

PUBLIC TENDER

2 PART TENDER FOR FURNITURES FOR CCAMP 2nd & 3rd Floor Laboratory

Tender Fee: Rs.700/-, EMD – Rs.2,56,000/-

Cost of Tender : Approx. Rs.126 Lakhs

Last date for Sale of Documents: 05/11/2019 till 16.00hrs

Last date for submission: 06/11/2019 till 14.00hrs

Due date for opening bids: 06/11/2019 at 14.30hrs

GENERAL CONDITIONS

(Tender documents consist of 32 pages, Pg. 1 to Pg.31 – Technical Bid, Pg. 32- Price Bid)

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

- 1 -

Important Instructions: The bids shall be enclosed in an envelope and sealed duly marked "Tender for "Furniture for CCAMP 2nd and 3rd Floor Laboratory" Ref. No. Ref: CCAMP/L-045/2019-2020(C)"; and addressed and to be mailed to "The Head-Purchase". The bids are liable to be rejected if the sealed envelope is not addressed to "The Head-Purchase" with Tender Ref. No. and Item Description. Offers delivered in person shall be deposited in the Tender Box kept in the office. If the bids are sent through courier or mail, it should reach by submission Date and Time and CCAMP will not responsible for the delay.

Important instruction for the Tenderers: - All tenders shall be made in ENGLISH only.

The details in regard to technical specification and other terms and conditions should be cogent and clear to the extent possible.

Sealed tenders are invited at CCAMP - TIFR, GKVK, Bangalore – 560 065 under 2 cover system from reputed reputed **Manufacturers / Suppliers for Supply, Installation, Commissioning and Technical Support for the following:-**

Furniture for CCAMP 2nd and 3rd Floor Laboratory

The Technical and Financial / Price Bids shall be submitted simultaneously in two (2) cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price / Financial. Technical evaluation will be carried out and those Vendors who score minimum 75% and above will qualify for Price Bid opening. Thereafter, Financial Proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred Vendor for award of Order.

I) The EMD amount should be put in first sealed cover – Cover I, and superscribed as "Techno-commercial Bid" and should contain -

1. Acceptance of Technical specifications page 18 - 25 and terms and conditions Pg 9 &10. Tender document to be enclosed with Date, Signature and Seal in every Page.
2. Complete Technical details of the Furniture offered (Specifications, Technical Parameters, Advantages, etc..)
3. Supplier profile, similar of Experience and Ongoing works – **Annexure – A,B & C**
4. Supplier must describe in detail the technical support they will be able to provide in Bangalore. Only those companies will be considered who have engineers based in Bangalore who have been trained on the machines being quoted for, prior to the date of installation.
5. Details of Warranty Services.
6. Details of "After Sales Service" and "Factory Trained Engineers" available in Bangalore.
7. Xerox copies of the Purchase Orders for having supplied similar Furniture in India.
8. Schedule of deviation from specifications / conditions – **Annexure E**
9. Any other information the bidder like to provide with Date, Signature and Seal (Annexures should be duly signed and filled with date where ever necessary) (Please attach additional sheet(s), wherever necessary)
10. Schedule of Quantity with Specification – Pg.
11. Financial information – Annexure F and Performance of Work – Annexure D

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

II) The **second sealed cover** – **Cover II** superscribed '**Price Bid**' (page 26) should contain only rates (**please attach additional sheet(s), wherever necessary**) (should be duly signed with seal and filled with date where ever necessary)

THE ABOVE MENTIONED TWO COVERS SHALL BE SEALED ON THE OUTSIDE WITH WAX SEAL BEARING THE LOGO/NAME OF THE COMPANY SUBMITTING THE BID.

THESE TWO COVERS SHALL BE AGAIN PUT INTO A SINGLE WAX SEALED COVER superscribed "**Furniture for CCAMP 2nd and 3rd Floor Laboratory**" and should reach CCAMP/NCBS on or before **06/11/2019 before 14.00 hrs**". This should be addressed to the Head-Purchase, CCAMP/NCBS-TIFR, GKVK, Bangalore – 65. The Techno – Commercial Bid will be opened on **06/11/2019 at 14.30 hrs**.

On the date of tender opening (i.e. on **06/11/2019**), only the **Techno-Commercial Bids** shall be opened in the presence of attending tenderers.

The Technical and Financial / Price Bids shall be submitted simultaneously in two (2) cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price / Financial. The Technical and Financial / Price Bids shall be submitted simultaneously in two (2) cover (sealed) system. The proposals shall be evaluated in two stages: (1) Technical and (2) Price / Financial. Technical evaluation will be carried out and those Vendors who score minimum 75% and above will qualify for Price Bid opening. Thereafter, Financial Proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred Vendor for award of Order.

- 1.1 Quotations must be submitted giving complete details using enclosed tender papers.
- 1.2 Each page of the tender except the Price & Delivery part shall be on printed letterheads or forms and bear the signature, date, name and designation of the person signing the offer. If they are not on letterheads, a rubber stamp indicating full name, address and phone No., Telex No., Fax No. etc. of the firm shall be affixed at the end of each page.
- 1.3 This tender document is not transferable. Only the party to whom the tender documents have been issued shall be entitled to quote.
- 1.4 Bids containing erasures or alterations are liable to be rejected unless countersigned by the Authorised signatory.
- 1.5 All rates and total amount should be written both in figures and in words and if there is any discrepancy between the two, the lowest amount only will be considered.
- 1.6 Tenders will be opened in the presence of attending tenderers on **06/11/2019 at 14.30 hours**. In the event the due date is declared as holiday, the tender will be opened on the following working day.
- 1.7 If the item offered is to be imported, arrangements for import will be made by the Institute. Import duty and customs clearance will be under purchaser's scope.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

- 1.9 We reserve the right to place order for part/reduced quantity than what is specified in the tender and also reserve the right to split the order to more than one supplier.
- 1.7 Tenders will be opened in the presence of attending tenderers on **06/11/2019 at 14.30 hours**. In the event the due date is declared as holiday, the tender will be opened on the following working day.
- 1.8 If the item offered is to be imported, arrangements for import will be made by the Institute. Import duty and customs clearance will be under purchaser's scope.
- 1.9 We reserve the right to place order for part/reduced quantity than what is specified in the tender and also reserve the right to split the order to more than one supplier.
- 1.10 Any deviation/substitution in regard to the technical specification must be indicated in Annexure E of this tender document. Otherwise it shall be binding on the bidder to supply the items as specified in this tender specification.
- 1.11 All bids are to be submitted before the due date and time. **The bids shall be enclosed in an envelope and sealed duly marked "Furniture for CCAMP 2nd and 3rd Floor Laboratory"; Ref. No.Ref: CCAMP/L-045/2019-2020 (C)"; and mailed to the Head- Purchase.** Offers delivered in person shall be deposited in the Tender Box kept in the office.
Due date for opening the bids: 06/11/2019 (14.30 hours).
- 1.12 Please return the tender papers including Conditions of Tender as well as the Annexures with your signature, rubber stamp and date affixed on each page.
- 1.13 All bids in response to this invitation of tender should be submitted in a manner and method specified above. Tender which do not comply with the above conditions are liable to be rejected.
- 1.14 Late and delayed tenders will not be considered. Therefore tenderers shall ensure that the tender reaches the Purchaser on or before the due date and time stipulated for receipt of bids.

TENDERS RECEIVED LATE OR AFTER THE DUE DATE WILL NOT BE CONSIDERED. CCAMP RESERVES THE RIGHT TO ACCEPT, REJECT ANY OR ALL TENDERS WITHOUT ASSIGNING ANY REASONS THERE OF.

- 1.15 Individuals signing the bid form and other supporting documents must specify the capacity in which they sign, like -
 - a) Whether signing as a Sole Proprietor of the firm or his attorney.
 - b) Whether signing as a partner of the firm or his attorney
 - c) Whether signing for the firm as Agent.
 - d) Whether signing as Director of a Limited Company.

2. CATALOGUE/TECHNICAL LITERATURE

All necessary catalogue/drawing literature/data and details of item/s as are considered to be essential for full and correct evaluation of the bid shall invariably accompany the bid.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

 3. BID GUARANTEE / EARNEST MONEY DEPOSIT:- Bid Guarantee amount details are as below:-

Sl. No.	Item Description	BGA/EMD Amount
1.	Furniture for CCAMP 2 nd and 3 rd Floor Laboratory	Rs.2,56,000.00

The EMD/BGA shall be submitted by a DD (for outstation firms) or Banker's cheque (in case of local firm) from a Commercial Bank/ Foreign Bank (First class Bank) along with the bid, drawn in favour of "Centre for Cellular and Molecular Platforms, Bangalore". Alternatively, the EMD amount may be submitted by way of Bank Guarantee from a Commercial Bank/ Foreign Bank (First class Bank) valid for 6 months (no other mode of payment will be accepted). The BGA amount will be forfeited if the successful bidder fails to accept the Letter of Intent/ Purchase order or withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender. The offers are liable to be rejected, at the discretion of the Centre, if they are not accompanied with BGA. No interest shall be payable by CCAMP for BGA amount. The BGA shall be refunded to the unsuccessful bidders once the order is released on the successful bidder.

