



THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES

(An Autonomous Law University established by the West Bengal Act No. IX of 1999)

"Dr. Ambedkar Bhavan", 12, LB Block, Sector III, Salt Lake City, Kolkata - 700 106

Phone: (033) 2335 7397/ 0510/ 2811, 2569 4700 to 30 <> Fax: (033) 2335 7422/ 0511

E-mail: ao@nujs.edu <> Website: www.nujs.edu

Ref. No.: WBNUJS/PC/NIT/FSLAB/16/2023-24

DATE: 26.05.2023

NOTICE INVITING TENDERS

The West Bengal National University of Juridical Sciences, an Autonomous Law University established under WBNUJS Act, 1999 (West Bengal Act IX of 1999) adopted by the West Bengal Legislature in July, 1999. The University was notified under Clause (f) of Section 2 of the UGC Act, 1956 in August 2004 and granted affiliation by the Bar Council of India is in the process for procurement of the following item through the Offline Tenders under two cover bidding system (Technical+ Financial).

Item Description
SUPPLY, FITTING, FIXATION OF FURNITURE FOR WET AND DRY LABORATORY OF FORENSIC SCIENCE

The potential and eligible bidders are required to visit the University website (<https://www.nujs.edu/home/tenders/>) for submission the bid with proper documentation with in bidding schedule. Interested Bidders are also requested to check the detailed corrigendum time to time through the University Tenders Portal which may be uploaded against this tender.

Critical Dates of Tender

Sl.No.	Particulars	Date	Time
1.	Date of Online Publication/ Download of Tender	26.05.2023	1.00 pm
2.	Bid Submission Start Date	26.05.2023	1.00 pm
3.	Bid Submission Close Date	24.06.2023	3.00 pm
4.	Opening of Technical Bids	26.06.2023	
5.	Opening of Financial Bids	To be communicated later	
6.	Validity of the Bid Documents	180 Days from the date of opening	
7.	Pre-Bid Meeting Date & Time	07.06.2023 – 12.00 noon	

All quotation and manual bid should be submitted in the respective section of The W.B. National University of Juridical Sciences.


Raja Chakraborty
Registrar

Address for the submission:

The Registrar

THE W.B. NATIONAL UNIVERSITY OF JURIDICAL SCIENCES

"DR. AMBEDKAR BHAVAN"

12, LB BLOCK, SECTOR-III, SALT LAKE CITY, KOLKATA- 700 106





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INSTRUCTION TO THE BIDDER

As per the decision of the University Authority, this tender document has been published on the University website (<https://www.nujs.edu/home/tenders/>). The bidders are required to submit hard copies of their bids at the respective section of the University.

IMPORTANT INFORMATION

NIT REF. NO.	:	Ref. No.: WBNUJS/PC/NIT/FSLAB/16/2023-24	
ITEM DESCRIPTION	:	SUPPLY, FITTING, FIXATION OF FURNITURE FOR WET AND DRY LABORATORY OF FORENSIC SCIENCE	
PERIOD OF STANDARD WARRANTY	:	3 YEARS ONSITE COMPREHENSIVE	
TENDER TYPE	:	OPEN TENDER	
NO. OF COVER	:	TWO (02) COVER SYSTEM	
DATE OF PUBLICATION OF TENDER	:	26.05.2023	
LAST DATE OF BID SUBMISSION	:	24.06.2023	
DATE OF OPENING OF TECHNICAL BIDS	:	26.06.2023	
PRE-BID MEETING DATE & TIME	:	07.06.2023 at 12.00 noon.	
EARNEST MONEY DEPOSIT (EMD is refundable to the unsuccessful bidders against the application made by the unsuccessful bidders after the financial bid evaluation, No interest shall be paid against the earnest money deposited).	:	AMOUNT	2% of the quoted value
		Online receipt of EMD through SBI Collect Payment Gateway as per instruction given below.	

All are requested to follow the Instructions for making the payment through SBI Collect -

Access <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

Select Category as 'Educational Institutions'

Select the Institutions Name as 'The West Bengal National University of Juridical Sciences'

Select the Payment Category as 'Earnest Money Deposit'

Please share the **SBI Collect Reference Number** with a copy of EMD receipt with bidding documents for proof of payment or reconciliation of fees.





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EARNEST MONEY DEPOSIT:

Earnest Money Deposit (EMD)/Bid Security as stated under IMPORTANT INFORMATION should be provided as applicable. The bid security should remain valid for a period of forty-five days beyond the final bid validity period.

A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period. The decision of the Competent Authority of WBNUJS Kolkata in this respect will be final and binding on all the stake holders.

EXEMPTION OF EARNEST MONEY DEPOSIT:

Earnest Money is to be submitted by the all bidders except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or is registered with the Central Purchase Organization or the concerned Ministry or Department.

CONTACT INFORMATION:

Any queries relating to the tender document and the terms and conditions or technical specification, Bidders may contact to the following offices:

FOR ANY COMMERCIAL TERMS AND CONDITIONS:

Designated Officer: **The Chairman, Procurement Committee**
Department: **Store & Purchase Section, WBNUJS Kolkata**
Email ID: **ao@nujs.edu**
Telephone No: **033-2569 4700 (Extn. 1040)**

For Technical Specification contact **Dr Ankit Srivastava**, 033-2569 4700 (Extn. 2140)





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GENERAL TERMS AND CONDITION

A. PRE-QUALIFICATION CRITERIA:

- 1) Company Profile: The bidders, should be registered as per company norms in India having a registered place of business in West Bengal. Clear supporting documents in this regard should be uploaded.
- 2) Bidders should be the original equipment manufacturer (OEM) or an authorized dealer. For the later, Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed. An authorized dealer is strongly discouraged to authorize another dealer to quote on their behalf.
- 3) The OEM/authorized dealer must have service support team for providing the after sale service for warranty and onsite service near WBNUJS Kolkata, preferably at Kolkata.
- 4) Bidder must have supplied similar equipments/ goods of equal value or more to any Govt. organization. Copy of valid order and satisfactory completion certificate to be enclosed along with the technical bid.
- 5) Bidder will be responsible for delivery, erection, installation and commissioning of the goods /equipment.
- 6) Data/Specification sheet of the quoted model must be attached along with technical bid.
- 7) Technical compliance sheet with point wise explanation of the Specification as per **Annexure-I** must be attached along with technical bid.
- 8) The intending bidders should produce credentials of OEM having similar nature of work order and completion certificate (supply and installation of Laboratory Furniture) of
 - i) 3 (Three) orders with value of 40% of the estimated amount put to tender during 05 (Five) years prior to the date of the tender notice, or
 - ii) 2 (Two) orders with value of 60% of the estimated amount put to tender during 05 (Five) years prior to the date of the tender notice, or
 - iii) 1 (One) order with value of 80% of the estimated amount put to tender during 05 (Five) years prior to the date of the tender notice
 - iv) In case of running works, only those bidders who will submit the certificate of satisfactory running work from the concerned Executive Engineer, or equivalent competent authority will be eligible for the tender. In the required certificate it should be clearly stated the work is in progress satisfactorily and that no penal action has been initiated against the executing agency, i.e., the bidder/OEM.





