shall initial such corrections.

8. Sealing and Marking of Bids

8.1. The Bidder shall seal the bid in an envelope.

8.2. The envelope shall

- be addressed to **The Registrar, Central University of Tamil Nadu, Neelakudi Campus, Thiruvarur – 610 005.**
- bear the reference number, the title of the Tender Document (Tender Notice No. 32/2016-17), and
- bear the name and address of the Bidder so that the bid can be returned

unopened in case it is declared late.

8.2. If the outer envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

8.3. Cable/Facsimile or Fax/conditional Bids shall be rejected.

9. Bid Prices

9.1. Prices must be quoted separately for each furniture/item identified.

9.2. Price quoted for furniture must include all costs associated with packing, transportation, insurance, all duties and levies, delivery of Furniture, loading and unloading on DOOR DELIVERY basis to the university at Thiruvavur including its installation.

9.3. Prices quoted by the Bidder shall be firm during the validity of the bid.

10. Bid Currency: Prices of furniture shall be quoted in Indian Rupees.

11. Conformity of the Tender Document

11.1. The Bidder shall furnish, as part of its bid, documents establishing the conformity of the Furniture that the Bidder proposes to supply under the Contract to the requirements of the Purchaser, as given in the Tender Document.

11.2. The documentary evidence of conformity of the Furniture to the Tender Document may be in the form of written descriptions supported by literature/diagrams/certifications, including:

- (a) A detailed description of the essential technical, functional and performance characteristics of the Furniture that the Bidder is proposing to supply;
- (b) Technical details of the major subsystems/components of the Furniture;

12. Firms registered with NSIC

This tender as per circular no F.N.22 (1)/2003/EP&M dt 29/07/2003 from Ministry of Micro, Small & Medium Enterprise, Govt. of India under the Govt. Stores Purchase Programme extends following benefits to the tenderers registered with NSIC.

- (i) Issue of Tender sets free of cost.
- (ii) Exemption from payment of earnest Money.
- (iii) Waiver of Security Deposit to the Monetary Limit for which the unit is registered
- (iv) Price preference up to 15% over the quotation of large –scale units.

13. Earnest Money Deposit (EMD)

13.1. The Bidder shall furnish, as part of its bid, an EMD @ 2.5% on estimated value and that shall be interest free. The amount of EMD is mentioned at **Annexure–III.**

13.2 The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI) are exempted to furnishing the EMD and tender fee. Self-attested photocopy of valid registration certificate issued by

competent authority for supply of Laboratory furniture must be enclosed with the technical bid.

13.3 The EMD shall be in the form of a demand draft drawn in favour of **Central University of Tamil Nadu** and payable at Thiruvarur/Tiruvarur. The EMD may also be in the form of Bank Guarantee (**ANNEXURE-VI**).

13.4 Any bid not accompanied with the EMD shall be rejected by the Purchaser as non-responsive.

13.5 The bid security of the Bidders will be returned as promptly as possible, but not earlier than fifteen (15) days after the successful Bidder has furnished the required performance security.

13.6 The EMD may be forfeited under the following circumstances.

(a) If a Bidder:

(i) Withdraws its bid during the period of bid validity specified on the Bid Form or

(b) In the case of the successful Bidder, if the Bidder fails to:

(i) Sign the Contract or

(ii) Furnish performance security.

14. Period of Validity of Bids: Bids shall remain valid for a period of 180 days after the date of deadline for submission of bids prescribed by the Purchaser.

15. Deadline for Submission of Bids

15.1 Bids must be received by the Purchaser at the address specified not later than the time and date as stated. In case this date happens to be a declared holiday for the office of the Purchaser or happens to be a holiday declared incidentally, the Bids shall be received up to the appointed time on the next working day.

15.2 The Purchaser may, at its discretion, extend this deadline for submission of bids in which case all rights of the Purchaser and all obligations of the Bidders will thereafter be subject to the deadline as extended.

16. Late Bids: Any bid received by the Purchaser after the bid submission deadline prescribed by the Purchaser, shall be rejected and returned unopened to the Bidder.

17. Modification and Withdrawal of Bids

17.1 The Bidder may modify or withdraw the bid after submission, provided a written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for bid submission.

17.2 The Bidder's modifications shall be prepared, sealed, marked and dispatched as follows:

(a) The Bidders shall provide the modification to its bid, clearly identified as such, in an envelope duly marked **BID MODIFICATION**.

17.3. A Bidder wishing to withdraw the bid shall notify the Purchaser in writing prior to the deadline prescribed for bid submission. The withdrawal notice shall:

- (a) Be addressed to the Purchaser at the specified address and
- (b) Bear the reference number and the title of the project and the words **BID WITHDRAWAL NOTICE**. Bid withdrawal notices received after the bid submission deadline will be ignored and the bid submitted prior that bid will be deemed to be a valid bid.

17.4 No Bid may be modified subsequent to the deadline for submission of Bids.

17.5 No bid may be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period. Withdrawal of a bid during this interval may result in the forfeiture of the Bidder's EMD.

18. Sample: Sample of the quoted items should be produced as and when required for verification before effecting supplies from the lowest bidders by the Central University of Tamil Nadu. However, the samples will be retained by University till the supply is completed. The final selection will be made based on the acceptance of the sample/model approved by the Central University.

19. Test Certificate: Necessary valid Test Certificate from a laboratory which enjoys NABL certification shall be produced for all the quoted products at the time of bidding itself.

20. Opening and Examination of Bids

- 20.1 The Technical bids will be opened on the prescribed date and time as mentioned in the Bid document. Bidders or their representative may be present during the opening of technical bid, if they wish to be present.
- 20.2 The purchaser will evaluate the technical bids. Those bids, whose technical bids fulfill the technical requirements (including sample approval) and responsive to the tender requirements will be considered. Those bids which found to be either non-responsive, not satisfying the technical requirements or both will not be considered and will be rejected.
- 20.3 The Price bids of the successful bidders on the basis of evaluation as mentioned in 20.2 will be considered the next stage for opening.
- 20.4 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required security has been furnished, whether the documents have been properly signed and whether the bids are generally in order.
- 20.5 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, *the unit or subtotal price shall prevail* and the total price shall be corrected. If there is a discrepancy between words and figures, *the amount in words shall prevail*. If a Bidder does not accept the correction of errors, the bid will be rejected and its EMD may be forfeited.
- 20.6 The Purchaser may waive any minor nonconformity or irregularity in a bid

that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

20.7 Prior to the detailed evaluation, the Purchaser will determine whether each bid is complete and is substantially responsive to the Tender Document. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the Tender Document without material deviations, exceptions, objections, conditionality or reservations. A material deviation, exception, objection, conditionality, or reservation is:

- (a) One that limits in any substantial way the scope, quality, or performance of the Furniture; **OR**
- (b) One that limits, in any substantial way that is inconsistent with the Tender Document, the Purchaser's rights or the successful Bidder's obligations under the Contract; and
- (c) One that the acceptance of which would unfairly affect the competitive position of other Bidders who have submitted substantially responsive bids.

20.8 If a bid is not substantially responsive, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity. The Purchaser's determination of bid responsiveness will be based on the contents of the bid itself and any written clarifications submitted by the Bidder.

21. Clarification of Bids: During the bid evaluation, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered or permitted.

22. Evaluation of Responsive Bids: The Purchaser will evaluate the bids that have been determined to be substantially responsive.

23. Contacting the Purchaser

23.1 From the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bid, it shall do so in writing.

23.2 If a Bidder tries to influence the Purchaser by anyway or otherwise interfere in the bid evaluation process and the Contract award decision, its bid shall be rejected.

24. Award Criteria

24.1 Purchaser will award the Contract to the Bidder whose bid has been determined to be substantially responsive and the lowest Bid evaluated.

24.2 The University reserves the right to buy different items/quantity from different bidders considering price of individual/group of furniture or any other factors as decided by the committee.

24.3 The Purchaser reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.

24.4 The final selection will be made based on the acceptance of the sample/model approved by the Central University of Tamil Nadu.

25. Purchaser's Right to Accept/Reject/Modify Bids

25.1. The Purchaser reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.

25.2. The Purchaser reserves the right to negotiate with the Bidder having the Lowest Evaluated Bid, in terms of the technical configuration proposed by the Bidder.

26. Award of Purchase Order

26.1 Prior to the expiration of the period of bid validity, the Purchaser will issue the Letter of Intent/Purchase Order to the successful Bidder in writing.

26.2 The Purchase Order will constitute the foundation of the Contract.

27. Contract Agreement

27.1 Within fifteen (15) days of receipt of the Purchase Order, the successful Bidder shall sign and date its copy on each page and return it to the Purchaser, along with the Performance Security.

27.2 Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.

28. Performance Security

28.1 Within fifteen (15) days of receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security for 10% of the order value amount specified. **This security will be valid all along the warranty period and shall extend upto sixty (60) days after the date of completion of warranty period.**

28.2 The security shall be in one of the following forms:

(a) A bank guarantee (in the format as provided in **Annexure-VII** of the bidding documents) issued by the Indian Scheduled bank acceptable to the Purchaser.

(b) A Demand Draft favouring **Central University of Tamil Nadu** payable at Thiruvarur/Tiruvarur.

28.3 The security shall automatically become null and void once all the obligations of the Supplier under the Contract have been fulfilled, including, but not limited to, any obligations during the Warranty Period and any extensions to the period. The security shall be returned to the Supplier not later than fifteen (15) days after its expiration.