Micro and Small Enterprises (MSEs):

1. Micro and Small Enterprises (MSE) must, along with their offer, provide proof of their being registered as MSE (indicating the terminal validity date of their registration) for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (Ministry of MSME)

2. The MSEs are exempted from payment of earnest money and tender fees subject to furnishing of relevant valid certificate for claiming exemption as per privilege rules of Government of India.

3. The bidder submits registration of Udyog Adhar Memorandum (UAM) by Ministry of Micro Small and Medium Enterprises (MSME) vendors on Central Public Procurement Portal (CPPP). The bidders who fail to submit UAM number shall not be able to avail the benefits available to MSEs as contained in Public Procurement Policy for MSEs Order 2012 issued by MSME.

4. AUTHORITY OF AGENTS:- In case where a bid is submitted by an Indian Agent on behalf of his foreign principal, such bid should be supported with a letter of Authority from the principal that the Indian Agent has been authorised to submit the bid on behalf of the principal. The indigenous manufacturers shall submit their bids directly.

5. PRICE:- **If The Tenders are quoted in currencies – INR/ USD/Euro/JPY/GBP/SGD/CAD or any other currencies approved/traded by RBI.** The price/s quoted shall be firm till the complete execution of the order. All details relating to price, price breakup, inland transportation, documentation, taxes and duties, levies, Road/AIR/Marine freight charges, delivery terms (ex-works/F.O.R/F.O.B/C.I.F.) mode of payment, mode of Despatch, Insurance, Agency Commission, if any, shall be paid after satisfactory installation & Commissioning of the goods. The quoted price should be supported with original proforma invoice. The proforma invoice should indicate the percentage of agency commission included in the FOB prices. Indian Agent to be paid in Indian currency.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

For indicating the price, the tenderers may choose any/all of the following:

- a) Ex-works (all other charges to be indicated separately).
- b) F.O.R. site (i.e. Freight, Packing & Forwarding, loading on to the transport, documentation etc. included.) Internal transportation, Freight, Insurance, etc. to be shown separately.
- c) F.O.B (cost of goods, Packing & Forwarding, Inland Transportation, Documentation, etc. till the item is loaded on to the cargo carrier). Freight & Insurance charges to be separately indicated.
- d) C.I.P (cost of goods, packing & forwarding, documentation, freight, insurance, etc. all included). However, freight & insurance charges to be indicated separately. **INSURANCE TO BE COVERED TILL CCAMP STORES.**

6. The taxes (State, Central, Turnover tax, Works Contract Tax, etc.). Please specify which are applicable. The duties and other levies, freight, insurance shall be stated clearly and separately. Also please mention whether the same is included in the price/s quoted.

C-CAMP is also eligible to avail Custom Duty Exemption in accordance with Notification No. 51/96-customs dated 23.07.1996 as amended by GOI Notification No. 93/96 customs dated 11.12.1996, 19/97 dated 01.03.1997, 28/98 dated 02.06.1998, 20/2000 dated 01.03.2000, 24/2002 dated 2002, however the custom duty component should be indicated separately.

7. VALIDITY OF BIDS

The bids should be valid for a period of 180 days from the date of opening of the Price bids. Bids with shorter validity period are liable for rejection.

8. DELIVERY

The tenderer should clearly mention the time required for supplying the item. The period of delivery will be counted (a) from the date of receipt of the order in case of Indian supplier and (b) from the date of opening of letter of credit/receipt of order (in the case of sight draft/advance draft) for foreign suppliers. The delivery date is the date at which the furniture should be delivered at CCAMP.

9. PACKING

The item should be packed appropriately so that it can sustain transit hazards, multiple landing, warehousing, etc. during transit.

10. PLACE OF DELIVERY

In the case of items indigenously manufactured, ALL DELIVERIES shall be effected to the Centre for Cellular and Molecular Platforms, GKVK, Bellary Road, Bangalore-560065, whereas the foreign suppliers shall effect delivery up to Bangalore Airport, India by AIR only unless otherwise specified.

11. GUARANTEE/WARRANTY

The item/s covered under this tender shall be subject to a guarantee for trouble free performance, workmanship, material etc., fulfilling the specifications mentioned in this tender for **36 months** from the date of commissioning. If any defect is found in the material, workmanship or performance during the guarantee period the same may either be repaired/replaced by the supplier as the case may be free of charge. The guarantee period for replacement of parts or repair work shall be same as above. A guarantee certificate to this effect should be forwarded to us with your invoice. For order placed on foreign suppliers, the supplier shall specifically confirm that their Indian representatives, if any, will provide with after sales service and will attend to any repairs or technical problems that may arise.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

12. PERFORMANCE B/G

The successful bidder shall have to execute a performance B/G in accordance with the guarantee/warranty for 10% value of the order. This B/G has to be executed on an appropriate value of stamp paper in terms of a bank guarantee drawn on any Nationalised Bank or first class Foreign Bank and shall remain valid till the completion of the Defect Liability period/warranty period, with 6 months claim period.

13. TAXES AND DUTIES

The Centre shall deduct all taxes and duties, as applicable, from time to time from the bills payable.

14. PAYMENT TERMS

As per our Centre, 90% of the payment shall be made through Sight Draft (documents through bank) and balance 10% payable after installation, trial run and subject to acceptance by the group head through SAI and all other relevant documents, with Performance Bank Guarantee for 10% order. All claims shall cease as per the Limitation Act.

15. CLARIFICATIONS

After opening the bids, if it becomes necessary for the purchaser to seek clarifications from the bidders, the same will be sought from the bidders. In such an event, the bidders will furnish all information / clarifications to the purchaser to reach on or before the due date fixed that purpose indicating the Purchaser's tender reference. If the technical clarifications sought do not reach on or before the date fixed, the bids shall be summarily rejected any further notice.

16. RISK CLAUSE

Notwithstanding the other terms therein, the Centre at its option will be entitled to terminate the contract and to avail from elsewhere; at the risk and cost of contractor; either the whole of the contract or any part which the contractor has failed to perform within the time stipulated or if the same performance is not available, the best and the nearest available substitute thereof. The contractor shall be liable for any loss which the Centre may sustain by reason of such risk contract in addition to penalty.

17. DISPUTE AND RESOLUTION

Any dispute or differences between the parties that cannot be settled by mutual discussion at appropriate levels shall be referred to the sole arbitration of the Director, CCAMP or his nominee and his decision in the matter shall be final and binding upon the parties to the dispute. The venue of arbitration proceedings shall be Bangalore. In respect of any matters pertaining to such arbitration, the courts of law in Bangalore will have exclusive jurisdiction.

18. OTHER TERMS

1. If electrical/ AC/ technical works contract, appropriate license defining the required expertise from the approved Licensing authority.
2. The Centre, will at its discretion ask for a solvency certificate from your bankers.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

19. DEFINITION AND MEANINGS

In constructing these conditions, specifications, etc. in the tender document or the Annexures/Appendices the following words shall mean herein assigned definitions except where the subject context is otherwise stated.

PURCHASER : Shall mean the Centre for Cellular and Molecular Platforms.

BID/TENDER : Shall mean the proposal/document that the BIDDER submits in the requested and specified form or otherwise along with Annexures, Appendices, etc.

BIDDER/TENDERER : Shall mean the firm/party who quotes against an enquiry.

CONTRACTOR/SUPPLIER : Shall mean the party to whom a Work Order/Purchase Order is awarded to undertake all or a part of the work covered by this tender document as well as and amendment orders relating to this tender issued by the Purchaser and shall include his/their legal representative, assignee/s or successor/s.

CONTRACT : Shall mean and include the articles of agreement, Declaration form, the general and special conditions, the Annexures, the Schedule of Quantities & rates and the specifications attached hereto and the drawings, if any.

ORDER VALUE : Shall mean total value of the Purchase Order/Work order issued against this tender item including taxes, levies, etc.

20. TECHNICAL SPECIFICATIONS: See as per below

21. For imported items, final price after totaling the prices of the individual items has to be mentioned with estimated freight, insurance, agency commission charges, etc. The price shall be FOR CIF BANGALORE AIRPORT.

22. CCAMP reserves the right to split the quantities or reject one or more offers in full or part without any reasons. Therefore CCAMP decision is final and binding.

23. The quantity mentioned in the tender may be decreased/increased while ordering. However, the price quoted should be firm irrespective of change in the quantity.

24. ACCEPTANCE OF TENDERS

CCAMP does not pledge itself to accept the lowest/ any tenders and reserves to itself the right to accept the whole or part of the tenders or a part of the quantity offered.

25. The firm may quote in Foreign Currency for direct import on CIF basis as well as in Rupees on FOR CCAMP basis for local supply. Please indicate insurance, freight and other charges separately for direct import.

26. Your Service Engineer should be fully trained to install the Furniture and capable of maintaining the equipment during /after the warranty period.