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- v) Certificate issued by the Executive Engineer, or equivalent or competent authority of a State / Central Government undertaking, Statutory / Autonomous bodies constituted under Central / State statute, on the executed value of completed/ running work will be taken as credential.
- 9) Bidder should submit OEM turnover of 100 CR or above for the last 5 financial years in furniture category.
- 10) The bidder should not have incurred any loss during the last 5 (five) financial years (as of 31st March 2022). (Profit after tax should be positive for the above-mentioned period).
- 11) Neither prospective bidders and OEM nor any of constituent partner had been debarred to participate in Quotation/ Tender by any of the Departments/Authorities as mentioned above during the last 10 (Ten) years prior to the date of this NIQ. Such an incident will be considered as disqualification towards eligibility (A declaration in this respect must be furnished by the prospective bidders as per prescribed format without which the Technical Bid shall be treated non-responsive). Technical Bid shall be treated as non-responsive if anything adverse has come to the notice of the quotation inviting authority against the firm/ agency/bidder so far as his performance is concerned.
- 12) In case the Bidder is not an OEM, the bidder needs to submit Manufacturer's Authorization Certificate.
- 13) Bidder should submit OEM certificate for ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018, ISO 13485:2016/NS-EN ISO 13485:2016 from NABCB (central govt) accredited organization. Certificates obtained from any other non-approved agency will not be acceptable. bidder should submit certificate from All India Occupational Therapists' Association (AIOTA) confirming the design meeting the ergonomic standards and performance evaluation criteria for the office furniture range and the education furniture. Bidder should also submit OEM IGBC certificate.
- 14) The range of laboratory furniture offered by the bidder should have compliance certificate for the OEM through SEFA authorized third party testing centres, for all the parameters of SEFA 8m-2016 or higher grade for laboratory grade metal casework steel base cabinet, & SEFA-10-2016 adaptable laboratory furniture systems conforming to class 7/8. detailed documentary evidence for the same must be included in the technical bid. the testing parameters should adhere as per the SEFA 8-m and SEFA-10 or higher standard guideline. (The bidder should give a declaration that there has been no change in the product engineering design from the date of the certificate). the bidder must also provide evidence, at least one, (purchase order(s) and completion certificate(s)) showing satisfactory supply and installation of both SEFA-8m and SEFA 10 certified furniture in the last three years and have in-house SEFA testing facility to test the product being supplied. bidder should also submit EN 13150; EN 14727. For Fume Hood, bidder should submit OEM certificate of EN 14175 & ASHRAE 110:2016.





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- 15) Bidder to submit OEM SEFA membership certificates for last seven years on a continuous basis.
- 16) Bidder should submit a declaration on a non-judicial stamp paper of Rs. 100 duly notarized, stating that the supplies will be made in strict adherence to the specifications.
- 17) The bidder should submit a declaration through Affidavit on non-judicial stamp paper of Rs. 100 duly notarized, stating of - Non debarment or no Blacklisting from any Govt., semi government or any Govt. undertaking organization.
- 18) The Original Equipment Manufacturer (OEM's) should have own local office at Kolkata and service setup at the district of the project location.
- 19) Joint Ventures/MOU will not be allowed.
- 20) All the items to be supplied should be new, good quality, standard and conform to the technical specifications mentioned in technical bid document. Factory certification in this regard should be submitted. The department reserves the right to get any of the supplied products tested by the SEFA approved testing centers or any other agency decided by the department. Expenditures in this regard if any, shall be borne by the vendor/supplier. Department reserves the right to reject the supplies in case such tests fail to give satisfactory results.
- 21) The party must make their own arrangements for boarding & lodging for their manpower deployed during installation. During installation party must abide by all statutory requirements, safety norms and government rules applicable to them without creating any damage to the Institute premises and properties. For any such damage, the vendor shall be responsible for fixing the same at their own cost.
- 22) Conditional bid submitted by the bidders will not be accepted.
- 23) Bidder should submit OEM's list of tools and machinery, duly certified by any competent authority.
- 24) Bidder should submit the details of company profile along with technical and financial credibility as following:
 - Current Trade License, Incorporation Certificate (if Applicable)
 - Company PAN Card,
 - GST Registration certificate,
 - up to date P-Tax Challan,
 - ITR and Profit and Loss statement with Balance Sheet for Last Three Financial Year etc.
 - Details Office Address with the details of contact person
 - Past Experience of Similar nature of Job in Government Organization.





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B. BID VALIDITY:

The quoted price shall be valid for a period of 180 days from the date of financial bid opening of the tender. The University may issue the order within 180 days from the date of opening of financial bid i.e. within the period of bid validity.

C. DELIVERY

The delivery of the consignment(s) is/are required to be made within 60 days from the issue of the Work Order.

D. PRICES:

The price should be quoted on **Door Delivery WBNUJS Kolkata** basis including applicable Taxes, Charges etc. The bidder shall also show the amount of each item, the total of each section and the grand total of the whole tender.

E. PERFORMANCE SECURITY:

The Vendor shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank /Schedule Bank for an amount of 3 % (Three Percent) of the order value within 10 days from the date of installation and should valid for a period of 38 months beyond the date of completion of all contractual obligations of the supplier including warranty. Compliance sheet of the Performance Security are mentioned in the specification.

The Performance Security will be forfeited and credited to the University's account in the event of a breach of contract by the supplier. The decision of the Competent Authority of WBNUJS Kolkata in this respect will be final and binding on all the stake holders. Performance Security may be refunded to the supplier without interest, after it duly performs and completes the contract in all respects.

F. PAYMENT:

- A) 60% of the order value will be released on receipt of materials at site against submission of claim.
- B) Balance 40% of the order value will be paid after satisfactory commissioning and completion of work.
- C) No freight, transportation or handling charges will be paid extra.

G. INSTALLATION:

Installation and commissioning of the supplied goods/accessories to be done by the successful bidders at our site with your instruments, accessories, tools & tackles and by deploying appropriate manpower as required, at your own cost.





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H. TRAINING:

Training on operation, routine maintenance shall have to be provided to the Staffs/ Technicians etc. after the installation and commissioning at our site as needed and when requested to do so.

I. BANK CHARGES:

NEFT/RTGS/Out Station Bank Charges etc. to the beneficiary account.

J. SUPPORTING EQUIPMENT:

If equipment will require indigenous supporting instruments/accessories etc. at the time of the installation and commissioning, the same should be quoted in separate quotation.

K. SERVICE FACILITY:

Vendor should mention about the possible service set up in India and the contact details of the Authorized person.

L. AGENCY COMMISSION: No agency commission will be paid.

M. SITE PREPARATION:

The Vendor shall inform the University about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the Work Order. The Vendor must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the University should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The Vendor shall visit the University and see the site where the equipment is to be installed and may offer his advice and render assistance to the University in the preparation of the site and other pre-installation requirements.

N. DOWNTIME:

During the warranty period if the problem is not resolved within three working days, 25% of the security deposit will be forfeited as penalty. Downtime will be counted from the date and time of the filing of complaint within the business hours.

O. AFTER SALES SERVICE:

After sales service should be provided satisfactorily as per the requirement of the University.

P. DISPUTES AND JURISDICTION:

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within Kolkata, West Bengal.

Q. FORCE MAJEURE:





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The Vendor shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

R. LIQUIDITY DAMAGES:

1 % per week of the order value will be applicable for belated supply towards liquidated damages subject to maximum of 10 % beyond the due date. Such amount will be deducted from any amount due or which may become due to Vendor.

The condition regarding the execution of LD Clause as mentioned above is given bellow -

For Indigenous Order: Delivery/ Installation from the date of issue of Work Order

S. RESOLUTION OF DISPUTES:

The dispute resolution mechanism to be applied pursuant shall be as follows:

In case of Dispute or difference arising between the Purchaser and a vendor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings.

The dispute shall be referred to The Vice Chancellor, The West Bengal National University of Juridical Sciences (WBNUJS) Kolkata and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

In the case of a dispute between the purchaser and a Foreign Vendor, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the order is issued.

T. GOVERNING LANGUAGE:

The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.





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U. AWARD OF CONTRACT:

WBNUJS Kolkata shall award the contract to the technically eligible lowest bidder. If more than one bidder happens to quote the same lowest price, WBNUJS Kolkata reserves the right to award the contract to more than one bidder or any bidder.

V. PURCHASER'S RIGHT TO VARY QUANTITIES AT THE TIME OF AWARD:

WBNUJS Kolkata reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

W. INDEMNITY:

The vendor shall indemnify, protect and save WBNUJS Kolkata against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment supplied by him.

X. TERMINATION FOR DEFAULT:

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Vendor, terminate the Contract in whole or part:

- 1) If the Vendor fails to deliver, erect, install and commission any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or
- 2) If the Vendor fails to perform any other obligation(s) under the Contract.
- 3) If the Vendor, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause:

- 1) "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- 2) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;"

In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Vendor shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Vendor shall continue the performance of the Contract to the extent not terminated.