28.4 Failure of the successful Bidder to comply with the requirements shall

constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which event the Purchaser may make the award to the next lowest evaluated bid submitted by a qualified Bidder or call for new bids.

29. Contract Documents

29.1 All documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

29.2 The order of precedence of the Contract documents will be as follows:

- (i) Contract Agreement
- (ii) All other Forms
- (iii) Furniture and their Requirements
- (iv) Supplier's Bid
- (v) Tender Document

30. Amendment to Contract: No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, refers to the Contract and is signed by a duly authorized representative of each party to the Contract.

31. Supplier's Responsibilities

31.1 The Supplier's obligations involve:

- (a) Supply of Laboratory furniture /items given in Tender Document.
- (b) Installation of the furniture, as and when required.
- (c) Supply of Laboratory furniture and any other documents specified in the Contract.
- (d) Maintenance (Free service) of the Furniture during the warranty period.

31.2 The Supplier shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items, services and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for installation of Laboratory Furniture as if such work and/or items and Materials were expressly mentioned in the Contract.

31.3 The Supplier shall comply with all laws in force in India. The laws will include all national, provincial, municipal or other laws that affect the performance of the Contract and are binding upon the Supplier. The Supplier shall indemnify and hold harmless, the Purchaser from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature arising or resulting from the violation of such laws by the Supplier.

32. Time for Supply and Installation of the Laboratory Furniture

32.1 The Supplier shall supply the Laboratory Furniture within the period specified in the tender document i.e. **within 8 – 10 weeks of signing the purchase order or within the period mutually agreed between purchaser and supplier.**

32.2. The Supplier shall thereafter proceed with the installation of the Laboratory

furniture within the period specified, unless another date is mutually agreed.

33. Terms of Payment

33.1. 90% payment will be released after satisfactory delivery, installation and after getting a certification of quality of the entire consignment by the quality Inspection Committee of the furniture and remaining 10% will be released on submission of a Bank Guarantee for equivalent value (10%) as performance security to cover the warranty period (36 months).

33.2. If any time before the delivery of the furniture, it is found that the same furniture have been offered to another party in India at a lower rate, payment shall be restricted to the extent of such lower rate and the Supplier shall be liable to pay the Purchaser the difference in two rates i.e. excess charged over such lower rate. The University will look into a reasonable past period to ensure this.

34. Taxes and Duties: The Price quoted for materials must include all costs associated with packing, transportation, transit insurance, all duties and levies, delivery of items, loading and unloading on **DOOR DELIVERY** basis to the university at Thiruvavur. The Supplier should ensure payment of all taxes, duties, levies and charges assessed by all municipal, state or national government authorities, in connection with the Goods and Services supplied under the Contract.

35. Penalties

34.1 If the Supplier fails to complete any of the activities in accordance with the time specified for it, or any extension of the time granted by the Purchaser, the Supplier shall pay to the Purchaser penalties at the rate specified in the Tender document.

34.2 The Purchaser reserves the right to terminate the contract if the Supplier defaults on any of the time limits by more than two weeks.

36. Defect Liability

36.1 The Supplier warrants that the Laboratory Furniture, including all subassemblies and components provided, shall be free from defects in the design, engineering/manufacturing, workmanship and performance that prevent the furniture and/or any of its subassemblies and components from fulfilling the furniture Requirements or that limit in a material fashion the operation, reliability, accuracy, sensitivity and precision of the furniture, its subassemblies and components. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.

36.2 The Warranty Period shall commence from the date of validation of the furniture and shall extend for the length of time specified in the tender document supra.

36.3 If during the Warranty Period any defect found in the furniture, the Supplier shall promptly, at its sole cost, repair or otherwise make good such defect as well as any damage to the Equipment caused by such defect. Any defective furniture,

Subassembly or component that has been replaced by the Supplier shall become the property of the Supplier and the new substituted/replaced furniture in good condition shall become the property of the purchaser.

36.4 Validation of the furniture shall be carried out by the Supplier each time a major repair is carried out in the furniture during the warranty period.

36.5 Response time for attending to defects shall be 24 - 48 hours after they are reported to the Supplier or its designated service agent. If the furniture cannot be used for more than TWO working days by reason of such defect and/or making good of such defect, the warranty period for the furniture shall be extended by a period equal to the period during which the furniture could not be used by the Purchaser because of such defect and/or making good of such defect.

37. Subletting of Work: The firm shall not assign or sublet the work or any part of it to any other person or party.

38. Intellectual Property Rights Warranty and Indemnity

38.1 The Supplier hereby represents and warrants that the furniture as supplied, installed to the Purchaser in accordance with the Contract does not and will not infringe any Intellectual Property Rights held by any third party.

38.2 The Supplier shall indemnify and hold harmless the Purchaser from and against any and all losses, liabilities and costs (including losses, liabilities and costs incurred in defending a claim alleging such a liability), that the Purchaser may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights.

39. Effect of Force Majeure

39.1 If the Supplier is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the Purchaser in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fifteen (15) days after the occurrence of such event.

39.2 The Supplier, when affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upon its performance of the Contract and to fulfill its obligations under the Contract, but without prejudice to

Purchaser's right to terminate the Contract.

39.3 No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall:

- (a) Constitute a default or breach of the Contract;
- (b) Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.

39.4 If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than THIRTY days or an aggregate period of more than sixty (60) days on account of one or more events of Force Majeure, the

Purchaser shall have the right to terminate the Contract by giving a notice to the Supplier.

40. Extension of Time Limits for supply of the Laboratory Furniture: The time limit for supply, installation shall be extended if the Supplier is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) Any occurrence of Force Majeure;
- (b) Any other matter specifically mentioned in the Contract;

By such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Supplier.

41. Assignment: The Supplier shall not, without the prior written consent of the Purchaser, assign to any third party, the Contract or any part thereof.

42. Governing Law: The Contract shall be governed by and interpreted in accordance with the laws of India.

43. Settlement of Disputes: Any dispute or claim arising out of/relating to this Contract or the breach, termination or the invalidity thereof, shall be settled by the Hon'ble Courts of Justice at Thiruvarur.

44. The page number should be marked in all pages serially (including all supporting documents enclosed with the tender document) and the declaration for the same shall be submitted by the bidder as **Annexure-VIII**.

45. Central University of Tamil Nadu reserves the right to accept or reject any or all the tenders in part or whole or may cancel the tender at its sole discretion without assigning any reason whatsoever. No further correspondence in this regard will be entertained.

SUMMARY SHEET:

Purchaser	Central University of Tamil Nadu
Purchaser's address	Central University of Tamil Nadu, Neelakudi Campus, Thiruvavarur – 610 005.
Tender Document Fees	Rs.1,000/-
EMD	EMD @ 2.5% on estimated value and that shall be interest free. The amount of EMD is mentioned at Annexure – III.
Period of Bid Validity	The Bids shall be valid for a period of One Hundred and Eighty (180) days from the date of deadline for the submission of bids.
Pre-bid Conference	Time: 11:00 hours; Date: 15.02.2017
Deadline for the submission	Time: 16:00 hours; Date: 17.03.2017
Time Date and Venue for opening of Bids	<u>Technical Bids</u> <u>Time:</u> 17:00 hours; <u>Date:</u> 17.03.2017. <u>Venue:</u> Administrative Building, Room No.F1-02
Performance Security	The Supplier shall provide a performance security equal to 10% of the Contract value (excluding the value of annual maintenance charges).
Deadline for the supply and installation of the furniture	8 – 10 weeks from the date of issuance of Purchase Order.
Deadline for the Installation and Commissioning of furniture	Two (02) weeks from the deadline for supply of furniture
Rate for Penalties	The Supplier shall pay the Purchaser Penalties at the rate of 1.0% per week of the Contract value (excluding the value of annual maintenance charges).
Warranty Period	The period of warranty shall be Thirty Six (36) months after validation.

Technical Bid
(To be enclosed in a separate Sealed Cover)

Company Profile	
Name	
Address of the registered office	
Name & Designation of CEO	
Contact numbers of CEO	
Nature of Business	
Years of operations in India	
Location of offices in India	
Alliances for the purpose of this Bid	
Details of alliance(s)	
Type of alliance(s)	
Experience/Credentials	
Number of similar units installed in India	
Number of similar units installed in Chennai/Trichy/ Tanjore/Kumbakonam or any other nearby city/town	
* List of satisfied customers in India	
Service Support in India	
Track record of service provided to clients with supporting documents	
Location of service centers	
Number of trained service engineers	
Number of trained service engineers exclusively dedicated to each furniture offered	
Number of trained service engineers for the furniture offered stationed in Chennai/Trichy/ Tanjore /Kumbakonam or any other nearby city/town	
Number of application specialists	
Whether the OEM makes available any service support in India	
Availability of spares in India	
Whether the service set up maintains stock of essential spares in India	
Lead time for supply of essential spares	

* Testimonials from three satisfied customers may be attached
Compliance Statement to specifications of the Laboratory furniture to be provided
by the tenderer as in **Annexure-V**

Signature _____

Name _____

Designation _____

Date: _____

Place: _____

Seal of Company _____

Other Details:

Name and Address of the bidder:

Note: All the following details shall relate to the vendor for the items quoted for.