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

27. LIQUIDATED DAMAGES:

The successful bidder will have to agree that in case the item is not supplied within the agreed delivery schedule and after a grace period of seven days, then Liquidated Damages (not in terms of penalty) will be imposed automatically and be deducted from their bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.

Please enter unit price, Total Price and Grand Total in figures as well as words. Unit price and Total Price may be entered below each item.

Since CCAMP is a Public funded Research Organisation, registered with the Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs duty exemption in terms of Government Notifications No.51/96-Customs dated 23.7.1996; No. 24/2007-Customs dated 01.03.2007; No.43/2017-Customs dated 30.06.2017; No. 45/2017-Central Tax (Rate) & 47/2017-Integrated Tax (Rate) dated 14.11.2017; No. 9/2018-Central Tax (Rate), No.09/2018-Union Territory Tax (Rate) & No.10/2018-Integrated Tax (Rate) dated 25.01.2018; and State Tax (Rate) as applicable and all notification.

For and on behalf of
Centre for Cellular and Molecular Platforms



Head – Purchase

SCOPE OF WORK

TERMS & CONDITIONS TO THE TENDERER

1. The work to be done (as per schedule of quantities) consists of all raw materials, tools, implements, Furnitures, labours and services etc., required to execute the work specified in the tender, in accordance with the tenderers design and details and final approved shop drawings etc., which include everything requisite and necessary to complete the entire work properly. Notwithstanding the fact that every item necessarily involved may not be specially mentioned. All work, when finished will be delivered in a complete and undamaged state.
2. The prices quoted including packing, loading, unloading, transportation charges which may be incurred by the Tenderers in the Schedule of quantities shall be inclusive of value of the work described including all cost and expenses which may be required in and for the execution of the work described together with all general rules, liabilities and obligations set forth or implied in these documents C-Camp shall not supply any material towards this work, unless otherwise specified.
3. **Furnishing Laboratories will be taken up in two phase**
 - i. **Phase – I: Second floor Laboratory within 3 months from finalization of tender.**
 - ii. **Phase – II: Third floor Laboratory within 6 months after completion of Second floor.****Hence the tenderer has to quote for both phases and these are valid until completion of both the phases.**
4. **C-Camp reserves the Rights for making full or partial order for Phase – II.**
5. Power supply, if required for work, shall be provided at one point, from where the Tenderers shall make their own arrangements for further extension as may be required for this particular work. Such extensions shall be made in accordance with IS norms and standard conditions.
6. C-Camp shall not be responsible for death, accident or injury to their employees engaged by the Tenderers, which may arise in the course of their duty at our premises, nor shall we be responsible and be liable to pay damage or compensation to such persons or to third parties. The Tenderers will at all times indemnify and keep us indemnified against all claims which may be under the Workmen's Compensation Act, 1923, or any statutory modifications thereof or otherwise for or in respect of any damages or compensation payable in consequence of any accident or injury sustained by any workman or other person whose entry into our premises has been authorized by the Tenderers. Similarly, if any damage to any other person/persons at the Centre or premises or building is attributable to the Tenderers, such damages shall be made good by the Tenderers. Till the work is completed in all respects and handed over to C-Camp, it is the responsibility of the Tenderers to protect his materials from theft, damages due to fire or any such causes.

7. The Tenderers shall be responsible for storing, handling, transporting and custody (including safety) of all materials covered in this Contract including loading and unloading of materials as required. They shall make their own arrangements for completing the work and cleaning as per the instructions of the Head Projects, the Tenderers should keep premises of the work place always clean and tidy. Any dust, rejected or damaged materials, debris etc, generated out of the work should be cleaned and If the cleaning is not done same day, it will be got done by C-Camp and the cost recovered from the bills of the Tenderers.
8. **Tenderer may note that the furniture items will be fabricated in their workshop tested, pre assembled before delivery to site. All installation works shall be undertaken under the able guidance of a site engineer nominated by the tenderer. Only installation, minor adjustments and touchup at site will be allowed.**
9. During installation of the Modular components of lab furniture at site, the Tenderers shall follow all security rules as may be existing at C-Camp Campus with respect to material movement, entry of personnel etc.
10. Work at C-Camp shall be restricted between 09:00 am and 05:30 pm generally. However, this may be relaxed with prior written intimation requesting for extra working hours on week days and holidays, to facilitate early completion.
11. All finished products shall be well packed and delivered to C-Camp, at GKVK Campus, Bangalore. The Tenderers shall make good any damage to the finished product during transportation to C-Camp or installation at site
12. **COMPLETION PERIOD -2 weeks** for mobilization and drawing approval and **3 months** for supply installation and overall completion from the date of work order/letter of intent.
13. **The tenderer shall submit the program chart indicating all stages in the process of fabrication, supply and installation of drawing approval, production, delivery all items of furniture. This shall be submitted along with their Technical and Commercial Bid.**

INFORMATION TO TENDERERS

The Tender shall be evaluated under 2 (Two) Bid system

- I. Technical & Commercial Bid with EMD
- II. Financial Bid

CRITERIA FOR EVALUATION OF THE PERFORMANCE OF INTERIOR FIRM/AGENCY FOR TECHNICAL EVALUATION CRITERIA WITH MARKS			PRE-ELIBILITY
Sl.No.	ATTRIBUTES	MARKS FOR 100	
1	FINANCIAL ANALYSIS: Gross Annual Turnover – to be enclosed minimum for 3years. Documents to be certified by Chartered Accountant with seal and signature.		5
	Enclose copy of Audited Financial Statement of last 3years. Up to 31 st Mar 2019.		5
2	Executed similar Supply of Furniture items to Colleges/Universities/ Government Institutions		20
	i. One Work of similar nature costing Rs.102.40 lakhs (80% of Rs.128.00 lakhs) OR		
	ii. Two works of similar nature costing Rs.76.80 lakhs each (60% of Rs.128.00 lakhs) OR		
	iii. Three works of similar nature costing Rs.51.20 lakhs each (40% of Rs.128.00 lakhs) OR		
3	Performance report from the 3 clients of similar type of Supply executed within 3yrs, Name of work, Location & Purchase / work order No. and Value		25
	i. Date of start & Completion:	5	
	ii. Whether job completed within stipulated date :	2.5	
	iii. Quality of work	5	
	iv. Financial soundness	2.5	
	v. Technical Proficiency	5	
	vi. Resourcefulness	2.5	
	vii. General approach & Behaviour	2.5	
4	Inspection of Job/Supply by committee completed of similar Magnitude anywhere in India by the agencies to access the Quality of job by within 3yrs		20
5	Inspection of Office/Infrastructure and Fabrication Unit of the agency anywhere in India by C-CAMP committee :		25
	i. Executives details	2.5	
	ii. Technical Man power	5	
	iii. Site & Installation team	2.5	
	iv. Tools & Latest equipments & Details of Testing laboratory/ manufacture for indented items.	10	
	v. Premises to fabricate in Large scale	5	
Vendor should score minimum 60% in each attributes & overall 75% is required for Price bid opening			
A combined evaluation will be carried out and those Vendors who score minimum 75% & above will qualify for Price Bid opening. Thereafter, Financial proposal shall be evaluated. The Commercially LOWEST BIDDER shall be the first preferred vendor for award of order.			

**Name of Work: DESIGN AND PROVIDING MODULAR LABORATORY FURNITURE
FOR VERTICAL EXPANSION AT C-CAMP**

TECHNICAL SPECIFICATIONS

1. Laboratory Benches

The design of the laboratory benches shall be modular, flexible, robust, easily cleanable, ergonomic, easy to replace, also include safety aspects.

1.1 Supporting structure:

The tenderer shall suggest their standard supporting structure for laboratory benches which is sleek and elegant, but sturdy. It is preferred to have 'H' frames for better flexibility in front. Cantilever frame / H-frame shall be used only where specified in the drawings.

The metal parts of the supporting structure shall be of prime grade cross section cold-rolled rectangular precision steel pipes or steel profiles of –
2mm thick and cross section 50 x 25mm for 'H' / A frames,

Based on the tenderers design and for working height of 750 and 900 mm with a load bearing capacity of at least 200 kg/m². The entire surface shall be constructed smoothly and homogeneously, for reasons of sanitation.

The frame work shall have flawless appearance and without dents. Sharp profile or plate edges, bore hole edges and exterior corners are not acceptable. All sheet metal components shall be treated and free of scale, without rugged edges, scratches or other injurious effects. All gauges shall be B.S Standard. It must be possible to level each element individually. All butt joints must be welded without visible seams. Wherever welding is required, spot-welded seams are not acceptable. Open threaded rods with ball heads and plastic base plates are not acceptable. The frames shall include bore holes for worktop mounting etc.,

The frames shall have height adjustable feet with levelers for regulating heights easily up to 50 mm with necessary adjustments for steady positioning. The frames shall be held by these feet and raised from the floor by 30 mm for easy cleaning of the floor, and individually adjustable.

Metal / PP / Melamine Cover panels are to be placed at the end of the central benches in the gap between the vertical frames as well as underneath the benches, wherever services are taken, otherwise they can be left open.