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Y. OFFICE FOR COMMUNICATION :

The Bidder is desirable to have an office in West Bengal and service delivery centre in or around Kolkata. The Bidder should mention in detail their support infrastructure including address, contact Phone No., Fax No., e-Mail ID etc. and modalities by which fast response to maintenance calls and minimum downtime will be ensured.





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ANNEXURE- I

THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES

12, LB Block, Sector III, Salt Lake City Kolkata – 700106

W.B. (INDIA)

**TENDER FOR SUPPLY, FITTING, FIXATION OF FURNITURE FOR
WET AND DRY LABORATORY OF FORENSIC SCIENCE**





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Scope of Work

Item No.	Item Name	Dimension	Quantity
1	WALL SIDE WORKBENCH FOR WET LAB (Room No. 213)		
1 A	Table - 01	5837mm (W) x 770mm (D) x 900mm (Ht.)	1
1 B	Table - 02	4058mm (W) x 770mm (D) x 900mm (Ht.)	1
1 C	Table - 03	3988mm (W) x 770mm (D) x 900mm (Ht.)	1
1 D	Table - 04	3080mm (W) x 770mm (D) x 900mm (Ht.)	1
2	ISLAND WORKBENCH FOR WET LAB	4580mm (W) x 1540mm (D) x 900mm (Ht.)	1
3	WALL SIDE WORKBENCH FOR DRY LAB (Room No. 212)		
3 A	Table - 01	4609mm (W) x 770mm (D) x 900mm (Ht.)	1
3 B	Table - 02	2029mm (W) x 770mm (D) x 900mm (Ht.)	1
3 C	Table - 03	6414mm (W) x 770mm (D) x 900mm (Ht.)	1
3 D	Table - 04	1277mm (W) x 770mm (D) x 900mm (Ht.)	1
3 E	Table - 05	3080mm (W) x 770mm (D) x 900mm (Ht.)	1
4	ISLAND WORKBENCH FOR DRY LAB	2330mm (W) x 1540mm (D) x 900mm (Ht.)	1
5	OVERHEAD STORAGE UNIT FOR WET & DRY LAB	600mm (W) x 340mm (D) x 635mm (Ht.)	15
6	CHEMICAL STORAGE CABINET FOR WET LAB	1000mm (W) x 486mm (D) x 1800mm (Ht.)	1
7	FUME HOOD FOR WET LAB	1500mm (W) x 1050mm (D) x 2400mm (H)	1
8	LABORATORY STOOLS	650mm (W) x 650mm (D) x 880-995 (Overall Hight) 670 – 785 (Sitting Hight)	30





ANNEXURE- II

Technical Details and Specification

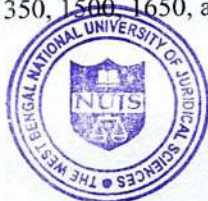
1. TECHNICAL DETAILS FOR ITEM NO. 1 (1A TO 1D) (WALL SIDE WORKBENCH FOR WET LAB)

DESCRIPTION

- A.** The standing height column-based Wall Unit (Single-sided cantilever structure) that meets the performance requirements described in the latest SEFA 10 class 7/8 guideline for the most adaptive range of furniture. Provide certification from the competent SEFA approved test lab that the quoted furniture meets the performance requirements described in SEFA 10 class 7/8 and SEFA 8. Also provide certifications from EN 13150; EN 14727 for the C Frame, Welded floor top units.
- B.** The wall unit shall incorporate fixed height work surfaces with base cabinets. The work surfaces, shelving, service utility distribution, and ancillary items are suspended from the frame structure. The wall bench shall have the counter structures that should have the provision for plumbing and wiring services.
- C.** The under-bench cabinets shall be fixed.
- D.** Worktops are to be supplied with factory-finished and glazed edges. Special shaped worktops that contain holes for sinks and other fittings must be produced with dedicated moulds in the factory, along with the sink and its accessories.
- E.** Electrical provisions along with accessories to be given along with the workbenches.

MATERIALS AND CONSTRUCTION

All C-Frames assemblies should be manufactured from standard hollow metal sections; confirming to I.S. Code 7138:1973 (Indian Standard specification for steel tubes for furniture) and all sheet metal components should be of CRCA confirming to IS Code 513:1994. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run. The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring. The tubular enclosed type of construction shall discourage dust accumulation and unwanted development of bacteria & fungus. Drainage gradient should be well adjusted throughout the length of table and should have horizontal supports for drainage systems. The structure should have a removable back panel to provide access for maintenance throughout the length of table. The C-frame shall also have skirting at back bottom side. It should be suitable standing nominal heights of 900mm. The table depth should be 770mm. The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. They should be available in various widths of 600, 750, 900, 1050, 1200, 1350, 1500, 1650, and 1800, depending on the layout of the laboratory furniture. The cover





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panels should cover the service lines that runs behind for the wall side units and through the middle for the island units. These should be easily removable (unclipped), and the service line be accessed for maintenance. They should be made of CRCA MS with pure epoxy powder coating and are of 1mm thickness. The storage cabinets should be fixed and should also have the provision for leg space as per the need. It should have the provision for relocation anywhere easily as it should be an independent unit. Cabinet should be of square non-sharp edge construction. Doors should be assembled with SS-304 hinge assembly. Removable back panel should be provided to easily access the service lines running behind the cabinet benches. Intermediate horizontal channels should be provided between door and drawer. Shelf should be eight bend panel with 20mm height. Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball slide suspension system. Steel door and drawer front should be of double wall construction with sound dampening material filled inside. Doors should be easily removable, and hinges should be easily replaceable. Knee space panel should be in 22-gauge construction. The dimensions of the cabinets should be W = 750mm D = 530mm, H = 635 mm. The configurations should be 2 Shutters and 1 Drawer. The entire material construction for the storage units should be MSCRCA: IS - 513 (1994). Thickness of LH/RH side panels, shutter front, Bottom panel, Top front, Drawer separator, shelf, Alignment channel should be of 1.2mm thk. Removable Back panel, Shutter cover, Fr. Rack strip, Top cover panel should be of 0.8mmthk. The finish of the welded cabinets should be powder coated pure epoxy of thickness 40-50 microns. Handles should be Anodized Aluminium Recessed-Type, of CTC: 160.0mm. Units should have a locking facility with 180° and 10 lever cam lock mechanism. The hinges should be Knuckle-butt type SS Hinge. The screws should be SS304. Shutter should be of twin-type construction with sound dampening effect using profeel. Shutter cover should be equipped with Bump on for sound dampening. Ball Slide for drawer units should be 500mm length. The service fittings should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise. Fittings should be identified with service indexes in the color coding as per DIN 12920. The electrical trunking used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The sinks should polypropylene moulded construction made up of 5 mm thick high density and elastic poly propylene with good resistance to organic solvents. Bowl size should be 500 L x 400 W x 300 D mm. Faucet should be 3-way type. The worktop should be 19mm (+/- 2mm) thick Jet-Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothened. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from meeting the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. The backing material used is a neoprene mat of 6 mm thickness. The laboratory furniture should meet the performance requirements described in the latest SEFA 10-2016 class 7/8 guideline for the most adaptive range of furniture. The product should also have SEFA 8M-2016 for laboratory grade metal casework. Should have the certification from the competent SEFA approved test lab. It should also be mentioned on the website of SEFA (<https://www.sefalabs.com/>). The product should be certified as per EN 13150; EN 14727.

2. TECHNICAL DETAILS FOR ITEM NO. 2 (ISLAND WORKBENCH FOR WET LAB)

DESCRIPTION

- A. The standing height column-based work bench Island Unit (double-sided cantilever structure) that meets the performance requirements described in the latest SEFA 10 class 7/8 guideline for the most adaptive range of furniture. Provide certification from the competent SEFA approved test lab that the quoted furniture meets the





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performance requirements described in SEFA 10 class 7/8 and SEFA 8. Also provide certifications from EN 13150; EN 14727 for the C Frame, Welded floor units.