1. Name of the Bidder
 - a. Full postal address
 - b. Full address of the premises
 - c. Telegraphic address
 - d. Telex number
 - e. Telephone number
 - f. Fax number
 - g. Type of firm: Propriety/ Private/ Private Ltd/ MNC/ Cooperative/Govt. undertaking.
 - h. Name of the proprietor /Partners
 - i. Year of starting of manufacturing
 - j. PAN Number
 - k. TIN Number

2. Application fee of Rs. _____ DD No. _____ Dated _____

3. EMD of Rs. _____ DD No. _____ Dated _____

4. Total Annual Turn-over (value in INR) (2013-2014, 2014-2015 & 2015-2016) (Balance Sheet and Profit & Loss Account duly certified by a Chartered Accountant to be attached).

5. Has the firm ever been debarred/blacklisted by any Govt. Organization/Dept.?
If 'yes' the details thereof.

The terms and condition or acceptable to me/us.

Signature and seal of the bidder

COMMERCIAL BID
(To be enclosed in separate sealed cover)

1. The price of the Laboratory furniture in the **Annexure-IV** is to be given individually in the format mentioned below:

Sl. No.	Name of the Item	No. of Units/ Sets	Basic Price / unit (Rs.)	Taxes/ Unit (Rs.)	Any other specific charge (Rs.)	Total Price (Rs.) [(4+5+6)x3]
(1)	(2)	(3)	(4)	(5)	(6)	(7)
I. Lab Furniture for Department of Life Sciences						
1	Instrument work Station table Size: 9000L x 900W x 900H mm	02				
2	Instrument work Station table Size: 6000L x 900W x 900H mm	02				
3	Student work Station table Size: 6000L x 600W x 750H mm	02				
4	Island Table work Station Size: 5000L x 1500W x 900H mm	04				
5	Fume Hood Size: 1500L x 750W x 2400H mm	02				
6	Laminar Air Flow Size: 1200L x 600W x 1800H mm	02				
7	Vertical Storage Cupboard Size: 900L x 750W x 1800H mm	02				
8	Ground Mounted Cupboard Size: 900L x 450W x 1800H mm	02				
9	Anti-Vibration Table Size: 900L x 600W x 750H mm	02				
10	Emergency Shower With Eye Wash	02				
11	Wall Storage Cupboard Size: 900L x 300W x 600H mm	10				

Sl. No.	Name of the Item	No. of Units/ Sets	Basic Price / unit (Rs.)	Taxes/ Unit (Rs.)	Any other specific charge (Rs.)	Total Price (Rs.) [(4+5+6)x3]
12	Round table with 3 Chairs Size: 4ft (dia) x 750H mm	02				
13	Ground Mounted Cupboard Size: 900L x 450W x 1800H mm	02				
14	Island Table work Station Size: 3000L x 1500W x 900H mm	03				
15	Instrument work Station table Size: 6000L x 900W x 900H mm	10				
16	Lab Stool with back	12				
II. Lab Furniture for Department of Materials Science						
17	Island Table Size:3700Lx1200Wx900H mm	03				
18	Fume Cupboard Size: 1500Lx750Wx2400H mm	02				
19	Staff table with chair Size: 1200Lx600Wx750H mm	01				
20	Ground mounted cupboard Size: 900Lx450Wx1800H mm	01				
21	Student Belonging rack Size: 900Lx600Wx1800H mm	02				
22	Instrument Table Size: 4000Lx750Wx900H mm	01				
23	Vertical Storage Cupboard Size: 900Lx750Wx1800H mm	01				
24	Floor Mounted emergency shower with eye wash	01				
25	Laboratory chair for students	24				
26	Anti-vibration Table Size: 750Lx600Wx750H mm	02				
27	Wall Storage Cupboard Size: 900Lx300Wx600H mm	04				
28	Instrument Table Size: 1500Lx750Wx900H mm	05				
Grand Total (Inclusive of all taxes)		(In words)			(In figures)	

2. The quote should include a warranty of **THREE** years from the date of installation of the furniture.

3. Maximum educational discount as could be offered should be mentioned.

4. Price quoted for furniture must include all costs associated with packing, transportation, insurance, taxes, octrai, forwarding, transit, loading and unloading on **DOOR DELIVERY** basis to the university at Thiruvavarur including its installation, commissioning, integration and validation.

5. The bid will be valid for a period of 180 days from the date of opening of Technical Bid and prior to the expiration of the bid validity the Tender Inviting Authority may request the bidders to extend the bid validity for further period as deemed fit.

Signature and seal of the bidder

Annexure-III

List of Laboratory Furniture to be supplied

Item No.	Description	Approximate Qty.	Estimated Value	EMD Amount
I. Laboratory Furniture for Department of Life Sciences				
1	Instrument work Station table Size:9000L x 900W x 900H mm	02	2,43,000	6,075
2	Instrument work Station table Size:6000L x 900W x 900H mm	02	1,56,000	3,900
3	Student work Station table Size: 6000L x 600W x 750H mm	02	1,51,000	3,775
4	Island Table work Station Size: 5000L x 1500W x 900H mm	04	7,60,000	19,000
5	Fume Hood Size: 1500L x 750W x 2400H mm	02	3,20,000	8,000
6	Laminar Air Flow Size: 1200L x 600W x 1800H mm	02	2,50,000	6,250
7	Vertical Storage Cupboard Size: 900L x 750W x 1800H mm	02	64,000	1,600
8	Ground Mounted Cupboard Size: 900L x 450W x 1800H mm	02	32,000	800
9	Anti Vibration Table Size: 900L x 600W x 750H mm	02	57,000	1,425
10	Emergency Shower With Eye Wash	02	22,000	550
11	Wall Storage Cupboard Size: 900L x 300W x 600H mm	10	70,000	1,750
12	Round table with Three Chairs Size: 4ft (dia) x 750H mm	02	50,000	1,250
13	Ground Mounting Cupboard Size: 900L x 450W x 1800H mm	02	32,000	800
14	Island Table work Station Size: 3000L x 1500W x 900H mm	03	5,10,000	12,750
15	Instrument work Station table Size: 6000L x 900W x 900H mm	10	7,80,000	19,500
16	Lab Stool with back	12	54,000	1,350
II. Laboratory Furniture for Department of Materials Science				
17	Island Table Size:3700Lx1200Wx900H mm	03	4,80,000	12,000
18	Fume Cupboard Size: 1500Lx750Wx2400H mm	02	3,20,000	8,000

Item No.	Description	Approximate Qty.	Estimated Value	EMD Amount
19	Staff table with chair Size: 1200Lx600Wx750H mm	01	11,000	275
20	Ground mounted cupboard Size: 900Lx450Wx1800H mm	01	15,000	375
21	Student Belonging rack Size: 900Lx600Wx1800H mm	02	14,000	350
22	Instrument Table Size: 4000Lx750Wx900H mm	01	56,000	1,400
23	Vertical Storage Cupboard Size: 900Lx750Wx1800H mm	01	35,000	875
24	Floor Mounted emergency shower with eye wash	01	12,000	300
25	Laboratory chair for students	24	96,000	2,400
26	Anti-vibration Table Size: 750Lx600Wx750H mm	02	48,000	1,200
27	Wall Storage Cupboard Size: 900Lx300Wx600H mm	04	24,000	600
28	Instrument Table Size: 1500Lx750Wx900H mm	05	1,25,000	3,125
Total			47,87,000	1,19,675

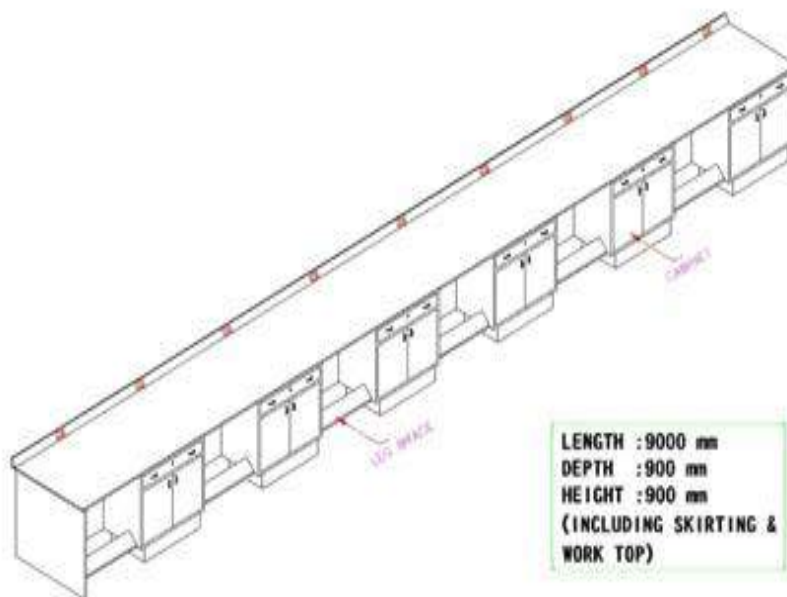
TECHNICAL SPECIFICATION

I. Laboratory Furniture for Department of Life Sciences

Detailed Research Laboratory Furniture Specifications are mentioned below:

Item No.1 – Instrument Work Station Table – 2 Nos.