1.2 Surface protection/finish coat for the metal components.

- 1.2.1 All the metal components shall be given a pre-paint treatment to provide excellent adhesion of the finish to the steel and to aid in the prevention of corrosion. Physical and chemical cleaning of the steel shall be accomplished by washing with an alkaline cleaner, followed by a spray treatment with a complex metallic phosphate solution to provide a uniform fine-grained crystalline phosphate surface that shall provide both an excellent bond for the finish and enhance the protection provided by the finish against humidity and corrosive chemicals. After the phosphate treatment, the surface shall be dried and all steel surfaces shall be coated with a corrosion-resistant finish, which is explained below.

- 1.2.2 The final surface protection of the steel parts shall be carried out through sandblasting or thermally hardened using chemical tempering with powder coating (epoxy-polyester powder mix). The coating thickness shall be an average of 80 microns.

1.3 Laboratory Benches: Work tops

1.3.1 Work tops made of Granite Slab

Work tops shall be made of first quality 19 – 20mm thick jet black granite slab, machine cut and mirror polished on the top surface and all exposed sides, with the edges grinded on the front face, with a drip mould (groove of 3mm x 3mm on the underside, about 25mm from the front face). The adjoining slabs and the gap between the frame and granite slab, as well as between two adjoining granite slabs shall be filled with silicon sealant. The thickness of the slab shall be uniform, with a tolerance limit of ± 1 mm.

1.4 Anti Vibration Benches

The construction of the benches must provide the worktop with protection against contact and moisture. The supporting structure for the worktop is made of 4-footed heavy duty steel frame made of cold rolled precision steel pipes, 50 mm Sq, 2.0 mm thick, epoxy powder coated to take load of 250 kgs (UDL), with vibration-absorbing elements and levelers. The work top is to be made of combination of 30mm thick jet black, machine cut granite slab, polishing to be done on all exposed surfaces and 16mm thick Trespa Plus Lab top as the final finish for the bench top. 8mm thick, neoprene rubber pads (combination of nitrite rubber cork particles and cross linked polyester fiber) to be placed between the frame work and the granite top, as well as the frame work and floor finish.

1.5 Filler Panels

Panels made of 12mm ply board covered with 0.7 mm matt finish heat pressed laminate on both sides with 0.5 mm PVC edging strips on all edges. The design should allow panels to be removable without using tools.

1.6 Reagent shelves

The reagent shelves shall be made of 18-20 mm thick ply board with high pressed lamination on both top and bottom surfaces and pvc edge band to cover the thickness, 300/400 mm deep, with a rear stop bracket made of metal, and two lateral girders made of metal for fixing onto the brackets. The individual mounting / dismounting of the shelves shall be made possible. The lower two levels of shelves shall have edging raised by 25mm of acrylic or as per tenderers' standard material and design on all open edges to prevent slippage of bottles etc. In case of 3 or 4 rows of reagent shelves specified, the bottom two rows are 300mm deep and provided with guard bars on the open ends and the top two shelves are of 400mm deep and without guard bars.

1.7 Equipment shelves

The equipment shelves are 300 mm deep generally and shall be of the same construction explained above in (1.7).

1. Laboratory sink units:

2.1 Stainless steel sink units:

These are with similar materials for the frame work and worktops as explained in previous clauses; 1.1, 1.2 and 1.3 respectively and are generally positioned perpendicular to the island benches at the end. The sinks provided are to be of size: 500mm x 400mm x 260 mm deep, made of SS 304 grade as indicated in the drawings and schedule enclosed. In case of SS sink counters, it will be a homogeneous molded sink with counter. In case of granite counters, wherever specified, the sinks will be counter sunk on to the granite counter top.

This in turn will have cut outs for laboratory faucet, eye wash, jet wash, complete with discharge nozzle and odor trap. All the exposed cut edges (for placing the sink in case of granite counter) shall have smooth edge and be polished. RO or domestic water supply connections, waste line connection shall be extended from the existing points. 8mm thick Acrylic splash guard shall be positioned to safe guard the surrounding benches from water spray/splash as per drawing. All sinks will be fitted with foot operable pedals for operating the laboratory faucets.

2.3 Drip cup in the worktop:

For special usages, drip cups are integrated into the worktop wherever specified. These drip cups have circumferential edging and made of either stainless steel or polypropylene. The cup measurements are: W / D / H approx. 250 x 100 x 150 mm (complete with discharge nozzle and odor trap).

2.4 Pegboard

Back panel made from single mould of 4mm rigid High Impact Polystyrene with closed end peg sockets to eliminate leakage. Pegboards to be supplied with 18 pegs, mounting kit, a base with draining hose, and fixing template.

2.5 Refuse containers for solid matter and waste

Under bench pedestal units with refuse containers, for the sink, shall be constructed as a pull-out shelf with waste bins or mounted on side hung shutters as the case may be. The covering must automatically open when the pull-out/side hung shutters shelves (to which the accumulation bins are connected) are pulled out. The collection bins shall be fastened accordingly, but variable adjustments of the bin must be possible. The waste bins and collection bins shall be offered as per standard receptacles.

2.6 Single eye washers

- Eye washers should be manufactured as per international standards like EN-norm 15154 – T&2 and ANSI standards.
- On the eye washer, the nozzles are protected by rubber caps to keep the injured person from hurting himself unintentionally. The nozzles are also protected against dust and dirt by the caps which are removed automatically by the initial jet of water. All eye washers are to be delivered with water regulating devices ensuring constant adequate water flow regardless of high water pressure.
- These are to be fitted on the sink counters.

2.7 Safety Station

Safety station comprising of body shower and eye shower, both, mounted on common header pipe fixed to floor. Self draining shower head with minimum working pressure of 1 bar with pull rod for operation, and dual head eye shower with built in FLOW FIX for controlling water, with a collection bowl and push lever for operation, working pr of 1.5 bar, conforming to EN 15154 (T1 for body shower and T2 for eye washer), complete with required signage's.

2. CABINETS AND STORAGE UNITS

3.1 Carcass: Made of 18mm Plyboard covered with 0.7 mm matt finished High Pressure Laminate (HPL), of approved shade, on both sides with 0.5 mm thick PVC edging strips.

Back of Under-bench cabinets and over-bench cabinets made of 8 mm thick plywood covered with similar laminate and set into grooves.

Sink cabinets made of 18 mm marine plyboard covered with 0.7 mm HPL on both sides with 0.5 mm PVC edging strip. Carcass components are pre-drilled before assembly by CNC machine.

3.2 Storages and drawers will be on heavy duty, lockable rollers (4 swivelling castors, with front two lockable) wherever specified, otherwise mounted on plinth bases as specified in the SOQ.

3.3 Doors and Drawer Fronts: Made of 18mm plyboard covered with 0.9 mm quartz finish HPL on both sides with 3 mm PVC edging strips. Each door is mounted with snap-on hinges with 180/270 degree hinges.

Drawer sides bottom made of 12 mm plyboard covered with 0.7 mm matt finish HPL on both sides. Base of drawers made of 18 mm plyboard covered with 0.7 mm HPL on both sides, with fully extendable drawer compartments with load bearing capacity of 30 kgs.

3.4 Shelves

Interior shelves in cupboards made of 18mm plyboard covered with 0.7 mm white matt finish HPL on both sides with 0.5 mm white PVC edging strips on four edges. Shelves are adjustable for regular heights of 32mm and mounted on suitable supports, with load bearing capacity of each shelf being 30 kgs.

3.5 Suspended under bench units (on to H-Frame)

The construction shall be as described above, with the following specifications:

Construction of the rear panel: Double-sided plastic coated melamine resin ply board, 10 /12 mm thick, bonded to the carcass.

The upper covering shall be constructed as both a work and storage space. This shall additionally be constructed from double-sided plastic coated melamine resin ply board, 18 mm thick. Suspended under bench units, if required, shall be designed to be mounted on 2 horizontal bars of the table, without additional tools.

3.6 Pull out storage system

Cabinets body made of 18 mm plywood covered with 0.7 mm matt finish HPL on both sides with 0.5 mm white PVC edging. Cabinets back made of 8 mm plyboards covered with 0.7 mm quartz finish HPL on both sides / poly propylene, set into grooves. Pull out doors made of 18 mm plyboards covered with 0.7 mm quartz finish HPL on both sides with 3 mm PVC edging strips. Pull out sliding system should be supplied with full extension rails with load carrying capacity of 100 kg (each tray 10kgs), upper and lower guides, support frame, front guide, and holder. Each compartment supplied with five hook-on baskets / trays. The pull out cabinet doors shall have verification layer at the top & bottom.

4. HARDWARE/FITTINGS/ACCESSORIES

4.1 Hinges

Hinges have a maximum opening angle of 180 degree and 270 degree in case of corner units. These hinges are heavy duty self closing, snap-on type, adjustable in all three sides and no tools are to be required to remove or mount the doors.