B. The island bench shall incorporate fixed height work surfaces with base cabinets. The work surfaces, shelving, service utility distribution, and ancillary items are suspended from the frame structure. The island bench shall have the above-counter structures that should have the provision for wiring services, and the services can be taken from the ceiling if required. The workbench shall also incorporate adjustment slots for vertical height adjustability of shelving and ancillary items.

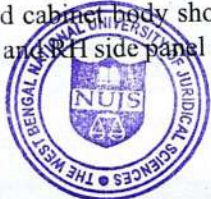
C. The under-bench cabinets shall be fixed.

D. Worktops are to be supplied with factory-finished and glazed edges. Special shaped worktops that contain holes for cup-sinks and other fittings must be produced with dedicated moulds in the factory, along with the sink and its accessories.

E. Electrical provisions along with accessories to be given along with the workbenches.

MATERIALS AND CONSTRUCTION

All C-Frames assemblies should be manufactured from standard hollow metal sections; confirming to I.S. Code 7138:1973 (Indian Standard specification for steel tubes for furniture) and all sheet metal components should be of CRCA confirming to IS Code 513:1994. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run. The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring. The tubular enclosed type of construction shall discourage dust accumulation and unwanted development of bacteria & fungus. The structure should have a removable back panel to provide access for maintenance throughout the length of table. The C-frame shall also have skirting at back bottom side. It should be suitable for standing height of 900mm. The table depth should be 1540 mm. The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. They should be available in various widths of 600, 750, 900, 1050, 1200, 1350, 1500, 1650, and 1800, depending on the layout of the laboratory furniture. The cover panels should cover the service lines that runs behind for the wall side units and through the middle for the island units. These should be easily removable (unclipped), and the service line be accessed for maintenance. They should be made of CRCA MS with pure epoxy powder coating and are of 1mm thickness. The master upright should be of the dimensions: 300 x 150 x 1.2 mm. It should be made from 1.2mm thick CRCA MS with pure epoxy powder coating. It should have an open-able door for easy service maintenance and should extend till the false ceiling. The vertical upright should form the backbone for internal distribution of electrical supply systems and shelves should be constructed from 16-gauge CRCA formed steel panels with removable covers. Shelf height should be fixed with an increment of 1 inch / 25mm. Uprights should be supplied with adjustable feet from -5mm to +20mm. Fixed shelves should be provided between uprights with 1" of height adjustability. The ends and intermediate vertical supports should be 2mm thick aluminium extrusion with MS brackets of 2 mm thick. Metal sheet should be given as the shelves. Suspended welded cabinet body should be of flush face construction with intersection of vertical and horizontal members like LH and RH side panel along with front horizontal channel, back panel, and bottom panel. The storage





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cabinets should be fixed and should also have the provision for leg space as per the need. It should have the provision for relocation anywhere easily as it should be an independent unit. Cabinet should be of square non-sharp edge construction. Doors should be assembled with SS-304 hinge assembly. Removable back panel should be provided to easily access the service lines running behind the cabinet benches. Intermediate horizontal channels should be provided between door and drawer. Shelf should be eight bend panel with 20mm height. Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball slide suspension system. Steel door and drawer front should be of double wall construction with sound dampening material filled inside. Doors should be easily removable, and hinges should be easily replaceable. Knee space panel should be in 22-gauge construction. The dimensions of the cabinets should be W = 750mm D = 530mm, H = 635 mm. The configurations should be 2 Shutters and 1 Drawer. The entire material construction for the storage units should be MSCRCA: IS - 513 (1994). Thickness of LH/RH side panels, shutter front, Bottom panel, Top front, Drawer separator, shelf, Alignment channel should be of 1.2mm thk. Removable Back panel, Shutter cover, Fr. Rack strip, Top cover panel should be of 0.8mmthk. The finish of the welded cabinets should be powder coated pure epoxy of thickness 40-50 microns. Handles should be Anodized Aluminium Recessed-Type, of CTC: 160.0mm. Units should have a locking facility with 180° and 10 lever cam lock mechanism. The hinges should be Knuckle-butt type SS Hinge. The screws should be SS304. Shutter should be of twin-type construction with sound dampening effect using profeel. Shutter cover should be equipped with Bump on for sound dampening. Ball Slide for drawer units should be 500mm length. The service fittings should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise. Fittings should be identified with service indexes in the color coding as per DIN 12920. The electrical trunking used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The worktop should be 19mm (+/- 2mm) thick Jet-Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothed. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from meeting the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. The backing material used is a neoprene mat of 6 mm thickness. The laboratory furniture should meet the performance requirements described in the latest SEFA 10-2016 class 7/8 guideline for the most adaptive range of furniture. The product should also have SEFA 8M-2016 for laboratory grade metal casework. Should have the certification from the competent SEFA approved test lab. It should also be mentioned on the website of SEFA (<https://www.sefalabs.com/>). The product should be certified as per EN 13150; EN 14727.

3. TECHNICAL DETAILS FOR ITEM NO. 3 (3A to 3E) (WALL SIDE WORKBENCH FOR DRY LAB)

DESCRIPTION

A. The standing height column-based Wall Unit (Single-sided cantilever structure) that meets the performance requirements described in the latest SEFA 10 class 7/8 guideline for the most adaptive range of furniture. Provide certification from the competent SEFA approved test lab that the quoted furniture meets the performance requirements described in SEFA 10 class 7/8 and SEFA 8. Also provide certifications from EN 13150; EN 14727 for the C Frame, Welded floor top units.





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- B. The wall unit shall incorporate fixed height work surfaces with base cabinets. The work surfaces, shelving, service utility distribution, and ancillary items are suspended from the frame structure. The wall bench shall have the counter structures that should have the provision for plumbing and wiring services.
- C. The under-bench cabinets shall be fixed.
- D. Worktops are to be supplied with factory-finished and glazed edges. Special shaped worktops that contain holes for sinks and other fittings must be produced with dedicated moulds in the factory, along with the sink and its accessories.
- E. Electrical provisions along with accessories to be given along with the workbenches.

MATERIALS AND CONSTRUCTION

All C-Frames assemblies should be manufactured from standard hollow metal sections; confirming to I.S. Code 7138:1973 (Indian Standard specification for steel tubes for furniture) and all sheet metal components should be of CRCA confirming to IS Code 513:1994. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run. The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring. The tubular enclosed type of construction shall discourage dust accumulation and unwanted development of bacteria & fungus. Drainage gradient should be well adjusted throughout the length of table and should have horizontal supports for drainage systems. The structure should have a removable back panel to provide access for maintenance throughout the length of table. The C-frame shall also have skirting at back bottom side. It should be suitable standing nominal heights of 900mm. The table depth should be 770mm. The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. They should be available in various widths of 600, 750, 900, 1050, 1200, 1350, 1500, 1650, and 1800, depending on the layout of the laboratory furniture. The cover panels should cover the service lines that runs behind for the wall side units and through the middle for the island units. These should be easily removable (unclipped), and the service line be accessed for maintenance. They should be made of CRCA MS with pure epoxy powder coating and are of 1mm thickness. The storage cabinets should be fixed and should also have the provision for leg space as per the need. It should have the provision for relocation anywhere easily as it should be an independent unit. Cabinet should be of square non-sharp edge construction. Doors should be assembled with SS-304 hinge assembly. Removable back panel should be provided to easily access the service lines running behind the cabinet benches. Intermediate horizontal channels should be provided between door and drawer. Shelf should be eight bend panel with 20mm height. Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball slide suspension system. Steel door and drawer front should be of double wall construction with sound dampening material filled inside. Doors should be easily removable, and hinges should be easily replaceable. Knee space panel should be in 22-gauge construction. The dimensions of the cabinets should be W = 750mm D = 530mm, H = 635 mm. The configurations should be 2 Shutters and 1 Drawer. The entire material construction for the storage units should be MSCRCA: IS - 513 (1994). Thickness of LH/RH side panels, shutter front, Bottom panel, Top front, Drawer separator, shelf, Alignment channel should be 2mm thk. Removable Back panel, Shutter cover, Fr. Rack strip, Top cover panel should be of 0.8mm thk. The finish of the welded cabinets should be powder coated pure epoxy of thickness 40-50 microns.