Nos. (Size: 9000L x 900W x 900H mm)

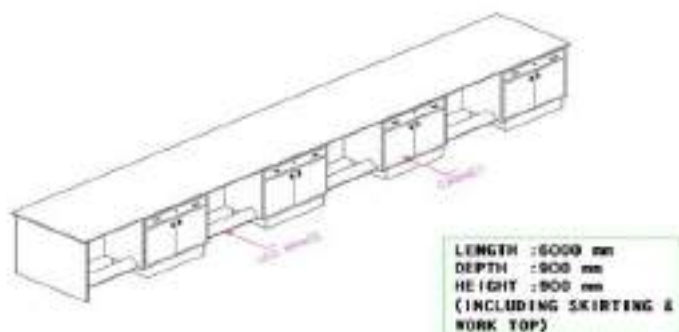


- CABINET BODY** :
- : 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating.
 - : The total number of cabinets required are 6.
 - : The cabinet size should be at least 800Lx600Wx880H provided with top drawer and bottom cupboard with locking arrangements. The cabinet should consist of 1 removable partition made of 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.
- SHUTTERS & DRAWER** :
- : The shutters & drawer fronts will have 20 G pre coated galvanized sheet furnished in epoxy powder coating paint.

- KNEE SPACE PANEL** : Should be made of 9mm 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.
- HARDWARE** : **Drawer slides** – Hafele / Hettich or Equivalent
Hinges – CED coated (cathode electrode deposition) – Hafele/hettich or Equivalent.
Handles - Hafele / Hettich or Equivalent
- ELECTRICAL ARRANGEMENT** : **9** numbers of **15/5** amps **3 pin** sockets cum switch with **Electrical Panel** should be provided.
- WORK TOP** : 18mm (±1mm) thick **Jet Black granite** worktop
Should be provided. The granite edges moulded and groove at bottom should be present to avoid spillage of solvents and liquids on the cabinet.
- BACKING MATERIAL** : The granite should be backed by 6mm thick 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating to avoid direct load on under bench cabinets.

Item No.2 Instrument Work Station Table - 2 Nos.

(Size: 6000L x 900W x 900H mm)

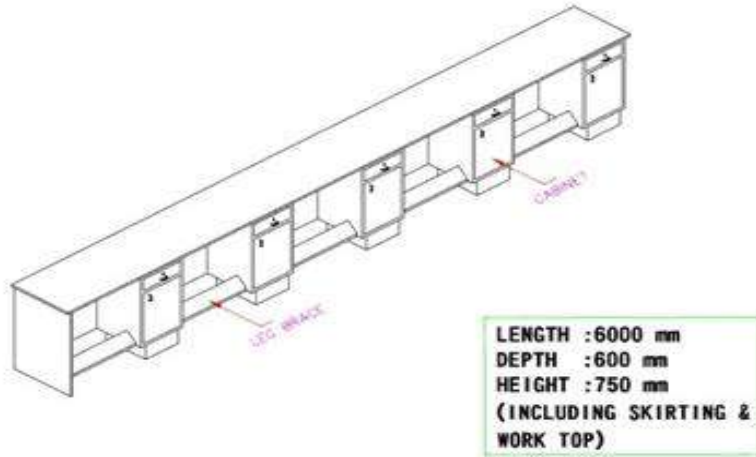


- CABINET BODY** : 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating paint.
- : The required number of total cabinets are 4.

- : The cabinet size should be at least (800Lx600Wx880H) which should be provided with top drawer and bottom cupboard with locking arrangement. It should consist of 1no removable partition made of 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating.
- SHUTTERS & DRAWER** : The shutters & drawer fronts will have 20 G pre coated galvanised sheet furnished in epoxy powder coating paint.
- KNEE SPACE PANEL:** Should be made of 20 G Pre coated galvanised sheet, completely finished with Epoxy powder coating.
- HARDWARE** : **Drawer slides** – Hafele / Hettich or Equivalent
Hinges – CED coated (cathode electrode deposition) – Hafele/hettich or Equivalent.
Handles - Hafele / Hettich or Equivalent
- WORK TOP** : 18mm (±1mm) thick **Jet Black granite** worktop should be provided. The granite edges should be moulded and grooved at bottom to avoid spillage of solvents and liquids on the cabinet.
- BACKING MATERIAL** : The granite should be backed by 6mm thick 20 G Pre coated galvanised sheet, completely Finished with Epoxy powder coating paint to avoid direct load on under bench cabinets.

Item No.3 – Student Work Station Table – 2 Nos.

Nos. (Size: 6000L x 600W x 750H mm)



CABINET BODY :

- : 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating paint.
- : The total number of required cabinets are 5.
- : The cabinet size is should be at least 450Lx 500W x 880H which should be provided with top drawer and bottom cupboard with locking arrangement. It should consist of 1no removable partition made out of 16mm 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

SHUTTERS & DRAWER :

- : The shutters & drawer fronts will have 20 G pre coated galvanized sheet furnished in epoxy powder coating paint.

KNEE SPACE PANE :

- : Should be made of 9mm 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

HARDWARE :

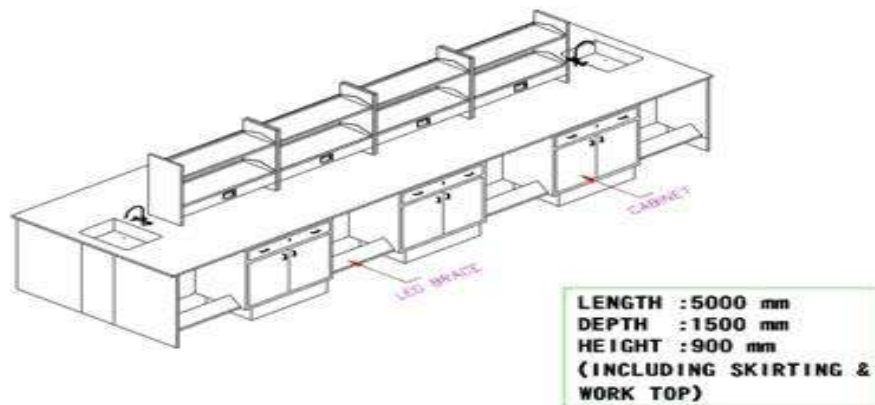
- : **Drawer slides** – Hafele / Hettich or Equivalent
- Hinges** – CED coated (cathode electrode deposition) – Hafele/hettich or Equivalent.
- Handles** - Hafele / Hettich or Equivalent

WORK TOP : 18mm (± 1 mm) thick **Jet Black granite** worktop
Should be provided. The granite edges moulded and groove at bottom should be present to avoid spillage of solvents and liquids on the cabinet.

BACKING MATERIAL : The granite should be backed by 6mm thick 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating to avoid direct load on under bench cabinets.

Item No. 4 - Island Table Work Station - 4 Nos.

(Size: 5000L x 1500W x 900H mm)



CABINET BODY : 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

: The total number of cabinets required are 6.

: The size of the cabinet should be at least 800L x 600Wx 880H which should be provided with top drawer and bottom cupboard with locking arrangement. It

should consist of 1no removable partition made of 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

SHUTTERS & DRAWER : The shutters & drawer fronts will have 20 G pre coated galvanized sheet furnished in epoxy powder coating paint.

KNEE SPACE PANEL : Should be made of 9mm 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating.**HARDWARE**
: **Drawer slides** – Hafele / Hettich or Equivalent

Hinges – CED coated (cathode electrode deposition) – Hafele/hettich or Equivalent.

Handles - Hafele / Hettich or Equivalent

RACKS All Island Benches should have two tire Reagent racks which should be made out of 16mm thick 20 G galvanized sheet, completely finished with Epoxy powder coating

with full round post form finish. ***The loading levels of the Reagent Rack are to be lined with fiber glass reinforced polyester resin of 1mm thickness for enhanced chemical resistance.***

: Plug points for electrical connections (8 nos 16/6 Amp power sockets) should be provided.

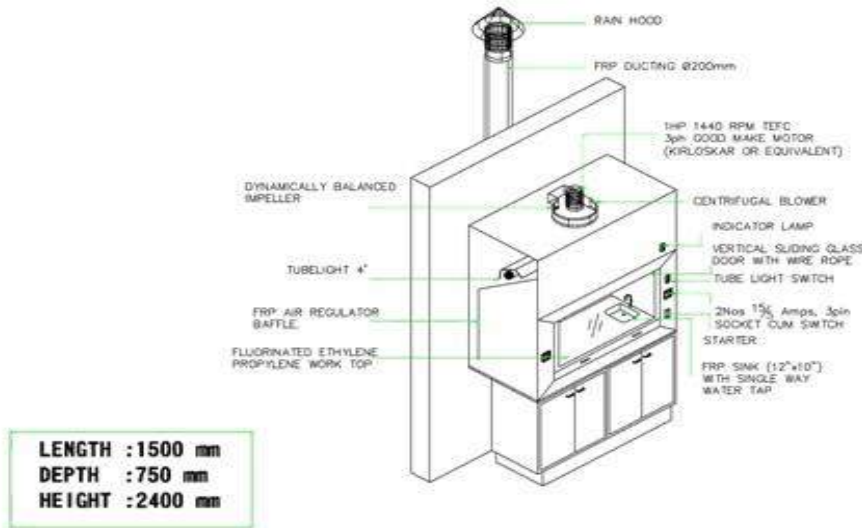
AMENITIES : **2 No's of Polypropylene (24"x18")**
With 3 way water tap should be provided.

WORK TOP : 18mm (±1mm) thick **Jet Black granite** worktop
Should be provided. The granite edges moulded and groove at bottom should be present to avoid spillage of solvents and liquids on the cabinet.

BACKING MATERIAL : The granite should be backed by 6mm thick

20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating to avoid direct load on under bench cabinets.

Item No.5- Fume Hood – 2 Nos.



TYPE : AUTO Bypass, Constant Volume Type

TESTING STANDARD:

ASHRAE 110:1995 (American Society of Heating, Refrigerating and Air-Conditioning Engineers)

Over All Dimension	1500L x 750W x 2400H in mm
Hood Dimension	1500L x 750W x 1500H in mm
Base Cabinet Dimension	1500L x 750W x 900H in mm
Bed Size	1350 x 600 in mm

Material of Construction: (External)	18mm thick 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating. Melamine resin lamination with minimum thickness of 0.8mm pressed at high temperature and pressure (using hydraulic hot press) with full round post form finish. Edges are sealed with 2mm thick (Rehau or equivalent) PVC edge banding and trimming should be present for aesthetic appeal.
Internal Construction	Fume hood internal shall be of Phenolic Resin 6mm thickness. The phenolic panel shall a minimum flexure strength of 1500 psi, with a flame spread less than 25 as per ASTM.
Door	Single, vertical sliding, concealed type door, balanced with counter weights, sash weights and wire rope etc.
Powered by	1HP 1440RPM TEFC 3ph Good make Motor (Kirloskar or equivalent).
Ducting	Rigid ducting of FRP of 200mm diameter 4mm thick rigid FRP pipe should be provided with suitable rain-hood. Additional charges apply for per sq. meter and quoted separately.
Baffle	The baffles shall be fabricated using 6mm thick liner of Phenolic resin. At least three slots shall be provided for effective distribution of flow of air. They should be placed at a distance of approximately 5cm from the back liner and shall be removable for cleaning.
Impeller	Dynamically balanced FRP Impeller
Centrifugal Blower	Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower should be designed to give a face velocity at safe working height as per the international safe velocity norms (ANSI). The exported face velocity at open sash should be 100FPM. The blower body FRP UV treated high density and chemical (corrosion) resistant should be mounted on a metallic stand. Individual blower clusters for each fume hood.

Sash	The sash should be of glass with vertical rising frame. The bottom of the sash frame should have a full length handle. The sash should be counter balanced with a weights to prevent titling and binding during operation. The glass panel should be 5mm toughened glass.
Suction Expected	800-1000 cfm
Color	IVORY/BLUE
Flooring	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 15mm thick granite on 3 sides should be provided.

Chemical Storage Base Cabinet:

CARCASS

: The base cabinets should consist of 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

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

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

SHUTTERS

: The shutters & drawer fronts will have 20 G pre coated galvanized sheet furnished in epoxy powder coating paint.

CHEMICAL RESISTANT COATING

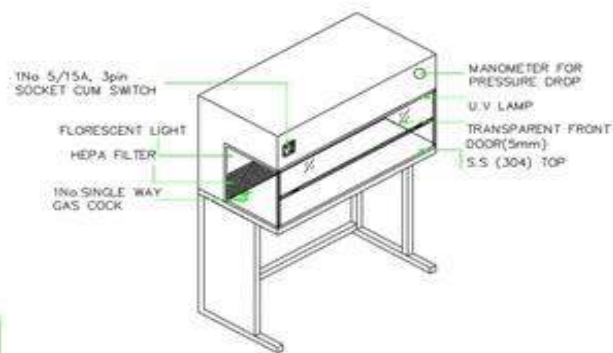
: The cabinet should consist of chemical resistant PP-FRP Lining on removable partition and inner walls.

AMENITIES (Included):

Lighting	1 No. 4 feet Tube light of 20 volts will be provided.
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Electrical Arrangements	The hood super structure shall be fully wired. It also has 2No's . Electrical sockets and switches of (230V, 5/15A, 50HZ)
Cable Entering port	For easy access of cable of from fume hood to electrical sockets.
Sink & Water tap	1 No of Polypropylene Sink (12"x10") with single way water tap will be provided.

Item No. 6- Laminar Air Flow – 2 Nos.



LENGTH :1200 mm
DEPTH :600 mm
HEIGHT :1800 mm

- DIRECTION OF FLOW** : **VERTICAL:** 1200Lx 600W x 1800H mm
- CLEANLINESS** : Class 100 ISO 5 for particle sizes 0.5um<353 of air at Both at rest & operation condition as per ISO 14644-1 (ISO 5 replaces class 100 US FED STD 209 E)
- PARTICLE RETENTION** : 0.3 Micron & Above
- Noise Level** : 65 Decibel on "A" Scale ±5
- Velocity** : 90 Feet / Minute ±20
- Worktable** : IS 304 Grade Stainless Steel Table
- Front door** : 5mm clear acrylic-Folded Type.

U V lamp	:	30 Watt 3 Feet, Make-PHILIPS-1 NO.
Illumination	:	36 Watt 3 Feet, Fluorescent tube with diffusers-2 No's.
Pressure	:	Inclined Acrylic Manometer 0-25mm range.
Other Accessories	:	5/15 Amp power point, Gas inlet & Castor Wheels.
Power supply	:	230V, Single Phase, 50HZ

HEPA FILTER:

SIZE	:	48"X24"X6"-1 No
Media	:	Ultra clean glass fiber paper imported
Separators	:	Fine clean glass fiber paper imported
Retention	:	0.3 Micron
Efficiency	:	99.97%
Pressure Drop	:	16mm WG

PRE FILTER:

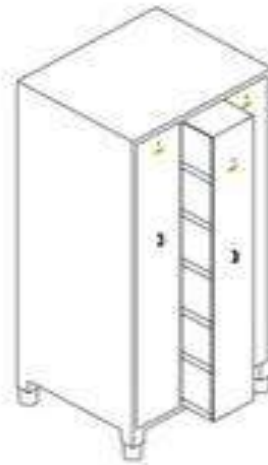
SIZE	:	800X400X65 MM
Media	:	Ultra clean glass fiber paper imported
Retention	:	10-15 Micron
Efficiency	:	90%
Pressure Drop	:	6mm WG

MATERIAL CONSTRUCTION : 18 gauge electro galvanized sheet with epoxy polyester powder coating.

Blower Assembly : DIDW type blower system, which should consist of dynamically balanced aluminum centrifugal impeller driven by an 1/3 HP, Single Phase, 1440 RPM motor, enclosed in an PU coated GI casing suitable suspended in a pair spring & connected to the filter chamber through flexible canvas duct.

Item No.7- Vertical Storage Cupboard –2 Nos.

(Size: 900L x 750W x 1800H mm)



**LENGTH : 900 mm
DEPTH : 750 mm
HEIGHT : 1800 mm**

CABINET BODY : 20 G Pre coated galvanized sheet,
Completely Finished with Epoxy powder coating.

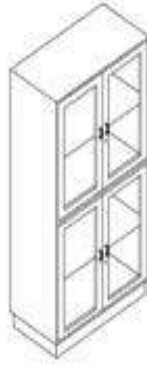
HORIZONTAL PARTITION : **6 No's**

VERTICAL PARTITION : **3 No's**

The vertical drawer should have wheels for smooth running purpose. An index card should be provided for identification of materials.

Item No.8- Ground Mounted Cupboard – 2 Nos.

(Size: 900L x 450W x 1800H mm)



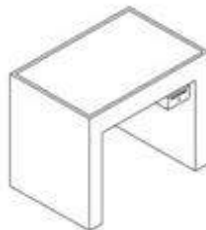
LENGTH :900 mm
DEPTH :450 mm
HEIGHT :1800 mm

CABINET BODY : 16mm thick 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.

It should have a front glass door and 4 nos. of horizontal partitions with locking system.

Item No.9- Anti Vibration Table – 2 Nos.

(Size: 900L x 600W x 750H mm)



LENGTH :900 mm
DEPTH :600 mm
HEIGHT :750 mm

CABINET BODY : 16mm thick 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating

The inner table should be an assembly of rubber pads duly fixed on each contact surface of the stone to dampen the minute vibration. The outer work table should be positioned independently on the inner table with drawer. Part of the top surface

should be fixed with Granite Slab where the balance can be mounted. Rubber pads should be used to absorb the pulsating vibration coming from the floor.

Item No.10 Emergency Shower with Eye Wash- 2 Nos.



COMBINATION: Should provide a complete safety for immediate first aid. In one location both Eye/face wash function & drench shower should 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.

Item No.11- Wall Storage Cupboard – 10 Nos.

(Size: 900L x 300W x 600H mm)



CABINET BODY

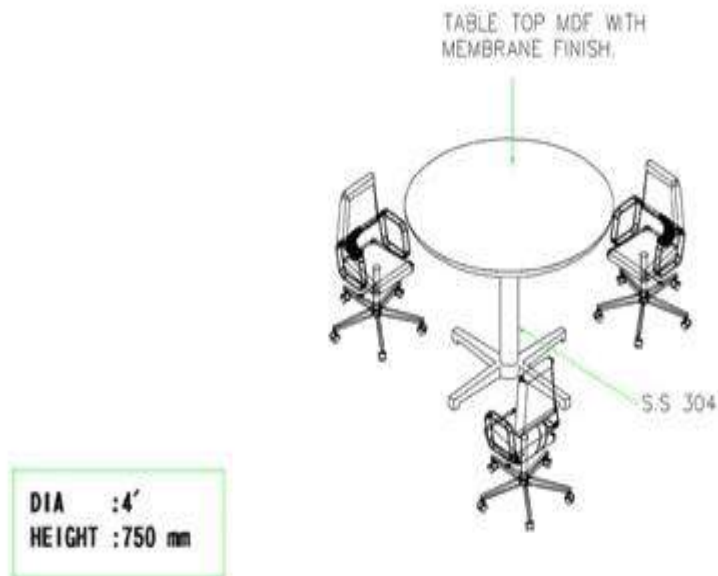
LENGTH : 900 mm
DEPTH : 300 mm
HEIGHT : 600 mm

: 16mm thick 20 G Pre coated galvanized sheet,
Completely finished with Epoxy powder coating..