4.2 Drawer slides

Integrated drawer slide type that acts both as drawer slide and side panel. Automatically assembled using press machine. Made of epoxy powder coated steel running on nylon runners. Self closing feature with 60 mm closing range and with height and side adjustment facility. To be designed for a continuous load capacity: 30 kg.

4.3 Adjustable feet/Levelers

Frame work sides supplied with adjustment feet to avoid unevenness of floor ± 15 mm. Adjustment feet made of black polyethylene plastic material with M10 galvanized steel thread. Thread length 38 mm to obtain ± 15 mm adjustment. The levelers shall be concealed with shoes.

4.4 Handle

Under-bench and wall cabinets supplied with flush, full length grab-rail made of stainless steel profile set into groove on top of doors and drawer fronts preferred.

4.5 Wall suspension fittings

Wall cabinets are hung using suspension fittings/anchor bolts. Fittings are adjustable in 3 dimensions with load capacity of 150 kg per pair.

4.6 Heavy Duty Lockable Castors

The under bench unit and storage units, wherever specified shall be equipped with 4 guide rollers (castors adjusted to the height of the plinth) approx. 90 - 110 mm high, two of which shall have locking devices. The load capacity of each roller must be at least 70 kg.

3. SERVICE DUCTS/TRUNKING

Service ducts comprises of both vertical & horizontal trunking.

The trunking allows the implementation of gaseous and hydrous service extraction as well as the power cables for electrical sockets, IT and control engineering. The introduction of services to the extractors is carried out, according to the item descriptions, via diverse carrier systems with which the service duct is combined. The service duct shall be 110mm- 150mm deep for single sided or when placed perpendicular to the island bench, and 300-350mm deep for double sided when placed centrally. The vertical trunking rises from the floor/bench top upto the service floor above the main floor and gets connected to a horizontal trunking running at 450-600mm from the bench top, as specified in SOQ and drawings enclosed.

The bench-mounted service ducts shall be designed in modular form such that they can be retrofitted, altered or dismantled by the user himself, at any time, if required. Both the horizontal and vertical trunking shall be statically and dynamically fixed with a joining technique that leave them detachable.

The vertical service ducts shall have 3 compartments within, to run gaseous-hydrous services Electrical- IT services, all independent of each other. All services are to be dropped from the service floor above.

Vertical trunking to be provided with side hung shutter, lockable at the top, at the lower level where services enter the horizontal trunking, accessible from the lab floor.

The waterproofing according to IP 44 shall be ensured and verified.

The service trunking shall made of coated galvanized steel and powder coated with a polyester epoxy powder mix (powder coating with an average 80 microns), after the pre coating treatments, explained earlier. Alternatively ply board with HPL on both sides may be used.

The vertical trunking shall raise upto 3000 mm high from high bench top. The vertical trunking shall have 2 nos. of lockable doors – one below the false ceiling and the other 150 mm above the bench top.

The horizontal trunking modules: The modular design of the ducts must be ensured, in order to allow for later service supplements. The service duct shall be built so as to allow for the tool-less assembly and disassembly of accessories. Continuous adjustment in horizontal & vertical planes shall be implemented over the entire length of the service duct.

4. SERVICE SUPPLY

This includes providing sanitary services, waste water, electrical services, laboratory mechanical fittings etc. Necessary extensions shall be provided from the points already available at site.

7.1 Sanitary Services

The identification of the taps and fittings shall be in accordance with EN 13 792. The dimensions of the ground pipes shall follow current engineering regulations, e.g. DIN 1988; DVGW -TRGI 1986; TRAC, TRGL; etc.

Drinking water protection in accordance with DIN 1988, part 4 and EN 1717 or relevant IS Codes must be provided on-site. All pipes, including connections, shall be inspected at the time of assembly and documented with inspection certificates.

7.2 Waste water

High-density (HDPE) polyethylene pipes or equivalent material shall be used as drains. Drain traps made of polypropylene (PP) for the sink drains shall be cleanable.

7.3 Electrical services

The electrical installation shall be designed in a flexible manner. An expansion, addition or alteration must be possible with system components. For this purpose, electric fixtures such as sockets, command elements and fuses in electrical modules shall be wired ready for installation. The line links shall be flexible and ready to plug in. The electrical supply with the electrical system shall be conducted separately from the other services. Within the electrical supply, raw power, UPS power lines shall be separated. In addition, IT services shall run in separate compartments. Each modular lab bench unit shall have provision for the following:

- a. 2 nos. of 5/15 amps raw power points with universal sockets
- b. 2 nos of 5/15amps UPS power points with universal sockets
- c. 1 no. of 15 amps point on raw power supply (on every alternate bench in case of cluster of benches 1 no. data outlet
- d. In addition to these, an island bench cluster shall have 1 no. of 5/15amps raw power point and 1 no. 5/15 amps UPS power point with international sockets, on either ends of both the sides. In case of linear benches, one set of these shall be provided.
- e. Light switch

5. Laboratory Mechanical Fittings

8.1 Fittings are manufactured according to ISO 9001 standard/EN 29001/BS 5750 part and made from best quality brass (DIN 17660). Fittings are surface-treated with highly chemical resistant powder lacquer.

8.2 Maximum working pressure for water fittings.

- i. Normal water fitting
- ii. Pedal operable Laboratory faucet
- iii. Jet wash
- iv. Eye wash

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

BILL OF QUANTITY - PHASE I

Sl.No	Description	Qty.	Unit rate	Amount
1	Design, fabricating & installation of Modular Cluster of Island laboratory High & low benches as specified in the drawing and individual items of overall Size: 9500mm (L) x 1500 (D) x 900 + 1100mm (H) with necessary frame work, granite bench top, reagent shelves, under bench pedestal storage, over head storage units etc., as detailed and complete with all necessary accessories and hardware as per description in individual items, technical specification, drawing & instruction of the Officer Incharge.	3 set		
a	Frame work: MS powdercoated supporting frame work of 25 x 50 x 16g for side, top, bottom & twin vertical support upto reagent shelf level with built in MS levellers for vertical leg frame. Supporting details of frame to be matched the existing size & design.			
b	Bench top: 20mm thick machine cut jet black polished granite slab with edge polish on all four sides and drip mould along the front surface placed on top frames with levellers.			
c	Reagent shelves: The main frame using 25 x 25 x 16g fixed to vertical frame on either side at four levels of shelves made of 12mm thick prelaminated board ply with PVC edge beading on all exposed surfaces of board. First and second row are 600mm deep & top two rows are 800mm deep and provided with SS guard bar on the exposed sides to prevent falling of any items placed on the reagent shelves on the lower two rows only			
d	Horizontal spine metal boxing with powder coated fixed below reagent shelves frame 600mm above the high bench top for routing service lines with separate divider / slots for UPS, RAW & LAN / Voice lines routing along the length of high bench / low bench using 1.5mm thick MS powder coated sheet metal and on the both front surfaces cut outs (as per instruction) to be provided for fixing faceplates / socets.			
e	Vertical spine for routing services lines from false ceiling level to the top of lab high bench using 20mm prelam MDF board (BSL) with edge beading on all exposed surface. The inner surface will have 3 slots for routing cables. For maintenance / routing cables the front surface (above sink) are provided with removable shutter at levels of size of box / vertical spine is 600 (L) x 100 (D) x 2500 (H)mm			
f	Sink unit on the Island bench of Size: 1500 (L) x 700 (D) x 900mm (H). Table top using 20mm thick polished granite slab with edge polish all the sides and front edge bull nose and drip mould is provided underneath of granite bench for the front surface. 8mm thick toughened glass splash guard of 600mm high along the length of the sink with chamfered at top ends and edge polished on all the cut surfaces and fixed to the table top with silicon seat. Sink bench is supported on MS powder coated frame work (Top, side & back frame) of 25 x 50 x 16g, storage unit below the counter using 20mm thick, prelam water proof ply (BSL) for boxing plinth at low level, shutter and intermediate support at centre & horizontal PVC edge beading for the exposed surface of the board. Complete with necessary accessories with soft self closing hinges, one shutter provided with adjustable PVC waste bin, foot operating valve with long faucet, SS sink bowl of 304 grade of 400 - 500mm (L) x 400 - 450mm (W) x 300 - 350mm (D) and necessary plumbing accessories to route inlet & outlet lines upto the existing source.			
g	Supply & fixing peg board above sink with necessary accessories and hardware using acrylic / PP mounted on vertical spine with 16 pegs holder - 1 Set.			
h	Supply & placing under bench pedestal unit below the laboratory benches using 18mm thick prelam MDF board (BSL) for outer boxing, draw shutter and base of drawer unit, 12mm thick prelam MDF board (BSL) for backing, drawer slides etc and cut edge of board finished with PVC lipping. Complete with necessary accessories like flush type SS handles, Soft closing hinges, drawer slides / channels, castors, lock etc.,			
h.1	Size of drawer unit below high bench: 450mm (L) x 500mm (D) x 650 (H)mm consisting of 2 sleek draw & one large draw at bottom (2 + F)			
h.2	Size of drawer unit below low bench: 450mm (L) x 500mm (D) x 650 (H)mm consisting of 1 sleek drawer & one large drawer for files (1+F).			
h.3	Size of sleek draw unit below high bench fixed 700mm long x 500mm deep x 100mm high (8nos for each cluster of bench)			