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Handles should be Anodized Aluminium Recessed-Type, of CTC: 160.0mm. Units should have a locking facility with 180° and 10 lever cam lock mechanism. The hinges should be Knuckle-butt type SS Hinge. The screws should be SS304. Shutter should be of twin-type construction with sound dampening effect using profeel. Shutter cover should be equipped with Bump on for sound dampening. Ball Slide for drawer units should be 500mm length. The service fittings should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise. Fittings should be identified with service indexes in the color coding as per DIN 12920. The electrical trunking used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The sinks should polypropylene moulded construction made up of 5 mm thick high density and elastic poly propylene with good resistance to organic solvents. Bowl size should be 500 L x 400 W x 300 D mm. Faucet should be 3-way type. The worktop should be 19mm (+/- 2mm) thick Jet-Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothened. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from meeting the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. The backing material used is a neoprene mat of 6 mm thickness. The laboratory furniture should meet the performance requirements described in the latest SEFA 10-2016 class 7/8 guideline for the most adaptive range of furniture. The product should also have SEFA 8M-2016 for laboratory grade metal casework. Should have the certification from the competent SEFA approved test lab. It should also be mentioned on the website of SEFA (<https://www.sefalabs.com/>). The product should be certified as per EN 13150; EN 14727.

4. TECHNICAL DETAILS FOR ITEM NO. 4 (ISLAND WORKBENCH FOR DRY LAB)

DESCRIPTION

- A. The standing height column-based work bench Island Unit (double-sided cantilever structure) that meets the performance requirements described in the latest SEFA 10 class 7/8 guideline for the most adaptive range of furniture. Provide certification from the competent SEFA approved test lab that the quoted furniture meets the performance requirements described in SEFA 10 class 7/8 and SEFA 8. Also provide certifications from EN 13150; EN 14727 for the C Frame, Welded floor units.
- B. The island bench shall incorporate fixed height work surfaces with base cabinets. The work surfaces, shelving, service utility distribution, and ancillary items are suspended from the frame structure. The island bench shall have the above-counter structures that should have the provision for wiring services, and the services can be taken from the ceiling if required. The workbench shall also incorporate adjustment slots for vertical height adjustability of shelving and ancillary items.
- C. The under-bench cabinets shall be fixed.
- D. Worktops are to be supplied with factory-finished and glazed edges. Special shaped worktops that contain holes for cup-sinks and other fittings must be produced with dedicated moulds in the factory, along with the sink and its accessories.
- E. Electrical provisions along with accessories to be given along with the workbenches.





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MATERIALS AND CONSTRUCTION

All C-Frames assemblies should be manufactured from standard hollow metal sections; confirming to I.S. Code 7138:1973 (Indian Standard specification for steel tubes for furniture) and all sheet metal components should be of CRCA confirming to IS Code 513:1994. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run. The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring. The tubular enclosed type of construction shall discourage dust accumulation and unwanted development of bacteria & fungus. The structure should have a removable back panel to provide access for maintenance throughout the length of table. The C-frame shall also have skirting at back bottom side. It should be suitable for standing height of 900mm. The table depth should be 1540 mm. The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. They should be available in various widths of 600, 750, 900, 1050, 1200, 1350, 1500, 1650, and 1800, depending on the layout of the laboratory furniture. The cover panels should cover the service lines that runs behind for the wall side units and through the middle for the island units. These should be easily removable (unclipped), and the service line be accessed for maintenance. They should be made of CRCA MS with pure epoxy powder coating and are of 1mm thickness. The master upright should be of the dimensions: 300 x 150 x 1.2 mm. It should be made from 1.2mm thick CRCA MS with pure epoxy powder coating. It should have an open-able door for easy service maintenance and should extend till the false ceiling. The vertical upright should form the backbone for internal distribution of electrical supply systems and shelves should be constructed from 16-gauge CRCA formed steel panels with removable covers. Shelf height should be fixed with an increment of 1 inch / 25mm. Uprights should be supplied with adjustable feet from -5mm to +20mm. Fixed shelves should be provided between uprights with 1" of height adjustability. The ends and intermediate vertical supports should be 2mm thick aluminium extrusion with MS brackets of 2 mm thick. Metal sheet should be given as the shelves. Suspended welded cabinet body should be of flush face construction with intersection of vertical and horizontal members like LH and RH side panel along with front horizontal channel, back panel, and bottom panel. The storage cabinets should be fixed and should also have the provision for leg space as per the need. It should have the provision for relocation anywhere easily as it should be an independent unit. Cabinet should be of square non-sharp edge construction. Doors should be assembled with SS-304 hinge assembly. Removable back panel should be provided to easily access the service lines running behind the cabinet benches. Intermediate horizontal channels should be provided between door and drawer. Shelf should be eight bend panel with 20mm height. Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball slide suspension system. Steel door and drawer front should be of double wall construction with sound dampening material filled inside. Doors should be easily removable, and hinges should be easily replaceable. Knee space panel should be in 22-gauge construction. The dimensions of the cabinets should be W = 750mm D = 530mm, H = 635 mm. The configurations should be 2 Shutters and 1 Drawer. The entire material construction for the storage units should be MSCRCA: IS - 513 (1994). Thickness of LH/RH side panels, shutter front, Bottom panel, Top front, Drawer separator, shelf, Alignment channel should be of 1.2mm thk. Removable Back panel, Shutter cover, Fr. Rack strip, Top cover panel should be of 0.8mmthk. The finish of the welded cabinets should be powder coated pure epoxy of thickness 40-50 microns. Handles should be Anodized Aluminium Recessed-Type, of CTC: 160.0mm. Units should have a locking facility with 180° and 10 lever cam lock mechanism. The hinges should be Knuckle-butt type SS Hinge. The screws should be SS304. Shutter should be of twin-type construction with sound dampening





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effect using profeel. Shutter cover should be equipped with Bump on for sound dampening. Ball Slide for drawer units should be 500mm length. The service fittings should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise. Fittings should be identified with service indexes in the color coding as per DIN 12920. The electrical trunking used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The worktop should be 19mm (+/- 2mm) thick Jet-Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothened. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from meeting the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. The backing material used is a neoprene mat of 6 mm.

5. TECHNICAL DETAILS FOR ITEM NO. 5 (OVERHEAD STORAGE UNIT FOR WET & DRY LAB)

DESCRIPTION

- A. The Wall Mounted overhead cabinets shall be fixed.

MATERIALS AND CONSTRUCTION

Construction should be the same as the under-bench cabinets. The height of these cabinets should be around 635mm while the depth should be around 340mm with 750mm length. The shutters should be available in two options: Metal shutters and Metal frame with inserted glass. There should be one height-adjustable shelf inside each cabinet. Other construction should be similar to under-bench cabinet.

6. TECHNICAL DETAILS FOR ITEM NO. 6 (CHEMICAL STORAGE CABINET FOR WET LAB)

DESCRIPTION

- A. The Chemical Storage Cabinets should be mobile and with facility for ducting.

MATERIALS AND CONSTRUCTION

Chemical Storage Cabinets for storages of corrosive chemicals and is provided with a ventilation system to enable exhaust of localized fumes emanating from the chemicals stored. The material should be is 1.2 mm CRCA MS with pure Epoxy Powder coating. It must be fitted with a float glass to enable visibility inside the cabinet. It should also have louvers/perforations for air supply. The overall dimensions are 1000 x 486 x 1800 mm (W x D x H). To be connected to the ducting system.

7. TECHNICAL DETAILS FOR ITEM NO. 7 (FUME HOOD FOR WET LAB)

DESCRIPTION

- A. **Section Includes:** Supply and installation of Bench Top LCV Type fume hoods, work tops, and under structures as per the minimum specification outlined below.





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- B. Exhaust system Connection:** Connect fume hoods to the PP-FRP Duct which is to be supplied along with the fume hood along with the blower of requisite RPM as per the need of the functionality of the Fume Hood.
- C.** The Fume Hoods to be designed and have certified as per EN 14175 & ASHRAE 110:2016.

MATERIALS AND CONSTRUCTION

Superstructure Frame: It shall be a free-standing rigid panel structure of steel (G.I.)