It should have a front glass shutter. One no. of horizontal adjustable partition should be provided with locking arrangement. The unit should be fixed on the wall through the eye-let holes.

Item No.12- Round Table with 3 Chairs- 2 Nos.

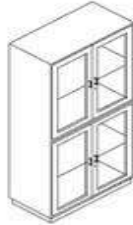
**(Equivalent to – WIPRO/FEATHERLITE/GODREJ brand)
(Size: 4ft (dia) x 750H mm)**



Specifications: Table top should be made up of MDF with membrane finish. Understructure should be made of stainless steel with grade S305.

Item No.13- Ground Mounted Cupboard- 2 Nos.

(Size: 900L x 450W x 1800H mm)



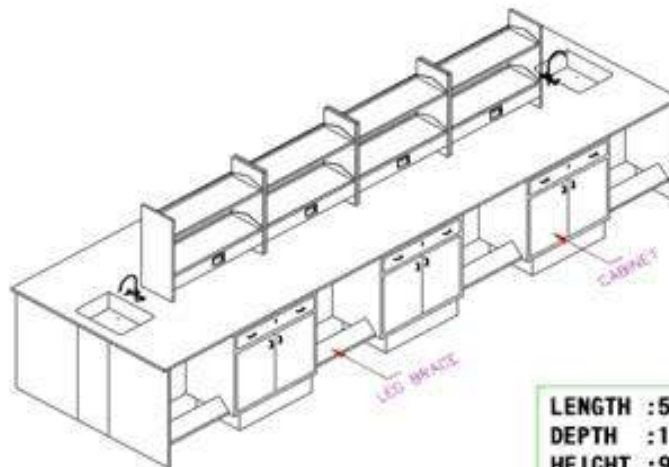
LENGTH : 900 mm
DEPTH : 450 mm
HEIGHT : 1800 mm

CABINET BODY : 60 – 80 micron MOC in GI with epoxy powder coated finishing.

It will have front glass door and 4 nos. of horizontal partitions will be provided with locking system.

Item No.14- Island Table Work Station- 3 Nos.

(Size: 3000 L X 1500W X 900Hmm)



LENGTH : 5000 mm
DEPTH : 1500 mm
HEIGHT : 900 mm
(INCLUDING SKIRTING & WORK TOP)

CABINET BODY	:	<p>20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.</p> <p>The total number of cabinets required are 6.</p> <p>The size of the cabinet should be at least 800L x 600Wx 880H which should be provided with top drawer and bottom cupboard with locking arrangement. It should consist of 1no removable partition made of 20 G Pre coated galvanized sheet, completely finished with Epoxy powder coating.</p>
SHUTTERS & DRAWER	:	The shutters & drawer fronts will have 20 G pre coated galvanized sheet furnished in epoxy powder coating paint.
KNEE SPACE PANEL	:	Should be made of 9mm 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating.
HARDWARE	:	<p>Drawer slides – Hafele / Hettich or Equivalent</p> <p>Hinges – CED coated (cathode electrode deposition) – Hafele/hettich or Equivalent.</p> <p>Handles - Hafele / Hettich or Equivalent</p>
RACKS	:	<p>All Island Benches should have two tire Reagent racks which should be made out of 16mm thick 20 G galvanized sheet, completely finished with Epoxy powder coating</p> <p>with full round post form finish. <i>The loading levels of the Reagent Rack are to be lined with fiber glass reinforced polyester resin of 1mm thickness for enhanced chemical resistance.</i></p>
AMENITIES	:	<p>Plug points for electrical connections (8 nos 16/6 Amp power sockets) should be provided.</p> <p>2 No's of Polypropylene (24"x18") With 3 way water tap should be provided.</p>
WORK TOP	:	18mm (±1mm) thick Jet Black granite worktop

Should be provided. The granite edges moulded and groove at bottom should be present to avoid spillage of solvents and liquids on the cabinet.

BACKING MATERIAL : The granite should be backed by 6mm thick 20 G Pre coated galvanized sheet, completely Finished with Epoxy powder coating to avoid direct load on under bench cabinets.

Item No.15 - Instrument Work Station Table – 10 Nos.

(Size: 6000 mm LX 900mm DX900mmH)

- Power module at the back side for the full length of the table.
- Individual power module having 2 nos. of 5/15 amps power point with switches.
- Power point fitted below the work top in lieu of the drawers.
- 5 power points to be provided
- Drawers continuous



Item No.16: Lab Stool with back -12 Nos.

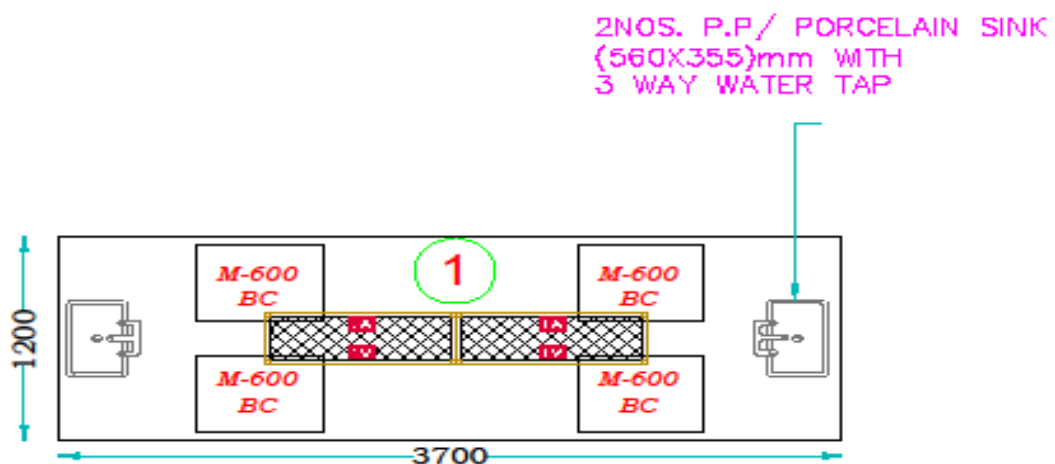
- Black rolling stool
- Comfortable and generously cushioned stool
- Pneumatic lift with back
- Easy-to-clean vinyl, making for easy maintenance
- Features seat height and depth adjustment and 360° swivel
- Works well in healthcare environments where space is minimal



II. Laboratory Furniture for Department of Materials Science

Item No.17 - Island Table - 3 Nos.

SIZE: 3700L x 1200W x 900H mm



'C' FRAME:

- * Worktops shall be supported by heavy duty steel frame work.
- * The frame shall be of rectangular box with a wall thickness of 16 gauge or better, degreased and powder coated for smooth finish and protection.
- * The dimensions details of frame work is vertical member of minimum 60x40mm, Horizontal top member 50x40 mm & horizontal bottom member 80x40mm
- * The frame work shall have adjustable threaded foot of nonabrasive material such as tough plastic / nylon
- * The frame design shall be of cantilever type with sliding facility for cabinets.

UNDER BENCH CABINET:

In zero galvanized iron (GI) construction, duly finished with epoxy powder coating of 60-80 microns. Door hinges shall be in CED (Cathode Electro deposition) construction of Hettich/Hafele make. Shutter shall have 90° Deg. Opening cabinet shall be provided with one adjustable shelf. Drawer shall be provided with telescopic channels slide rails with ball bearings Hettich/Hafele make. All fastners shall be in nickel plated steel / SS construction.

CABINET SHUTTERS & DRAWER FRONTS:

The shutters and drawers fronts will Have chemical resistant **PVC THERMO FOIL** face **E1/E2** grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches

SINK:

- * It shall be of P.P. sink, molded as one piece
- * The dimensions of the sink are 560x355 mm & the sink should not have any sharp corners inside
- * Sink color shall be black
- * All sinks shall be supplied with bottle trap.

REAGENT RACK:

External frame made out of epoxy coated mild steel and inside panel is of wired glass which provides stability and good looks.

SERVICE PILLAR BOX:

Cabinet body shall be made out of 18mm thick BWP plywood laminated with 0.9 mm thick melamine on both sides. The lamination is done with hot press with minimum of 90 tones pressure. All exposed edges are lipped not less than 3 mm to protect from moisture and

insects. The lipping is machine applied with hot melt glue at a temperature of 205 degree Celsius are above.

GRANITE WORKTOP:

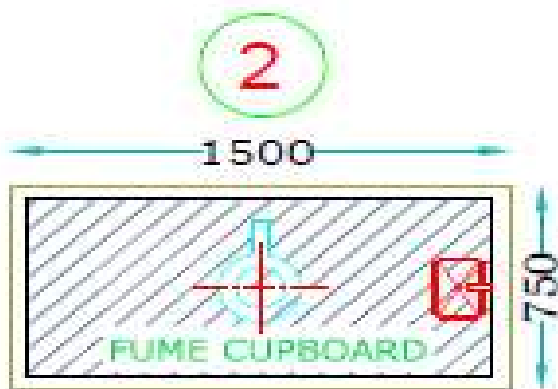
- * Worktop shall be made of Jet granite of minimum 18±1 mm thickness
- * The exposed edges shall be rounded molded

PLYBACK:

- * 9 mm thick BWP (Boiled Water Proof) Ply back will be provided.

Item No.18 – Fume Cupboard- 2 Nos.

SIZE: 1500L x 750W x 2400H mm



TESTING STANDARD:

ASHARE 110:1995 (American society of heating, Refrigerating and Air-conditioning Engineers)

The Bidder must have provide valid third party test certificate for fume hoods.

CERTIFICATION: SEFA-8(Scientific Equipments and furniture Association)

The Bidder must have valid SEFA Executive membership certificate & SEFA third party test certificate

Dimension	1500L X 750W X 2400 H in mm
Bed size	1350 x 600 in mm
Material of construction a) Carcass	16mm thick melamine resin filled Laminated flat press board, sealed by PVC edge tapes.

b) Shutters	The shutters and drawers fronts will Have chemical resistant PVC THERMO FOIL face E1/E2 grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches PVC
Door	Single. Vertical sliding, concealed type door, balanced with counter weights and wire rope etc.
Powered by	1Hp 1380RPM TEFC 3ph good make motor (In – built)
Ducting	Rigid ducting of FRP of 200 mm dia. 10 feet 4mm thick rigid FRP pipe will be provided with suitable rain-hood.
Baffle	A stable, non – adjustable with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle shall be spaced out from the back liner and shall be removable foe cleaning.
Impeller	Dynamically balanced FRP Impeller
Baffled by	3MM thick FRP sheet
Centrifugal Blower	Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower is designed to give a face velocity at safe working height as per the international safe velocity norms (ANSI). The exported face velocity at open sash is 100FPM. The exported body id FRP UV treated high density and chemical (corrosion) resistant and is mounted on a metallic stand.
Casing	6MM thick FRP Bisphenol ‘A’ fumerate Resin.
Coupling	Direct
Sash	The sash shall be of glass with vertical rising frame. The bottom of the sash frame shall have a full length handle. The sash be counter balanced with a weights to prevent titling and binding during operation. The glass panel shall be 5mm Toughened glass.
Bottom Arrangements	16mm thick melamine resin filled Laminated flat press board,
a) Carcass	sealed by PVC edge tapes.
b) Shutters	The shutters and drawers fronts will Have chemical resistant PVC THERMO FOIL face E1/E2 grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches PVC
Suction Expected	800-1000 cfm
Color	IVORY/BLUE
Work Top	The worktop is made of intense chemical resistant 25 microns thick FEP (Fluorinated Ethylene Propylene) Supported on a backing material of 16mm thickness with a pressure sensitive acrylic adhesive that adheres to most surfaces.

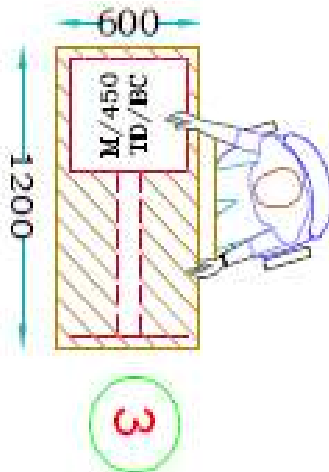
	Skirting of 15mm thick granite on 3 sides will be provided.
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AMENITIES (INCLUDED):

Lighting	1 No. of 4' Tube light will be provided.
Electrical Arrangements	The hood super structure shall be fully wired. It also has 2 No's. Electrical Sockets and switches of (230V, 5/15A, 50HZ)
Cable Entering port	For easy access of cable of from fume hood to electrical sockets.
Sink & water tap	1 No of FRP Sink (12"x10") with single way water tap will be provided.

Item No.19 – Staff Table with Chair- 1 No.

SIZE: 1200L x 600W x 750H mm



'C' FRAME WORK:

- * Worktops shall be supported by heavy duty steel frame work.
- * The frame shall be of rectangular box with a wall thickness of 16 guage or better, degreased and powder coated for smooth finish and protection.
- * The dimensions details of frame work is vertical member of minimum 60x40mm, Horizontal top member 50x40 mm & horizontal bottom member 80x40mm

- * The frame work shall have adjustable threaded foot of nonabrasive material such as tough plastic / nylon
- * The frame design shall be of cantilever type with sliding facility or cabinets.

UNDER BENCH CABINET:

In zero galvanized iron (GI) construction, duly finished with epoxy powder coating of 60-80 microns. Door hinges shall be in CED (Cathode Electro deposition) construction of Hettich/Hafele make. Shutter shall have 90° Deg. Opening cabinet shall be provided with one adjustable shelf. Drawer shall be provided with telescopic channels slide rails with ball bearings Hettich/Hafele make. All fastners shall be in nickel plated steel / SS construction.

CABINET SHUTTERS & DRAWER FRONTS:

The shutters and drawers fronts will Have chemical resistant PVC THERMO FOIL face E1/E2 grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches

GRANITE WORKTOP:

- * Worktop shall be made of granite of minimum 18±1 mm thickness
- * The exposed edges shall be rounded molded

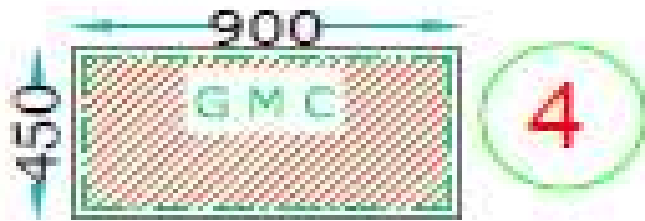
PLYBACK:

- * 9 mm thick BWP (Boiled Water Proof) Ply back will be provided.

REVOLVING CHAIR: It is designed on the principle of human engineering. Thoughtfully contoured back-rest with special lumbar cushion to prevent muscular tension. It will have extra wide base for stability. Adjustable seat – height to suit individual needs with arm rest and wheel castors. It will also have firm, yielding, well proportioned seat to distribute body weight evenly and eliminate fatigue. Frame structure will made of Gauge M.S. tubes. Specially designed and painted with Bisphenol resin.

Item No.20 – Ground Mounted Cupboard– 1 No.

SIZE: 900L x 450W x 1800H mm



MATERIAL CONSTRUCTION:

CARCASS:

16mm thick melamine resin filled Laminated flat press board, sealed by PVC edge seals.

CABINET SHUTTERS & DRAWER FRONTS:

The shutters and drawers fronts will Have chemical resistant **PVC THERMO FOIL** face **E1/E2** grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches .

Item No.21 – Student Belonging Rack- 2 Nos.

SIZE: 900L x 450W x 1800H mm

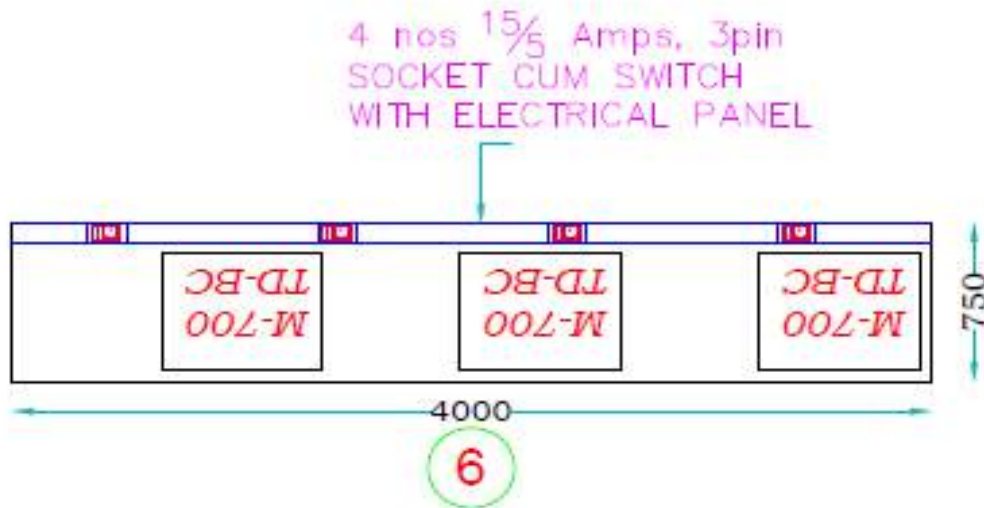


MATERIAL CONSTRUCTION:

16mm thick melamine resin filled Laminated flat press board, sealed by PVC edge seals.

Item No.22 - Instrument Table- 1 No.

SIZE: 4000L x 750W x 900H mm



'C' FRAME :

- * Worktops shall be supported by heavy duty steel frame work.
- * The frame shall be of rectangular box with a wall thickness of 16 guage or better, degreased and powder coated for smooth finish and protection.
- * The dimensions details of frame work is vertical member of minimum 60x40mm, Horizontal top member 50x40 mm & horizontal bottom member 80x40mm
- * The frame work shall have adjustable threaded foot of nonabrasive material such as tough plastic / nylon
- * The frame design shall be of cantilever type with sliding facility or cabinets.

UNDER BENCH CABINET:

- * In zero galvanized iron (GI) construction, duly finished with epoxy powder coating of 60-80 microns. Door hinges shall be in CED (Cathode Electro deposition) construction of Hettich/Hafele make. Shutter shall have 90° Deg. Opening cabinet shall be provided with one adjustable shelf. Drawer shall be provided with telescopic channels slide rails with ball bearings Hettich/Hafele make. All fastners shall be in nickel plated steel / SS construction.

CABINET SHUTTERS & DRAWER FRONTS:

The shutters and drawers fronts will Have chemical resistant **PVC THERMO FOIL** face **E1/E2** grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches

GRANITE WORKTOP:

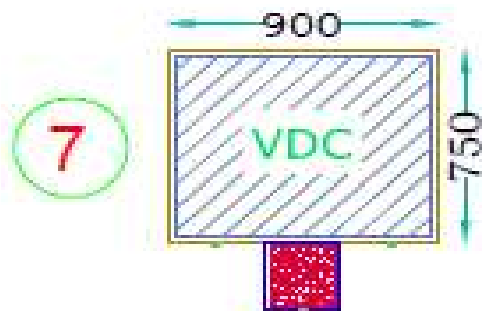
- * Worktop shall be made of Jet granite of minimum 18±1 mm thickness
- * The exposed edges shall be rounded molded

PLYBACK:

- * 9 mm thick BWP (Boiled Water Proof) Ply back will be provided.

Item No.23 – Vertical Storage Chamber– 1 No.

SIZE: 900L x 750W x 1800H mm



MATERIAL CONSTRUCTION

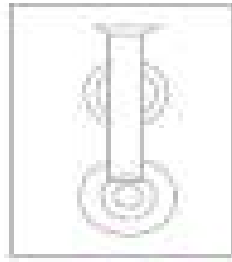
20 Gauge Electro galvanized sheet with Epoxy polyester powder coating.

HORIZONTAL PARTITION: 6 No's

VERTICAL PARTITION: 3 No's

The vertical drawer will have wheels for smooth running purpose. An index card will be provided for identification of materials. Each drawer will have locking facility.

Item No.24 – Floor Mounted Emergency Shower with Eye Wash - 1 No.



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

Item No.25 – Laboratory Chair for Students- 24 Nos.



Item	Standard Features	Standard chair measurement
Lab Chair	<ul style="list-style-type: none"> -Seat Height Adjustment -Back rest tilt adjustment -Black Knob for height adjustment -All PU form on the back & seat All PU Base -diameter:640 mm 	<ul style="list-style-type: none"> Seat Height Range: 580 – 835mm Seat Width: 450mm Seat Deep: 430mm Ergonomic Design Back Height: 300mm Back Width: 415mm

	Fitted with PU foot – ring And chrome gas – lift. Black bush. PU Cushion and back color: Black	Comfortable Lumbar support PU Foam thickness: 35mm Base:640mm 5-Star PU base
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Item No.26 – Anti Vibration Table- 2 Nos.

SIZE: 750L x 600W x 750H mm



MATERIAL CONSTRUCTION:

16mm thick melamine resin filled Laminated flat press board, sealed by PVC edge seals.

The inner table will be an assemble of rubber pads duly fixed on each contact surface of the stone to dampen the minutes vibration. The outer work table will be positioned independently on the inner table with drawer. Part of the top will be fixed with granite slab where the balance can be mounted. The objective of using these rubber pads is to absorb the pulsating vibration coming from the floor.

Item No.27 – Wall Storage Cupboard- 4 Nos.

SIZE: 900L x 300W x 600H mm



MATERIAL CONSTRUCTION:

CARCASS:

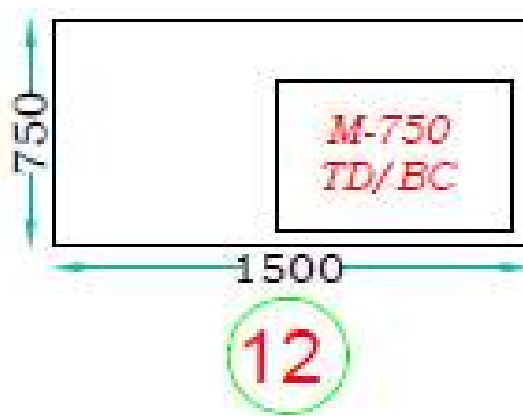
20 gauge electro galvanized sheet with epoxy polyester powder coating.

CABINET SHUTTERS FRONTS:

The shutters fronts will Have chemical resistant **PVC THERMO FOIL** face **E1/E2** grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches

Item No.28 – Instrument Table– 5 Nos.

SIZE: 1500L x 750W x 900H mm



'C' FRAME :

- * Worktops shall be supported by heavy duty steel frame work.
- * The frame shall be of rectangular box with a wall thickness of 16 guage or better, degreased and powder coated for smooth finish and protection.
- * The dimensions details of frame work is vertical member of minimum 60x40 mm, Horizontal top member 50x40 mm & horizontal bottom member 80x40 mm
- * The frame work shall have adjustable threaded foot of nonabrasive material such as tough plastic / nylon
- * The frame design shall be of cantilever type with sliding facility or cabinets.

UNDER BENCH CABINET:

In zero galvanized iron (GI) construction, duly finished with epoxy powder coating of 60-80 microns. Door hinges shall be in CED (Cathode Electro deposition) construction of Hettich/Hafele make. Shutter shall have 90° Deg. Opening cabinet shall be provided with one adjustable shelf. Drawer shall be provided with telescopic channels slide rails with ball bearings Hettich/Hafele make. All fastners shall be in nickel plated steel / SS construction.

CABINET SHUTTERS & DRAWER FRONTS:

The shutters and drawers fronts will Have chemical resistant **PVC THERMO FOIL** face **E1/E2** grade core material the Urethane acrylic coating on top of thermo foil is resistant to deformation and scratches

GRANITE WORKTOP:

- * Worktop shall be made of Jet granite of minimum 18±1 mm thickness
- * The exposed edges shall be rounded molded

PLYBACK:

- * 9 mm thick BWP (Boiled Water Proof) Ply back will be provided.

Compliance Statement to specifications of the Laboratory furniture

(Compliance with specification column is to be filled up by the bidder stating YES/NO as the case may be)

Sl. No.	Specifications	Requirements	Compliance with Specifications (Y/N)

MODEL BANK GUARANTEE FORMAT FOR FURNISHING EMD

Whereas(hereinafter called the “tenderer”) has submitted their offer dated..... for the supply of(hereinafter called the “tender”) against the purchaser’s tender enquiry No. KNOW ALL MEN by these presents that WE of having our registered office at..... are bound unto(hereinafter called the “Purchaser) in the sum of..... for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this..... day of2017.

THE CONDITIONS OF THIS OBLIGATION ARE:

- (1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including 45 days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date

.....
(Signature of the authorized officer of the Bank)

.....
Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

FORM OF PERFORMANCE SECURITY (GUARANTEE) BY BANK

1. This deed of Guarantee made this day of _____ between Bank of _____ (hereinafter called the "Bank") of the one part, and Central University of Tamil Nadu, Thiruvavur (hereinafter called "the Purchaser") of the other part.

2. Whereas the Purchaser has awarded the contract for Supply and Installation of _____ (name of the furniture) (hereinafter called the contract) to _____ (hereinafter called the Supplier); (Name of the Supplier)

3. AND WHEREAS the Supplier is bound by the said Contract to submit to the Purchaser a Performance Security for a total amount of Rs. _____ (Amount in figures and words).

4. Now, I/we the undersigned, being fully authorized to sign and to incur obligations for and on behalf of and in the name of _____ (Full name of Bank), hereby declare that the said Bank will guarantee the Purchaser the full amount of Rs. _____ (Amount in figures and words) as stated above.

5. After the Supplier has signed the aforementioned Contract with the Purchaser, the Bank is engaged to pay the Purchaser, any amount up to and inclusive of the aforementioned full amount upon written order from the Purchaser to indemnify the Purchaser for any liability of damage resulting from any defects or shortcomings of the Supplier under the Contract mentioned above, whether these defects or shortcomings are actual or estimated. The Bank will deliver the money required by the Purchaser immediately on demand without delay without reference to the Supplier and without the necessity of a previous notice or of judicial or administrative procedures and without it being necessary to prove to the Bank the liability or damages resulting from any defects or shortcomings of the Supplier. The Bank shall pay to the Purchaser any money so demanded notwithstanding any dispute/disputes raised by the Supplier in any suit or proceedings pending before any Court relating thereto and the liability under this guarantee shall be absolute and unequivocal.

6. This Guarantee is valid for a period of thirty six months from the date of signing. (Initial period for which this Guarantee will be valid must be for at least thirty (30) days longer than the anticipated expiry date of warranty period).

7. At any time during the period in which this Guarantee is still valid, if the Purchaser agrees to grant a time extension to the Supplier or if the Supplier fails to complete the

work within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages as stated under Para 5 above, the Bank shall extend this

Guarantee under the same conditions for the required time on demand by the Purchaser and at the cost of the Supplier.

8. The Guarantee hereinbefore contained shall not be affected by any change in the Constitution of the Bank or of the Supplier.

9. The neglect or forbearance of the Purchaser in enforcement of payment of any moneys, the payment whereof is intended to be hereby secured or the giving of time by the Purchaser for the payment hereof shall in no way relieve the bank of its liability under this deed.

10. The expressions "the Purchaser", "the Bank" and "the Supplier" hereinbefore used shall include their respective successors and assigns.

In witness whereof I/We of the bank have signed and sealed this guarantee on the _____

_____ day of _____ (Month & Year) being herewith duly authorized.

For and on behalf of the _____ Bank.

Signature of Authority

Bank official Name: Designation:

Stamp/Seal of the Bank:

Signed, sealed and delivered for and on behalf of the Bank by the above named _____ in the presence of:

Witness 1

Signature

Name

Address

Witness 2

Signature

Name

Address

Declaration

We hereby undertake that there are _____ pages, serially numbered, in the submitted tender including the supporting documents.

(Please number all the pages including blank page, if any)

Signature and seal of the bidder