i	Supply & installation of overhead storage unit above low bench & fixed on either side on to vertical frame and base frame at back to back as per the drawing & specification. Using 20mm thick prelam MDF board (BSL) for outer boxing & intermediate shelves. 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm around with 4mm thick clear glass for shutter exposed surface of the board finished using PVC edge beading. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges etc of Size: 1000 (L) x 350 (D) x 600 (H)mm (4nos + 4nos back to back for each bench)			
j	Combination of white & soft board on both side at the center of the island low bench fixed on the either side of the vertical support & below overhead storage unit. Using 10mm thick toughened glass with edge polish on all sides of Size: 900 (L) x 300 (H)mm and soft board slid on the glass using GI base with 12mm thick soft board / cellotex board wrapped with cotton fabric and fixed to alluminum channels of Size: 400 (L) x 300 (H)mm			
j.1	Glass board of Size:900mm (L) x 300mm (H) - 4Nos for each cluster high bench			
j.2	Soft board of Size: 400mm (L) x 300mm (H) - 8Nos for each cluster high bench			
k	Providing privacy panel using 8mm thick clear acrylic of Size: 700mm (L) x 150mm (H) with edge polish on all sides and fixed to frame Ref dwg No.: NCBS/CCAMP/VE/INT - 01 & 02 Layout No: NCBS/CCAMP/VE/SF/Lay - 01			
2	Supply & placing Modular Island lab bench with same specification as mentioned above in item no 1 but without sink & accessories. Instead of sink providing storage unit below counter with intermediate shelf & opaque shutter. Complete with necessary accessories & hardwares overall size: 9500mm + 700mm (L) x 1500mm (D) x 900mm + 1100mm (H) Ref dwg No.: NCBS/CCAMP/VE/INT - 01 & 02 Layout No: NCBS/CCAMP/VE/SF/Lay - 01	3 set		
3	Supply & placing standalone equipment high bench with storage below and one row of reagent shelf with horizontal spine for mounting cables and overhead storage with wooden frame glazed shutter. Overall Size: 1350 (L) x 700 (D) x 900 + 1350 (H)mm as per the specification & drawing enclosed. Ref Dwg No. - NCBS/CCamp/VE/INT-07			
a	Frame work: Using 25 x 50 x 16g twin vertical frame for support with MS adjustable leveller & remaining frames using 25 x 50 x 16g for side frame, top frame, back frame with powder coating. Reagent shelf is supported on 25 x 25 x 16g MS powder coated frame and fixed either side of the vertical frame and overhead storage unit is supported on MS powder coated brackets at bottom and fixed on either side of vertical frames			
b	Table top: 20mm thick machine cut polished jet black granite work top including edge polishing on all four sides and mounted on top frame (self adjusting leveller).			
c	Reagent shelves using 20mm thick prelam MDF board with PVC edge banding on all cut edges of 250mm depth with guard bars on all four sides and mounted on MS powder coated frames at box and supported on side vertical frame.	8 set		
d	Horizontal spine fixed below reagent shelf for routing cables with there slots inside using MS powder coated boxing with cut out at front surfaces for fixing faceplates.			
e	Supply & installation of overhead storage unit above & fixed on either side on to vertical frame and bottom to hold the unit as per the drawing & specification. Using 20mm thick prelam MDF board (BSL) for outer boxing & intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm around with 6mm thick clear glass for shutter. Exposed surface of the board finished using PVC edge beading. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges etc of Size: 1300 (L) x 350 (D) x 600 (H)mm			

f	Supply & placing under bench pedestal unit below the laboratory benches using 18mm thick prelam MDF board (BSL) for outer boxing, draw shutter and base of drawer unit, 12mm thick prelam MDF board (BSL) for backing, drawer slides etc and cut edge of board finished with PVC lipping. Complete with necessary accessories like flush type SS handles, Soft closing hinges, drawer slides / channels, castors, lock etc., as per the drawing & specification enclosed of Size: 1280mm (L) x 450mm (D) x 820mm (H)			
g	The entire unit is mounted on adjustable leveller. Complete with necessary accessories and hardware. Ref dwg No.: NCBS/CCAMP/VE/INT - 07 Layout No: NCBS/CCAMP/VE/SF/Lay - 01			
4	Supply & placing Equipment table with one row of reagent shelf above & storage unit below / Granite platform			
a	Frame work: MS powdercoated supporting frame work of 25 x 50 x 16g for side, top, bottom & twin vertical support upto reagent shelf level with built in MS levellers for vertical leg frame. Supporting details of frame to be matched the existing size & design.			
b	Bench top: 20mm thick machine cut jet black polished granite slab with edge polish on all four sides and drip mould along the front surface placed on top frames with levellers.			
c	One row of Reagent shelves: The main frame using 25 x 25 x 16g fixed to vertical frame on either side above the table to with shelf made of 12mm thick prelam board with PVC edge beading on all exposed surface of board of 350mm depth and provided with SS guard bars on four sides to prevent falling of any items placed on the reagent shelves.			
d	Horizontal spine metal boxing with powder coated fixed below reagent shelves frame 600mm above the high bench top for routing service lines with separate divider / slots for UPS, RAW & LAN / Voice lines routing along the length of high bench / low bench using 1.5mm thick MS powder coated sheet metal and on the both front surfaces cut outs (as per instruction) to be provided for fixing faceplates / socets.			
e	Supply & placing storage unit below with soft closing drawers (1+3) on castors Size: 1300mm / 1250mm (L) x 450mm (D) x 820mm (H) using 18mmth prelam MDF board (BSL) for backing & drawer sides. All exposed surface of board finished using 4mm thick PVC edge beading. Complete with necessary accessories & hardware like flush type handle, tower bolt, soft closing drawer slides & entire unit mounted on lockable castors.			
f	Supply & placing 20mm thick machine cut polished granite slab mounted on MS powder coated frame of 25mm x 50mm x 16g bolted to side / vertical frame on either side. All the four sides of the granite cut surface to be edge polished. Complete with necessary accessories & hardware. Ref dwg No: NCBS/CCAMP/VE/INT - 06 Layout No: NCBS/CCAMP/VE/SF/Lay - 01			
f.1	Size: 1500mm (L) x 750mm (D) x 900mm + 450mm (H) with granite platform below & one row of reagent shelves above.	7 set		
f.2	Size: 1250mm (L) x 750mm (D) x 900mm + 450mm (H) with storage unit below & one row of reagent shelves above.	7 set		
5	Supply and fixing Overhead storage unit in common equipment room onto existing masonry wall using 18mm thick prelam MDF board (BSL) for boxing and intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm allround with 6mm thick clear glass for shutter. All exposed surface of board finished using 4mm thick PVC edge beading. Complete with necessary accessories and hardware like flush type handle, tower bolt, magnetic ball catch etc. Ref dwg No.: NCBS/CCAMP/VE/INT - 06 Layout No: NCBS/CCAMP/VE/SF/Lay - 01			
5.1	Size: 1200mm (L) x 400mm (D) x 750mm (H)	12Nos		
5.2	Size: 950mm (L) x 400mm (D) x 750mm (H)	6 Nos		
5.3	Size: 900mm (L) x 400mm (D) x 750mm (H)	3 Nos		

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

6	Supply & placing of Low storage unit with two intermediate shelves in between and glass shutter with rubber wood frame work and entire unit mounted on adjustable leveller. Using 18mm thick prelam MDF board (BSL) for outer boxing and intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 75mm alround with 6mm thick clear glass for shutter. All the exposed surface of the board finished using PVC lipping. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges & MS adjustable leveller of Size: 900mm (L) x 400mm (D) x 930mm (H) Ref dwg No.: NCBS/CCAMP/VE/INT - 05	11 Nos		
7	Supply & placing Full height storage unit with fixed intermediate shelves in between and rubber wood framed glass shutter and entire unit is mounted on lockable castors. Using 25mm thick prelam MDF board (BSL) for outer boxing, 12mm thick prelam MDF backing, 18mm thick prelam MDF (BSL) for intermediate shelves, 20mm thick rubber wood runner for supporting intermediate shelves fixed on sides and shutter frame using 25mm x 75mm with 6mm thick glass. Complete with necessary accessories and hardware like SS flush type handle, magnetic ball catch, tower bolt, hinges, lock etc. of Size: 900mm (L) x 400mm (D) x 2100mm (H) Ref dwg No.: NCBS/CCAMP/VE/INT - 05 Ref dwg No.: NCBS/CCAMP/VE/INT - 07	7 Nos		
8	SAFTEY SHOWER			
	Fabricating, Supplying and fixing of Broen, Water Saver or equivalent make safety stations including safety shower and eye wash mounted on a common vertical pipe fixed to the floor, including providing connections from existing water supply points and connecting waste water lying to existing floor trap available at site, complete with all necessary hardwares, pull chains / lever for operating, signage etc., as per manufacturer's technical specification. Instructions of the Officer-Incharge.	2 Nos.		