Interior Walls: Double wall ends, not more than 6" wide, shall be provided to maximize interior working area. The area between the double wall ends shall be closed to house the remote-control valves. Cut-outs shall be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical fascias shall contain the required service controls, electrical switches, and receptacles.

Air foil: A streamlined airfoil shall be integral at the bottom of the hood opening on bench top hoods. This foil shall provide a nominal 20mm open space between the foil and the top front edge of the work surface to direct an air stream across the work surface to prevent back flow of air. The sash shall be provided with a separate handle which also provides for air flow when in completely closed position. The foil shall be of 1.2mm AL powder coated to resist denting and flexing.

Baffles: A stable, non-adjustable baffle 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 for cleaning. It shall have 3-point suction for low, medium and high-density fume suction

Duct Collar: A 8"-10" diameter polyethylene funnel shaped rectangular duct collar shall be located in the top of the hood plenum chamber.

AFM: Fume hoods shall be provided with an alarm system to detect low and high hood face velocities. The alarm system shall indicate the actual face velocity of the hood regardless of sash position. The system shall have an air velocity sensor mounted on the interior side liner of the hood where it is easily accessible for cleaning. The velocity monitor shall have a digital display of the air velocity through the hood face in feet per minute. The alarm signals shall activate any time the face velocity falls below the low velocity alarm set point or rises above the high velocity alarm set point. There shall be both visual and audible alarm signals. The audible alarm shall have a mute. Low and high alarm contacts shall be provided for remote monitoring.

Lighting: LED LIGHT: Two LED Lights of Philips or equivalent make shall be provided in the fume hood. The lighting fixture shall be completely outside the fume hood area. The luminosity on the work surface shall be average 600 Lux.

Sash: Combination Sash: A combination sash shall be provided. The sash shall have horizontal sliding glass panels in a vertical rising steel frame. The bottom of the sash frame shall have a full-length metal handle. The sash track has minimum protrusion to avoid any kind of turbulence. The sash shall be counterbalanced with a weight to prevent tilting and binding during operation. The glass panels shall be 5mm toughened glass mounted in a levelled channel with roller for smooth operation.

Plumbing Services: Flexible Tubing: Utility services like Nitrogen, Compressed Air & Raw water (as per Schedule of Quantity) shall consist of remote-control valves as selected located within the end panels and controlled by in and out facility with flexible hose passing through the side panels of the hood, with colour coded plastic handles.





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Interior fitting for gases and water shall be with powder coated brass. All gas valves for regular lab gases to have standard needle valve shall be supplied. All supplied valves to clear the following pressure test conditions: Gas Fittings – 7 bar, Water fittings – 10 bars.

Electrical Services: The hood superstructure shall be fully wired and shall have a control box with MCB blower starter all safety devices like trip etc. Inlet shall be of 3 phase power supply and the whole electrical shall be of plug and play type. It should have 4 nos. electrical sockets and switches of Northwest make (230V, 5/16 A, 50 Hz).

Electric Hatch: There shall be two hatches, one in each vertical front side of the fume hood near worktop level which will allow passage of the electric wires of the equipment being used in the chamber to be guided through and connected to the electric power points.

Liner – Interior liner panels shall be 6 mm thick Phenol resin based industrial laminate.

LPG: Provision for LPG connectivity should be given.

Lattice Rod Assemblies: 12mm dia solid epoxy rods shall be clamped with the PP clamps to form a lattice arrangement to hold the test samples and rotors within the fume hood. Pitch for each grid structure should be 200mm horizontally and 200mm vertically.

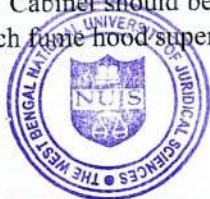
Base Cabinets: Fume hoods to be designed to rest on a bench (high base stand, pedestal) which is a complete rigid steel structure.

Frame based: Fume hoods are designed to rest on a bench which is a complete rigid steel structure. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. All frame-work should be pre-treated with superior pure epoxy powder coated finish.

Under Bench Cabinets: Fume hood under bench cabinets is to be a combination of Acid & Solvent cabinets.

Acid Storage Cabinet: Storage cabinet has to be designed to safely store highly corrosive acids with a full PP construction. All safety claims of this product are to be backed by third party certification for Chemical Spot Test for 49 chemicals listed in SEFA standards and used across various industries. The cabinet has to be designed to be fully ventilated ensuring air circulation and preventing a build-up of dangerous fumes within the cabinet. The shelves comprise of removable height adjustable collection trays that are leak-proof, enhancing the safety factor of the storage units. There should be an air-duct at the back, inside the cabinet that effectively extracts fumes when connected to exhaust. Louvers are provided on the front doors to allow inward flow of fresh air. Cabinet size will be : 540mm (W) x 530mm (D) x 630mm (H).

Flammable Solvent Cabinet: Safety storage under bench cabinet for flammables should be 90 minutes fire-resistant, Single door (left-hand), Body and door grey coloured. Size should be W x D x H (mm): 593 x 574 x 600 / W x D x H (inch): 23.35 x 22.6 x 23.62. Cabinet should be provided with Bottom collecting sump and perforated insert & cylinder lock. Cabinet should be compliant to EN 14470-1, EN 14727, CE, GS-Mark, UL 1275, ULC/ORD-C1275-84. Cabinet should be provided with two shut-off devices for fresh and exhaust air. Shut-off devices should be self-closing in the event of fire (tested and approved system EN 14470-1). Should be provided with Connecting piece (Ø 50 mm / 1.97 inch) and ready for connection to a technical ventilation. The door should remain open in any position, self-closing in the event of fire and lockable with cylinder locking with locking state indicator [E]. Cabinet should be provided with castors with plinth (H=30 mm) so that the same can be easily slid in under-bench fume hood superstructure.





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Ceiling Enclosures: To be provided to enclose space between front top and ceiling of Concept fume hood superstructure also provides enclosure for raised sash.

Transition: Used to connect fume hood with ducting. They are designed to reduce the static pressure and are made up of Polypropylene of 6 mm thickness.

Work Surface: Granite: Standard hood work surface shall be 18mm thick jet black granite in the form of a watertight pan, not less than 7 mm deep to contain spillage. Worktop will have oval shaped 102 mm X 175 mm 'PP' Cup-Sink for drainage. Top shall be manufactured at the same manufacturing location as the fume hood to assure proper cut-out alignment and coordinated shipping. The work surface and cup drain shall be available in black.

Centrifugal Blower: Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower shall be designed to give a face velocity at safe working height as per the international safe velocity norms. (ANSI/AIHA Z9.5). The blower body shall be PP + FRP and chemical (corrosion) resistant and mounted on a metallic stand. Capacity and Qty will be as per schedule of Qty.

Ducting: Rigid Ducting of PP (Polypropylene) + FRP (Fibre Reinforced Polyester) and flexible ducting with flanges, bends, damper transitions, clamps etc. Flexible joint shall be provided in the ducting in order to avoid transmitting the blower vibrations to the hood. A rain cowl is provided at the outlet of blower. As per schedule of Qty.

8. TECHNICAL DETAILS FOR ITEM NO. 8 (LABORATORY STOOLS)

DESCRIPTION/ MATERIAL AND CONSTRUCTION

The seat should be made up of 1.2 cm thick Commercial Grade plywood with moulded Polyurethane foam and should be upholstered with replaceable leatherette covers. The seat size should be of Diameter 40.0 cm having an adjustment of 360 Degree Revolving type. The back assembly to have contoured lumbar support for extra comfort. The back size should be 45.0 cm (W) covered with U foam. The polyurethane foam should be moulded with density = 45 +/-2 kg/m³ and Hardness 20 +/- 2 on Hampden machine at 25% compression. Should have easy operable manual height adjustment with the help of a knob. It should be easily lockable at the most comfortable position. The five-prong pedestal should be fabricated from 0.2cm. thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors (Castor wheel diameter 5.0cm.) The pedestal should be of 55.0cm pitch-circle diameter (65.0 cm with castors). Circular foot ring of dia. 520 mm made from 19 mm dia. MS ERW Tube for foot support in High-base stool. The twin wheel castors are to be injection moulded in 30% Glass Filled black Nylon.