NOTE:

Please refer Below Link for the Drawing's:- <http://www.ccamp.res.in/furnishing-interiors-laboratory>

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

BILL OF QUANTITY - PHASE II

Sl.No	Description	Qty.	Unit rate	Amount
A	LABORATORY BENCHES WITH STORAGE			
1	Design, fabricating & installation of Modular Cluster of Island laboratory High & low benches as specified in the drawing and individual items of overall Size: 9500mm (L) x 1500 (D) x 900 + 1100mm (H) with necessary frame work, granite bench top, reagent shelves, under bench pedestal storage, over head storage units etc., as detailed and complete with all necessary accessories and hardware as per description in individual items, technical specification, drawing & instruction of the Officer Incharge.			
a	Frame work: MS powdercoated supporting frame work of 25 x 50 x 16g for side, top, bottom & twin vertical support upto reagent shelf level with built in MS levellers for vertical leg frame. Supporting details of frame to be matched the existing size & design.			
b	Bench top: 20mm thick machine cut jet black polished granite slab with edge polish on all four sides and drip mould along the front surface placed on top frames with levellers.			
c	Reagent shelves: The main frame using 25 x 25 x 16g fixed to vertical frame on either side at four levels of shelves made of 12mm thick prelaminated board ply with PVC edge beading on all exposed surfaces of board. First and second row are 600mm deep & top two rows are 800mm deep and provided with SS guard bar on the exposed sides to prevent falling of any items placed on the reagent shelves on the lower two rows only			
d	Horizontal spine metal boxing with powder coated fixed below reagent shelves frame 600mm above the high bench top for routing service lines with separate divider / slots for UPS, RAW & LAN / Voice lines routing along the length of high bench / low bench using 1.5mm thick MS powder coated sheet metal and on the both front surfaces cut outs (as per instruction) to be provided for fixing faceplates / socets.			
e	Vertical spine for routing services lines from false ceiling level to the top of lab high bench using 20mm prelam MDF board (BSL) with edge beading on all exposed surface. The inner surface will have 3 slots for routing cables. For maintenance / routing cables the front surface (above sink) are provided with removable shutter at levels of size of box / vertical spine is 600 (L) x 100 (D) x 2500 (H)mm			
f	Sink unit on the Island bench of Size: 1500 (L) x 700 (D) x 900mm (H). Table top using 20mm thick polished granite slab with edge polish all the sides and front edge bull nose and drip mould is provided underneath of granite bench for the front surface. 8mm thick toughened glass splash guard of 600mm high along the length of the sink with chamfered at top ends and edge polished on all the cut surfaces and fixed to the table top with silicon seat. Sink bench is supported on MS powder coated frame work (Top, side & back frame) of 25 x 50 x 16g, storage unit below the counter using 20mm thick, prelam water proof ply (BSL) for boxing plinth at low level, shutter and intermediate support at centre & horizontal PVC edge beading for the exposed surface of the board. Complete with necessary accessories with soft self closing hinges, one shutter provided with adjustable PVC waste bin, foot operating valve with long faucet, SS sink bowl of 304 grade of 400 - 500mm (L) x 400 - 450mm (W) x 300 - 350mm (D) and necessary plumbing accessories to route inlet & outlet lines upto the existing source.	3 set		
g	Supply & fixing peg board above sink with necessary accessories and hardware using acrylic / PP mounted on vertical spine with 16 pegs holder - 1 Set.			
h	Supply & placing under bench pedestal unit below the laboratory benches using 18mm thick prelam MDF board (BSL) for outer boxing, draw shutter and base of drawer unit, 12mm thick prelam MDF board (BSL) for backing, drawer slides etc and cut edge of board finished with PVC lipping. Complete with necessary accessories like flush type SS handles, Soft closing hinges, drawer slides / channels, castors, lock etc.,			
h.1	Size of drawer unit below high bench: 450mm (L) x 500mm (D) x 650 (H)mm consisting of 2 sleek draw & one large draw at bottom (2+F)			
h.2	Size of drawer unit below low bench: 450mm (L) x 500mm (D) x 650 (H)mm consisting of 1 sleek drawer & one large drawer for files (1+F).			
h.3	Size of sleek draw unit below high bench fixed 700mm long x 500mm deep x 100mm high (8nos for each cluster of bench)			

i	Supply & installation of overhead storage unit above low bench & fixed on either side on to vertical frame and base frame at back to back as per the drawing & specification. Using 20mm thick prelam MDF board (BSL) for outer boxing & intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm alround with 4mm thick clear glass for shutter exposed surface of the board finished using PVC edge beading. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges etc of Size: 1000 (L) x 350 (D) x 600 (H)mm (4nos + 4nos back to back for each bench)			
j	Combination of white & soft board on both side at the center of the island low bench fixed on the either side of the vertical support & below overhead storage unit. Using 10mm thick toughened glass with edge polish on all sides of Size: 900 (L) x 300 (H)mm and soft board slided on the glass using GI base with 12mm thick soft board / cellotex board wrapped with cotton fabric and fixed to alluminum channels of Size: 400 (L) x 300 (H)mm			
j.1	Glass board of Size:900mm (L) x 300mm (H) - 4Nos for each cluster high bench			
j.2	Soft board of Size: 400mm (L) x 300mm (H) - 8Nos for each cluster high bench			
k	Providing privacy panel using 8mm thick clear acrylic of Size: 700mm (L) x 150mm (H) with edge polish on all sides and fixed to frame			
2	Supply & placing Modular Island lab bench with same specification as mentioned above in item no 1 but without sink & accessories. Instead of sink providing storage unit below counter with intermediate shelf & opaque shutter. Complete with necessary accessories & hardwares overall size: 9500mm + 700mm (L) x 1500mm (D) x 900mm + 1100mm (H)	3 set		
3	Supply & placing standalone equipment high bench with storage below and one row of reagent shelf with horizontal spine for mounting cables and overhead storage with wooden frame glazed shutter. Overall Size: 1350 (L) x 700 (D) x 900 + 1350 (H)mm as per the specification & drawing enclosed. Ref dwg No. -			
a	Frame work: Using 25 x 50 x 16g twin vertical frame for support with MS adjustable leveller & remaining frames using 25 x 50 x 16g for side frame, top frame, back frame with powder coating. Reagent shelf is supported on 25 x 25 x 16g MS powder coated frame and fixed either side of the vertical frame and overhead storage unit is supported on MS powder coated brackets at bottom and fixed on either side of vertical frames			
b	Table top: 20mm thick machine cut polished jet black granite work top including edge polishing on all four sides and mounted on top frame (self adjusting leveller).			
c	Reagent shelf: Using 20mm thick prelam MDF board with PVC edge banding on all cut edges of 250mm depth with guard bars on all four sides and mounted on MS powder coated frames at box & supported on side vertical frame			
d	Horizontal spine fixed below reagent shelf for routing cables with there slots inside using MS powder coated boxing with cut out at front surfaces for fixing faceplates.	6 set		
e	Supply & installation of overhead storage unit above & fixed on either side on to vertical frame and bottom to hold the unit as per the drawing & specification. Using 20mm thick prelam MDF board (BSL) for outer boxing & intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm alround with 6mm thick clear glass for shutter. Exposed surface of the board finished using PVC edge beading. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges etc of Size: 1300 (L) x 350 (D) x 600 (H)mm			
f	Supply & placing under bench pedestal unit below the laboratory benches using 18mm thick prelam MDF board (BSL) for outer boxing, draw shutter and base of drawer unit, 12mm thick prelam MDF board (BSL) for backing, drawer slides etc and cut edge of board finished with PVC lipping. Complete with necessary accessories like flush type SS handles, Soft closing hinges, drawer slides / channels, castors, lock etc., as per the drawing & specification enclosed of Size: 1280mm (L) x 450mm (D) x 820mm (H)			
g	The entire unit is mounted on adjustable leveller. Complete with necessary accessories and hardware.			

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

4	Supply & placing Equipment table with one row of reagent shelf above & storage unit below / Granite platform			
a	Frame work: MS powdercoated supporting frame work of 25 x 50 x 16g for side, top, bottom & twin vertical support upto reagent shelf level with built in MS levellers for vertical leg frame. Supporting details of frame to be matched the existing size & design.			
b	Bench top: 20mm thick machine cut jet black polished granite slab with edge polish on all four sides and drip mould along the front surface placed on top frames with levellers.			
c	One row of Reagent shelves: The main frame using 25 x 25 x 16g fixed to vertical frame on either side above the table to with shelf made of 12mm thick prelam board with PVC edge beading on all exposed surface of board of 350mm depth and provided with SS guard bars on four sides to prevent failing of any items placed on the reagent shelves.			
d	Horizontal spine metal boxing with powder coated fixed below reagent shelves frame 600mm above the high bench top for routing service lines with separate divider / slots for UPS, RAW & LAN / Voice lines routing along the length of high bench / low bench using 1.5mm thick MS powder coated sheet metal and on the both front surfaces cut outs (as per instruction) to be provided for fixing faceplates / socets.			
e	Supply & placing storage unit below with soft closing drawers (1+3) on castors Size: 1300mm / 1250mm (L) x 450mm (D) x 820mm (H) using 18mmth prelam MDF board (BSL) for backing & drawer sides. All exposed surface of board finished using 4mm thick PVC edge beading. Complete with necessary accessories & hardware like flush type handle, tower bolt, soft closing drawer slides & entire unit mounted on lockable castors.			
f	Supply & placing 20mm thick machine cut polished granite slab mounted on MS powder coated frame of 25mm x 50mm x 16g bolted to side / vertical frame on either side. All the four sides of the granite cut surface to be edge polished. Complete with necessary accessories & hardware.			
f.1	Size: 1500mm (L) x 750mm (D) x 900mm + 450mm (H) with granite platform below & one row of reagent shelves above.	2 Set		
f.2	Size: 1250mm (L) x 750mm (D) x 900mm + 450mm (H) with storage unit below & one row of reagent shelves above.	1 Set		
5	Supply and fixing Overhead storage unit in common equipment room onto existing masonry wall using 18mm thick prelam MDF board (BSL) for boxing and intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 35mm allround with 6mm thick clear glass for shutter. All exposed surface of board finished using 4mm thick PVC edge beading. Complete with necessary accessories and hardware like flush type handle, tower bolt, magnetic ball catch etc.			
5.1	Size: 1200mm (L) x 400mm (D) x 750mm (H)	2 Nos		
5.2	Size: 950mm (L) x 400mm (D) x 750mm (H)	2 Nos		
5.3	Size: 900mm (L) x 400mm (D) x 750mm (H)	1 no		
6	Supply & placing of Low storage unit with two intermediate shelves in between and glass shutter with rubber wood frame work and entire unit mounted on adjustable leveller. Using 18mm thick prelam MDF board (BSL) for outer boxing and intermediate shelves, 12mm thick prelam MDF board (BSL) for backing and rubber wood frame of 25 x 75mm allround with 6mm thick clear glass for shutter. All the exposed surface of the board finished using PVC lipping. Complete with necessary accessories & hardware like flush type SS handles, lock, tower bolt, magnetic ball catch, soft closing hinges & MS adjustable leveller of Size: 900mm (L) x 400mm (D) x 930mm (H)	16 Nos		
7	Supply & placing Full height storage unit with fixed intermediate shelves in between and rubber wood framed glass shutter and entire unit is mounted on lockable castors. Using 25mm thick prelam MDF board (BSL) for outer boxing, 12mm thick prelam MDF backing, 18mm thick prelam MDF (BSL) for intermediate shelves, 20mm thick rubber wood runner for supporting intermediate shelves fixed on sides and shutter frame using 25mm x 75mm with 6mm thick glass. Complete with necessary accessories and hardware like SS flush type handle, magnetic ball catch, tower bolt, hinges, lock etc. of Size: 900mm (L) x 400mm (D) x 2100mm (H)	3 Nos		

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

8	Supply & fixing Soft board of Size: 1500mm (L) x 1000mm (H) using 9mm prelam MDF board (BSL) for base with 12mm thick soft board & wrapped with cotton fabric and wooden frame around using 25 x 35mm thick and complete with necessary accessories & hardware.	2 Nos		
9	Supply & placing in position slotted angle rack of Size: 900mm (L) x 500mm (D) x 2100mm (H) of 18g with 5 shelves (including top, bottom & intermediate) Complete with necessary accessories & hardwares.	8 Nos		
B	SAFTEY SHOWER			
	Fabricating, Supplying and fixing of Broen, Water Saver or equivalent make safety stations including safety shower and eye wash mounted on a common vertical pipe fixed to the floor, including providing connections from existing water supply points and connecting waste water lying to existing floor trap available at site, complete with all necessary hardwares, pull chains / lever for operating, signage etc., as per manufacturer's technical specification. Instructions of the Officer-Incharge.	1 No		

NOTE:

Please refer Below Link for the Drawing's:-<http://www.ccamp.res.in/furnishing-interiors-laboratory>

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

FORM – 'A'

ORGANISATIONAL STRUCTURE

1	Name & Address of the applicant with Telephone No./Fax No./ Email ID	
2	a. Year of Establishment b. Date & Year of commencement of practice.	
3	Legal status of the applicant (attach copies of original document defining the legal status)	
	a) A proprietary firm	
	b) A firm in partnership	
	c) A limited company or Corporation / Joint venture / Consortia	
4	Names of Directors & other executives with designation	
5	Designation of individuals authorized to act for the organization.	
6	Total No. of professional staff in the design team:- Architects: Interior Designers: Quantity Surveyors: Others:	
7	Details of Fabrication unit a. Address b. Area of the unit c. Personnel d. Tools and Equipments.	
8	Any other information considered necessary but not included above.	
9	Address of local office (in Bangalore)	
10	Address of local Fabrication Unit (in Bangalore)	

FORM – 'B'

DETAILS OF ALL WORKS OF SIMILAR NATURE OF ASSIGNMENT COMPLETED DURING THE LAST THREE YEARS ENDING LAST DAY OF THE MONTH MARCH 2019

SIMILAR NATURE OF ASSIGNMENT – COMPLETED WORKS				
Sl. No	Description	1	2	3
1	Name of work / Project and location			
2.	Name & Address of Employer / Organization, Telephone no. of officer to whom reference may be made.			
3.	Cost of work in Rs. Lakhs (Attach copy of Work Order)			
4.	Date of commencement as per contract			
5.	Stipulated date of completion			
6.	Actual date of completion			
7.	Litigation / arbitration pending / in progress with details			
8.	Service rendered			
9.	Names of Project In charge & Key staff & nos. of staff involves.			
10.	Any other information			

FORM – 'C'
DETAILS OF ALL WORKS OF SIMILAR NATURE OF ONGOING ASSIGNMENTS

SIMILAR NATURE OF ASSIGNMENT - ONGOING WORKS				
Sl. No	Description	1	2	3
1.	Name of work / Project and location			
2.	Name & Address of Employer / Organization, Telephone no. of officer to whom reference may be made.			
3.	Cost of work in Rs. Lakhs (Attach copy of Work Order)			
4.	Date of commencement as per contract			
5.	Stipulated date of completion			
6.	Actual date of completion			
7.	Litigation / arbitration pending / in progress with details			
8.	Service rendered			
9.	Names of Project In charge & Key staff & nos. of staff involves.			
10.	Any other information			

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

**Name of Work: Designing and furnishing Modular Laboratory Furniture
For Vertical Expansion at C-Camp Building.**

FORM – 'D'

PERFORMANCE REPORT OF WORKS

1	Name of work/Project & Location	
2	Agreement No.	
3	Estimated Cost	
4	Tendered Cost	
5	Date of start	
6	Date of completion	
	i. Stipulated date of completion	
	ii. Actual date of completion	
7	Amount of compensation levied for delayed completion, if any	
8	Amount of reduced rate items, if any	
9	Performance Report	
	i. Quality of work	Very Good/Good/Fair/Poor
	ii. Financial soundness	Very Good/Good/Fair/Poor
	iii. Technical Proficiency	Very Good/Good/Fair/Poor
	iv. Resourcefulness	Very Good/Good/Fair/Poor
	v. General Approach & Behaviour	Very Good/Good/Fair/Poor

Signature & Seal of
Executive engineer or equivalent

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

ANNEXURE - E

SCHEDULE OF DEVIATION FROM SPECIFICATIONS/CONDITIONS

All deviations from the specifications/conditions shall be filled in by the bidder in this schedule.

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The bidder hereby certifies that the above mentioned are the only deviations from Technical Specification of this tender. [State NIL if no deviation is envisaged].

Signature	
Name	
Designation	
Name of the company	
Date	
Seal of the company	

Ref: CCAMP/L-045/2019-20(C)

Tender notice No.001/2019-20

ANNEXURE F

FINANCIAL INFORMATION

DETAILS OF ALL WORKS OF SIMILAR NATURE OF ASSIGNMENT COMPLETED DURING THE LAST FIVE YEARS ENDING LAST DAY OF THE MONTH MARCH 2019

I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/profit and loss account for the last seven years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (copies to be attached).

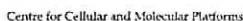
Particulars	Financial Year				
	14-15	15-16	16-17	17-18	18-19
i. Gross Annual turnover on similar works (In Lakhs)					
ii. Profit / Loss					
iii. Certified by					

c. Financial arrangements for carrying out the proposed work.

d. The following certificates are enclosed:

1. Current Income Tax clearance Certificate / Profit & Loss account
2. Solvency Certificate should be obtained from bankers on or after October 2019.

Signature of Chartered Accountant with seal



Ref: CCAMP/L-045/2019-20(C)

COVER - II PRICE BID

Sl. No.	Item Description	Qty	Unit Price	Total Price

1999