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LIST OF APPROVED MAKES FOR COMPONENTS:

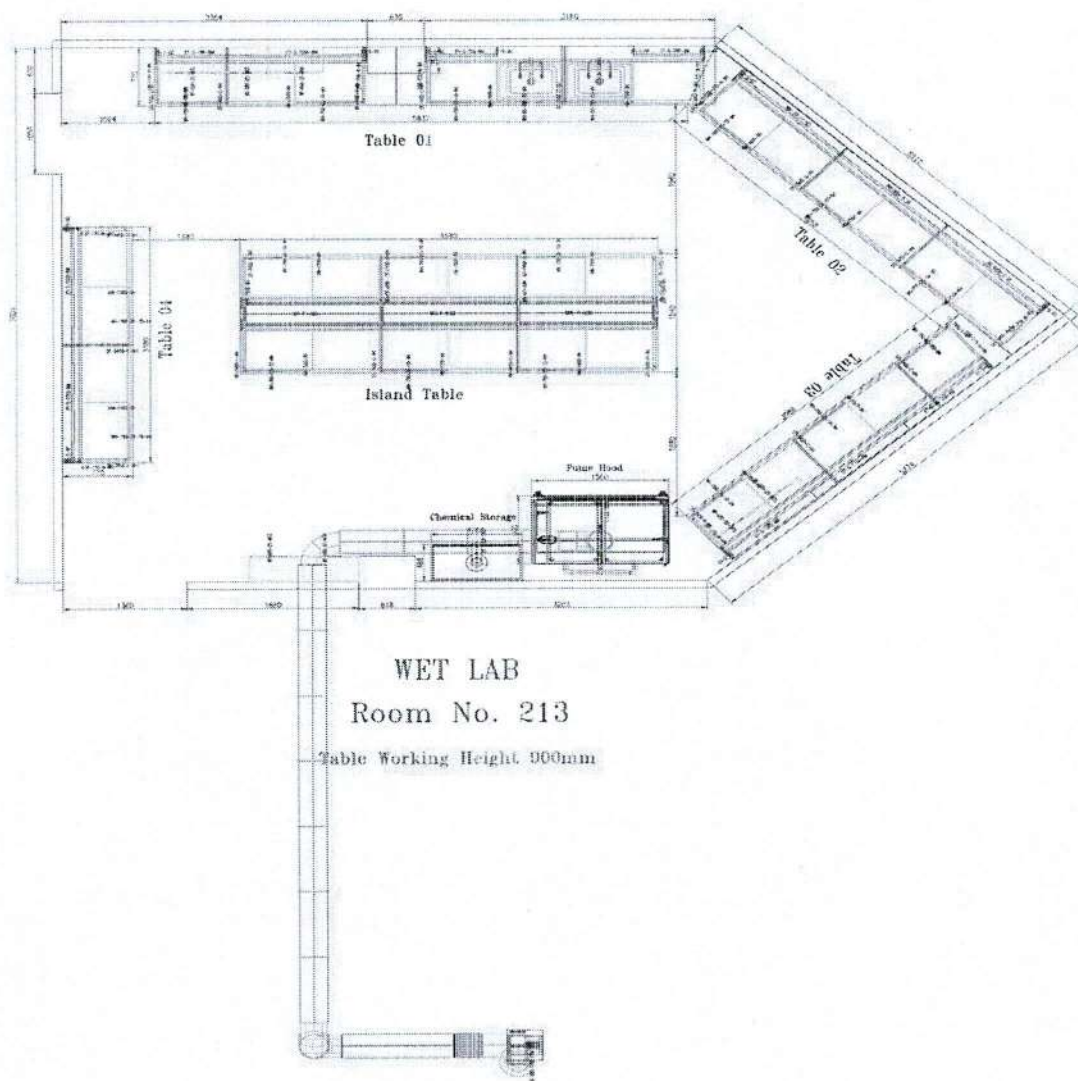
Steel	TATA Steel, JINDAL Steel
Powder Coating	Kansai Nerolac, Berger Paints, Asian Paints
Fume Hood Utility Fittings	Watersaver, Broen
Airflow Monitor (AFA)	TEL (UK)
Switches and Sockets, Data and LAN points	Northwest, Norisys
Sink (Cup Sink)	KL Labs, Alloyplass, Premier Polymers
Worktop	Jet Black Granite
Storages for corrosive chemicals	Godrej Resilience cabinets or Equivalent
Storages for Flammable Solvents	Justrite, Asecos or Equivalent
Blowers	Almonard, Konark, UNC Plast
DOL Starter	L&T, Seimens, Havells
Electrical Wiring	Polycab, Finolex, Havells





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DESIGN OF WET AND DRY LABORATORIES





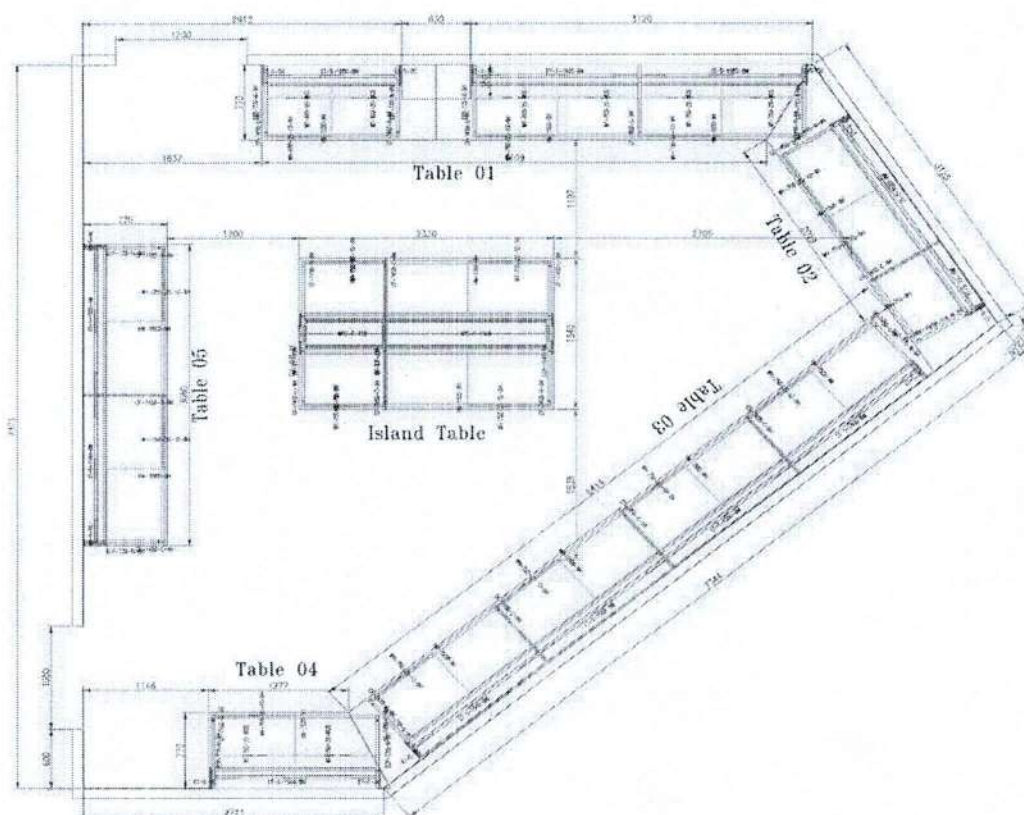
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DRY LAB

Room No. 212

Table Working Height 900mm





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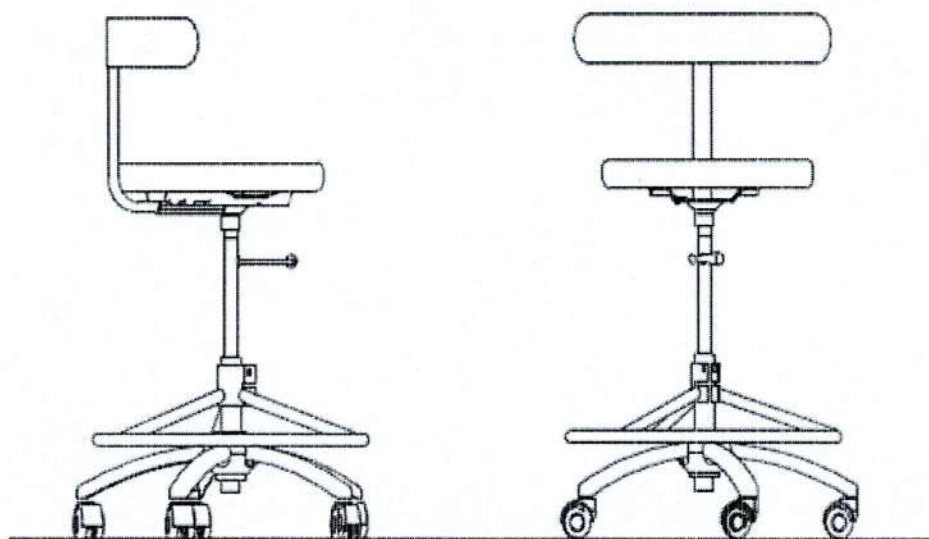
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DESIGN OF LABORATORY STOOLS



WIDTH (W): 65.0 CM.
DEPTH (D): 65.0 CM.
HEIGHT (H): 88.0-99.5 CM.
SEAT HEIGHT (SH): 67.0-76.5 CM.
UNSPECIFIED TOL. = ± 0.5 CM.





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ANNEXURE- III

FORMAT OF MANUFACTURERS' AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letter head of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer].

Tender Ref.No with Date:

To

The Vice-Chancellor

The West Bengal National University of Juridical Sciences

"Dr. Ambedkar Bhavan"

12, LB Block, Sector-III, Salt Lake City, Kolkata- 700 106

Dear Sir,

We _____ who are established and reputable
Manufacturers of _____ having factories/office at

_____ (address of factory/office) do

hereby certify that _____
(Name of the Authorized Dealer) is our authorized dealer to quote against your tender enquiry
no _____ dated _____.

We hereby extend our full guarantee and warranty in accordance with the General Conditions of Contract, with respect to the Goods / Services offered by the above authorized company.

Yours faithfully,

Name of the Signatory:

Contact Number

Name of Manufacturer

Seal and Signature





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ANNEXURE- IV

PAST EXPERIENCE (LIST OF GOVT. ORGANIZATION/DEPARTMENT)

List of Government Organizations/ Private Organisations for whom the Bidder has undertaken such work during last three years (must be supported with supply orders)			
Name of the organization	Name of Contact Person/ User with Designation	Year of Supply/ Installation	Contact No.

(Signature of the Authorized Person with Organization Seal)

Designation with Contact No:

Company Name:





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ANNEXURE- V

PERFORMANCE SECURITY FORM (MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY)

To
The Vice-Chancellor
The West Bengal National University of Juridical Sciences
"Dr. Ambedkar Bhavan"
12, LB Block, Sector-III, Salt Lake City, Kolkata- 700 106

WHEREAS (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no. dated to supplies (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the vendor, up to a total of (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the vendor to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the vendor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. This guarantee shall be valid until the Day of, 20.....

(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

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

FOR Vendor

Signature

Name.....

Designation

Date

FOR PURCHASER

Signature

Name.....

Designation

Date





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ANNEXURE- VI

BIDDER INFORMATION FORM

(TO BE PRINTED ON ORGANIZATION LETTER HEAD)

Company Name : _____
Registration Number : _____
Registered Address : _____

Name of Partners /Director : _____
City : _____
Postal Code : _____
Company's Establishment Year : _____
Company's Nature of Business : _____

Company's Legal Status (tick on appropriate option)
1) Limited Company;
2) Undertaking; 3) Joint Venture; 4) Partnership
5) Others (In case of others please specify)

Company Category
1) Micro Unit as per MSME
2) Small Unit as per MSME
3) Medium Unit as per MSME
4) Ancillary Unit; 5) SSI
6) Others (In case of others please specify)

CONTACT DETAILS

Contact Name : _____
Email Id : _____
Designation : _____
Phone No : _____
Mobile No : _____

BANK DETAILS

Name of Beneficiary : _____
A/c No. CC/CD/SB/OD : _____
Name of Bank : _____
IFSC No. (Bank) : _____
Branch Address and Branch Code : _____

OTHER DETAILS

Vendor's PAN No. : _____
Vendor's GST : _____

(Signature of the Authorized Person with Organization Seal)

Designation with Contact No:

Company Name:





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ANNEXURE- VII

DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION (to be provided on letter head of the firm)

I hereby certify that the above firm namely _____ is neither blacklisted by any Central/ State Government/ Public Undertaking/ University nor any criminal case registered / pending against the firm or its owner / partners anywhere in India (or) against any of its branches (or) partners abroad.

I also certify that the above information is true and correct in any every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

(Signature of the Authorized Person with Organization Seal)

Designation with Contact No:

Company Name:





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ANNEXURE- VIII

ACCEPTANCE OF TENDER

(TO BE PRINTED ON ORGANIZATION LETTER HEAD)

Tender Ref.No with Date:

To
The Vice-Chancellor

The West Bengal National University of Juridical Sciences
"Dr. Ambedkar Bhavan"
12, LB Block, Sector-III, Salt Lake City, Kolkata- 700 106

I/ We _____ (name and designation of the bidder) on behalf of _____ (name of the organization/company) have downloaded / obtained the tender document(s) for the above mentioned 'Tender from the University website (_____). I/ We hereby certify that I/ we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), specification terms and condition etc.), which form part of the contract agreement and I/ we shall abide hereby by the terms / conditions / clauses contained therein. The corrigendum(s) issued from time to time by your organization have also been taken into consideration, while submitting this acceptance letter.

I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety. I/ We do hereby declare that our organization/company has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking. I/ We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract.

(Signature of the Authorized Person with Organization Seal)

Designation with Contact No:

Company Name:





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ANNEXURE- IX

FORM OF BID-SECURING DECLARATION (To be printed on Organization Letter Head)

To

The Chairman, Purchase Committee
The West Bengal National University of Juridical Sciences
"Dr. Ambedkar Bhavan"
12, LB Block, Sector-III, Salt Lake City, Kolkata- 700 106

Ref: Tender Document No.

Dated _____

I/We, the undersigned hereby certify that if we withdraw or modify our Bid during the period of validity, or if we are awarded the contract and fail to sign the contract, or we fail to submit a performance security before the deadline defined in this tender document, we will be suspended for the period of **Three (3) years** from being eligible to submit Bids for contracts for which tenders are floated by the University.

Dated this _____ day of _____

For and on behalf of M/s. _____

Address: _____

Signature with Stamps _____





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ANNEXURE- X

CHECK LIST

PARTICULAR	BIDDER REMARKS
Name and address of the Bidder/Organization with Contact no and Email ID :	
Name and address of the foreign principal with Contact no and Email ID:	
Name and address of the company to whom order to be placed:	
Period Standard Warranty Offered:	
Whether comply to submit the Performance security.	
Whether the bidder comply to deliver and install the equipment/ instrument as per tender:	
Whether the bidder agreed to provide the after sale service during the warranty period as per the requirement of the University:	
Whether the bidder quoted all the items/ component of the equipment's as per the tender Specification:	
Whether the bidder uploaded the detailed technical specification/technical offer/ technical quotation of the item/equipment's:	
Whether the bidder uploaded the signed copy of all annexure including the check list:	
HSN/SAC code of the quoted item/equipment:	
Whether the item/equipment is duty free (upload proper documents / declaration in case of duty-free item):	
Whether the bidder uploaded all documents showing the technical eligibility and financial credibility:	





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Whether the bidder agreed to provide clarification during the evaluation process of the tender:	
Whether uploaded the Authorization Certificate from the Principal/Manufacturer with contact information:	
Price bid should be submitted in excel format as per BOQ	

- Mention "NA" if not applicable

(Signature of the Authorized Person with Organization Seal)

Designation with Contact No:

Company Name:

