

**UTTRAKHAND CO-OPERATIVE DAIRY FEDERATION LTD,  
MANGAL PARAO,HALDWANI(NAINITAL)-263139**

**Website: [www.ucdfaanchal.org](http://www.ucdfaanchal.org),  
Ph. No.: 05946-255867,  
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**Tender Notice No.: 27(1-4)/UCDF/Civil/2024-25, Dated-17.01.2025**



**TENDER DOCUMENT FOR:**

**Name Of Work- Supply & Installation of Laboratory Furniture at Central  
Dairy Lab, opposite Uttarakhand Open University, Haldwani,  
District- Nainital**



**Uttarakhand Co-operative Dairy Federation Ltd., Haldwani**  
**Tender Notice No.: 27 (1-4) /UCDF/2024-25, Date-17.01.2025**

Following E-tenders are invited by the undersigned, from experienced, reputed and financially sound Manufacturers/Firms/Authorized Dealers for the following works so as to reach this office on or before 30.01.2025 up to 5.00 PM, which will be opened on 31.01.2025 at 11.00 AM.

S.N.	Name of work	
1.	Supply of Various Fodder Seed	E-Tender
2.	Supply of Real Time Self Life Detector/Rancidity Tester & Laboratory Mill	
3.	Supply & installation of Laboratory furniture/fixtures at C.D.L. Haldwani	Offline
4.	लालढांग/गैंडीखत्ता क्षेत्र, हरिद्वार में दुग्ध परिवहन के लिए किराए वाहन हेतु।	Tender

**On line tender -**  
Documents may be seen and downloaded/uploaded from portal <http://www.uktenders.gov.in>

**Off line tender-**  
Detailed Tender and other related details can be seen on **website** [www.ucdfaanchal.org](http://www.ucdfaanchal.org)

**Administrator** **Managing Director**

**निविदा की शर्तें:-**

1- उपरोक्त कार्य हेतु निविदा प्रपत्र दिनांक 20.01.2025 से दिनांक 30.01.2025 तक कार्य दिवसों में प्रातः 10.00 बजे से 4.00 बजे तक इस कार्यालय से निविदा प्रपत्र का मूल्य नकद धनराशि/डीडी जमा कर प्राप्त कर सकता है।

2- टेण्डर प्रपत्र का मूल्य GST सहित है। विस्तृत आफलाइन निविदा प्रपत्र बेवसाइट [www.ucdfaanchal.org](http://www.ucdfaanchal.org) से भी डाउनलोड किया जा सकता है। वेबसाइट से टेण्डर डाउनलोड करने पर टेण्डर मूल्य अलग से जमा करना होगा। टेण्डर मूल्य जमा किये बिना निविदा स्वीकार नहीं की जायेगी। निविदा में दी गयी दरें "फर्म" होनी चाहिए तथा उनमें कोई अन्तर किया जाना/निगोशिएशन अनुमन्य नहीं होगा।

3- यू0सी0डी0एफ0 बिना कारण बताये एक या सभी टेण्डर निरस्त कर सकता है। टेण्डर की अन्य शर्तें यू0सी0डी0एफ0 लि0, मंगल पड़ाव, हल्द्वानी कार्यालय से प्राप्त की जा सकती हैं।

4- निविदा खोलने हेतु निर्धारित तिथि को अवकाश होने पर निविदा अगले कार्य दिवस को पूर्व निर्धारित समय पर खोली जायेगी।

**प्रबन्ध निदेशक**  
**उत्तराखण्ड सहकारी डेरी फ़ैडरेशन लि0**

**UTTARAKHAND CO-OPERATIVE DAIRY FEDERATION Ltd.**  
**Mangal Parao, Haldwani, Nainital.**

**Tender Schedule/Tender** : All pages of BOQ sheets to be filled, signed and Submitted  
 To the UCDF office.

**Comprehensive BID For** :

S.N.	Name of Work	Approx. Cost of work.	Tender Fee (Rs.)	EMD (Rs.)	Experience / registration	tender Validity period	Work Period
1.	Supply & Installation of Laboratory Furniture at Central Dairy Lab, opposite Uttarakhand Open University, Haldwani, District- Nainital	Rs.23.00 Lakhs	2360.00	46000.00	Experience and Registered with competent authority for mentioned work	75 Days	02(Two) Months

**Tender Schedule:**

1	<b>Tender Notice no.</b>	Tender Notice No.: 27 (1-4) /UCDF/2024-25, Date-17.01.2025
2	<b>Start of tender document sale from UCDF</b>	20.01.2025, 12.00 PM
3	<b>Last Date &amp; Time for sale of Tender Bids</b>	30.01.2025 up to 04.00 PM
4	<b>Download tender bids from website</b>	20.01.2025, 12.00 PM
5	<b>Last Date &amp; Time for Receipt of Tender Bids</b>	30.01.2025 up to 05.00 PM
6	<b>Time &amp; Date of Opening of Tender- (a)Technical Bids</b>	31.01.2025 at 11.00 AM
7	<b>Time &amp; Date of Opening of Tender- (a)Financial Bids</b>	Will be notify after evaluated technical bid.
	<b>Place of Opening of Tender Bids</b>	<b>OFFICE OF THE MANAGING DIRECTOR UTTARAKHAND CO-OPERATIVE DAIRY FEDERATION Ltd., Mangal Parao, Haldwani, Nainital</b>
8	<b>Note</b>	<b>If there is a holyday on scheduled opening date, the tenders will be opened on next working day.</b>

### **Eligibility Criteria for bidder**

The bidder must meet the following pre-qualification criteria to be eligible for furniture Bidding. The information as required must be put in the envelope containing technical bid & EMD. The bidder may be a manufacturer of the required items or its authorized distributors/dealer.

1. The bidder should have good experience in execution of similar works in the Central and/or State Government(s) or Government Undertakings/ Universities during the last three financial years. (2017-2018 to 2019- 2020). Proof should be attached.
2. The bidder should have various ISO certifications (9001, 14001, 18001 etc) for Design, Development, Manufacture and supply of Industrial, office, Residential, commercial, modular wooden and steel furniture, control room interior & furniture. The bidder should have Green guard certification and BIFMA certification. Proof should be attached.
3. The bidder should have minimum annual turnover of Rs. 25.00 Lakhs and above in business of Furniture's in the last three financial years Audited Balance Sheet for the last 03 financial years should be enclosed. Or bidder may submit CA certificate with year wise declaration, for last 3 Years Annual turnover report.
4. The bidder should submit the completion certificates/ in case the bidder is authorized supplier, order copies of works done with the current principal manufacturer on whose behalf he/she is submitting the bid.
5. As proof of experience the bidder should submit along with the technical bid a statement showing similar nature of work as given in this tender notice carried out within last three years. They should submit satisfactorily completed order certificate copies of two works (at least one of them for any Government/Semi Government Organization/ Corporation/Board/ reported original) each costing Rs. 15.00 Lakhs or one work costing Rs. 25.00 Lakhs with the above-mentioned organizations. In case the bidder is authorized dealer, the order satisfactorily completed certificate copy of the principal shall be acceptable.
6. The manufacturer should have in house design and development capabilities to take care of any modification required in their product to suit the specification of this office in case their specifications slightly differ from specification prescribed in the schedule of quantity.
7. In case the bidder is not the manufacturer, the bidder should produce a letter of authorization from the manufacturer stating that the bidder is capable of implementing the new technology solutions based on their equipment.
8. The bidder shall have to arrange a site visit for officer of UCDF if required to the manufacturing unit for inspection of their product at their own cost.
9. In case of need, samples of the product may be called. The sample should confirm to the technical specification quoted for the project.
10. Bidder must be a registered firm with GST, A true copy of GST registration should be submitted along with the bid.
11. The manufacturer shall provide the sample if required by the officer UCDF or his representative shall witness the Inspection at manufacturer's factory/Showroom at his own cost.

**UTTARAKHAND CO-OPERATIVE DAIRY FEDERATION Ltd. Mangal Parao, Haldwani  
Nainital (Uttarakhand)**

**Special Terms and Conditions of contract**

**NAME OF WORK:** Supply & Installation of miscellaneous Furniture's & fixtures at Central Dairy Lab, Haldwani, District-Nainital.

- 1- The tenders are invited in two bid system consisting of technical bid and financial bid.
- 2- **Technical Bid:** It consists of EMD, Tender document fee, registration certificates for specified /required work, GST registration, required work experience details/ work completion certificates or any other documents mentioned in the tender bid.
- 3- **Financial Bid:** It consists of Rates quoted by the bidder in BOQ. Please fill the rates on BOQ sheets. The rates quoted should be inclusive of all prevailing taxes like GST etc..

**Technical Bid- Qualifying criteria for contractors:**

(Self attested copy of following documents to be provided by the contractor in the technical bid.)

**(a) Work Experience:** Experience on similar works executed during the last 3(three) years and like monetary value, proof of satisfactory completion of works etc. The bidder should have completed at least one similar nature of work amounting 25.00 Lakhs, or two works amounting 15.00 Lakhs in one year, during the last 3(three) years. The works completion certificates submitted by the bidder clearly indicate cost of the work & actual date of completion of the work.

**(b) Turn Over:** The contractors annual work turnover should not be less than the work/contract value, since last 3 (three) years.

**(c) Registration of firm for specified work:** The bidder should be a furniture manufacturer or authorized dealer/distributor for tendered work to fulfil the eligibility criteria. Copy of registration of the firm, Copy of the original furniture Manufacturer certificate/authorized Distributorship certificates/dealership certificates in specified work should be submitted.

**(d) GST Registration Certificate.**

**(e) PAN CARD** showing PAN NO.

**(f) EMD** deposited in original.

**(g) Tender Fee** deposited in original.

**(h) Tender Acceptance letter-** The bidder should submit tender acceptance letter on his letter pad. This should state that-

"I have read carefully all the terms and conditions of the tender document and agree with them. If I fail to comply any of the terms and conditions of the tender document, I will be responsible for any action taken by the UCDF Haldwani against me, according to the mentioned bid conditions."

**(i) The bidder should not be blacklisted.** Please attach affidavit, stating that bidder is not blacklisted in state/central departments/organizations/PSUs on Rs. 100.00 value stamp paper.

**Financial Bid:** It consists of Rates quoted by the bidder in BOQ. Please fill the rates on BOQ sheets and submit in sealed Financial Bid. The rates quoted should be inclusive of all prevailing taxes like GST etc. Rates of individual items of the works should be given in BOQ attached with tender papers. No percentage below/above rates are to be given. The comparative statement will be prepared on total quoted value and tender shall be accepted on Total L-1 rate basis. Note: The both envelopes should bear tender notice no., name of work and contractors name with address & telephone numbers.

**1- Earnest Money Deposit:** All bidders should deposit earnest money with the tender as per following details, if not specified in tender document:

(a) For cost of work up to Rs. 25.00 Lakh @ 3%

(b) For cost of work above Rs. 25.00 Lakhs @ 2% (minimum 75000.00)

All bidders should have to deposit earnest money in the form of a Demand Draft drawn on any Scheduled Bank/ reputed private bank or Nationalized Bank operating in India, Term Deposit Receipt/ Fixed Deposit Receipt/NSC, Bankers Cheque issued by any Scheduled Bank/ reputed private bank or Nationalized Bank in operating India, in favor of Managing Director, Uttarakhand Cooperative Dairy Federation Ltd. payable at Haldwani. The EMD may also be deposited in cash with account section of UCDF, Haldwani.

In general, the validity of EMD should be 90 days from the last date of validity of the tender, but the period may be extended as per requirements. Any tender bid which is not accompanied with the Earnest Money Deposit will be summarily rejected and no exemption shall be granted to any of the bidders in this regard. EMD of unsuccessful bidders would be returned within 120 clear days from the date of opening of the tender bids. However, no interest shall be paid on EMD for the period during which it lies with the UCDF. EMD of successful bidder may be kept as Work Completion Security for a period as mentioned in the Uttarakhand Procurement Rules 2017.

All bidders may note that EMD submitted in the form of a cheque will not be considered. Any tender bid which is not accompanied with the Earnest Money Deposit will be summarily rejected and no exemption shall be granted to any of the bidders in this regard. EMD of unsuccessful bidders would be returned within 120 clear days from the date of opening of the tender bids. However, no interest shall be paid on EMD for the period during which it lies with the UCDF.

**2- Tender fees:** The bidder should submit tender fee as mentioned in the NIT. It may be submitted in the form of D.D. or cash with account section of UCDF, Haldwani.

**3-** The rebate in rates/priority will be provided to the firms registered with Micro, Small & Medium Industries Department Uttarakhand only as per provisions of Uttarakhand government order. no: 261/VII-2-14/143-industries/2003, dated 19.03.2014/ Order no.-126/XXVII(7)32/2007TC/2019, dated 12.07.2019 or any amendment issued by the Government of Uttarakhand only. Please attach a copy of the rule (issued by the government of Uttarakhand) under which such exemption is claimed as documentary proof.

**4. Quality assurance:** The successful contractor should ensure the quality of material as per the requirement/discretion of the UCDF and quality standards as specified by Government agencies.

**5. Performance Security:-**

The performance security shall be provided by the contractor to the UCDF not later than the date specified in the letter of acceptance and shall be issued for an amount of 5% of the contracts price or the estimated cost of the work, whichever is higher, in the form acceptable to the UCDF from reputable local banks including scheduled banks or nationalized banks acceptable to the UCDF. The performance security shall be valid until the date of issuance of completion Certificate. The UCDF may increase the performance security to a level sufficient to protect it against the possibility of financial loss, if the lowest evaluated bid is unbalanced. The performance security will be released after satisfactory completion of the work. However no interest shall be paid to the contractor on this security deposit, in case of non compliance with any of the terms and conditions of this contract by the contractor, this security deposit or part of it, is liable to be forfeited by the UCDF.

The performance security deposit will be governed as per Uttarakhand Procurement Rule 2017 or as per amended by government of Uttarakhand from time to time.

**6. Defect liability period:**

Guarantee period for the furniture's and other materials supplied should be 12 months from the date of completion of the installation. Any poor workmanship, poor performance, and in case of deficiencies are found during guarantee period, the same shall be rectified or replaced free of cost by the Contractors at their own cost and risk.

**7. Liquidated Damages:** The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the date the site is handed over to the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence (time being deemed to be the essence of the contract on the part of contractor). If the contractor does not complete the work in stipulated time as per specifications, penalty will be imposed on him @ 0.5% of the contract value per week of delay subject to a maximum of 10% of the contract value.

**8. Advance payment:** Ordinarily, advances to contractors are prohibited and payment will be made only against the work actually done. However, exceptions may be permitted in a few predefined uses only with the sanction of the competent authority. Some of these instances may include-

- (a) Mobilization advance
- (b) Advance against machinery equipment.
- (c) Advance for accelerating progress of work.

A Bank Guarantee/FDR/CDR issued by any nationalized bank, in favor of Managing Director Uttarakhand Co-operative Dairy Federation Ltd. Haldwani or adjustment of advance will be taken from the contractor to secure the repayment or adjustment of advance.

**9. Execution of work:**

Time period of completion: The successful bidder shall execute and complete the work as per specification/Scope of work mentioned in the tender to the satisfaction of the Officer-in - charge within a period of 2 (Two) months from the date of award of work. The work should be completed in all respect within the specified time period.

**10. Payments:** Payments will be made to the contractors on the basis of actual work done at site. For any item of work partly done, payment may be made at proportionally reduced rates per as per assessment of the engineer in charge.

**11. Price Variation:** The contractor should take into account all fluctuations/variations of the market, no claim shall be entertained in this account after the acceptance of the tender and the currency of the contract. Only change in government taxes/ levies, if any, will be permissible on furnishing documentary proof.

**12. Resolution of disputes & Arbitration:** All questions and disputes relating to the meaning of the specifications, design, drawing and instructions herein and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing, whatsoever in any way arising out of or relating to the contract, designs, drawings, specification, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same, whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof, shall be referred to a sole arbitrator for adjudication through arbitration. In this case the Director Dairy Development Uttarakhand/ Registrar, Milk Co-operative Uttarakhand will be the arbitrator and the decisions passed by him or his nominee will be final and binding on both the parties. The arbitration will be conducted in accordance with the prevailing co-operative arbitration act.

**13.** The tendered rate shall be deemed for the complete item of work in all respects and shall include all quarrying, royalty, testing, screens, tools and plants, railway freight carriage of materials to site, stacking and removing charges of any rejected materials, GST and all other taxes in force from time to time.

**14.** In case of time the tender must be signed by the partner or by the person holding power of attorney on behalf of the firm. In the letter case, a duly attested copy of the power of attorney must be attached with the tender.

**15.** The tenderer should fill in all blank space meant to be filled in them. Tenders are liable to be rejected if is not complied with.

**16.** The tenderers should write their full address with phone number on the tender form which should also be witnessed.

17. The tender are to be addressed to the Managing Director, Uttarakhand Cooperative Dairy Federation Lid. Mangal Parao. Haldwani and should be submitted in sealed covers with the name of work on covers. The tenders may either be sent by registered post in double sealed cover or Speed post or courier only. By hand tenders will not be accepted. UCDF will not accept any excuse for non receipt of tenders due to loss or delay in postal transit.

18. Incomplete irrelevant, conditional or un witnessed tenders are liable to be rejected. Tenders not submitted on proper forms will not be considered.

19. No additions or alterations are permitted in the tender papers. If tenderer does so, the tender will not considered and will be rejected

20. The successful tenderer should be required to enter into an agreement with the UCDF, on Rs. 100.00 non judicial stamp paper, for execution of the work for which the tender has been accepted.

21. All work should be executed strictly in accordance with the General Specifications of equipment/ detailed specification of the Equipment.

22. The earnest money deposited by the unsuccessful tenderer shall be returned within Ninety days from the date acceptance of the tender.

23. When the tender is accepted, the contractor shall have to notify the names of one of his authorized skilled technical representatives who will have to be always available at site of the work.

24. Any claim during the period of contract, for extra items etc. will be submitted in writing a week of such claim which arises, failing which the claim may not be entertained.

25. All materials brought to the site for use on the works shall have be got approved by E/I before actual use.

26. Samples of all items of work to be executed will have to be got approved by the UCDF before execution. If any material brought by the contractor needs testing in a laboratory such testing charges as well as related expenses on transport etc. shall be borne by contractor. This also applied to finished work as well.

27. The site will be cleared by the contractor of all waste materials, labour huts, dirt, debris etc. on completion of the work for which no extra payment will be made.

28. The agreement for execution of the will be governed in all respects by the conditions given in-

i) Tender notice

ii) Special conditions

iii) Conditions of contract

iv) General Specifications and

v) Detailed specifications, BIS codes or any other prevailing norms fixed by the Government for mentioned works.

29. All the works shall be done as per specifications & directions issued by the UCDF. The temporary lines shall be removed by the contractor at his cost after the completion of the work if there is any hindrance, to other work due to the alignment of these lines.

30. The tender rates shall remain and valid for a period of 15 days from the date of opening the tender.

31. The tender shall visit the site of works to check the actual site conditions, availability of labor. communications, transport, accessibility of materials to site etc. and study the tender paper before tendering.

32. All deduction on account of any taxes, fees etc. which are become the statutory obligation of the UCDF during pendency of contract or thereafter, shall be deducted from any payments due.

33. All the works will be carried out as per Specification/electrical safety/fire safety, laid down from time to time for building works.

34. Any G.O. issued by the Uttarakhand Government, relating to mentioned work, will be binding on both i.e. on the contractor as well as on the UCDF.

**35. Right to accept or reject tender:**

(i) The right of acceptance of tender will rest with the UCDF.

(ii) The acceptance of the tender shall rest with the UCDF who does not bind himself to accept the incomplete tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason. Further, the UCDF reserves the right to accept the whole or any part of the tender and tenderer shall be bound to perform the same at the rates quoted. All the tenders in



whom any of the prescribed conditions are not fulfilled or are incomplete in any respect shall be liable to be rejected.

Managing Director  
UCDF Ltd, Mangal Parao,  
Haldwani

**UTTARAKHAND CO-OPERATIVE DAIRY FEDERATION**  
**Mangal Parao, Haldwani, Nainital (Uttarakhand)**

**General Terms and Conditions of Contract**

**CLAUSE 1 :**The “Contract” means the document forming the tender and acceptance thereof and the formal agreement executed between the UCDF Haldwani, Nainital having its head office at Mangal Parao, Haldwani and the contractor , together with the documents referred to therein, including these conditions the specifications, designs drawings and instruction issued from time to time by the Engineer-in-charge and all these documents taken together shall be deemed to form one contract and shall be complementary to another.

**CLAUSE 2 :**In the contract the following expressions shall, unless the context otherwise requires, have the meaning herewith respectively assigned them-

**a)** The “work or work” shall unless there be something either in the subject or context repugnant to such construction shall be construed and taken to mean the work by or by virtue of the contract to be executed whether temporary or permanent and whether original, altered, substituted or additional.

**b)** The “Site” shall mean the land/or the other places on into or through which, work is to be executed under the contract, or any adjacent land path, or street which may be allotted or used for the purpose of carrying out the contract.

**c)** The “Contractor” shall mean the individual or company, whether incorporated or not undertaking the works and shall include the legal personal representatives of such individuals or the persons composing such firm or company or the successors of such firm or individual company.

**d)** The “Engineer-in-charge” shall mean the concerned Engineer as the case may be who shall supervise and be in-charge of the work.

**e)** The UCDF shall mean the Uttarakhand Co-Operative Dairy Federation Ltd, Mangal Parao, Haldwani.

**f)** The Managing Director shall mean the Managing Director, UCDF.

The “Estimated Cost” shall mean the cost of work or works as estimated on the basis of the tendered rate or rates agreed to between the parties of the contract.

**CLAUSE 3: ACTION WHEN WHOLE OF SECURITY DEPOSIT IS FORFEITED:**

(1) The officer accepting the contract on behalf to the UCDF or Engineer In-charge shall have the power without prejudice to his right against the contract in any respect of any breaches of the contract and without prejudice to any rights to remedies under any of the provision of this contract or otherwise and whether the date for completion has or has not elapsed by notice in writing to determine the contract in any of the following cases:-

a) If the contractor having been given by the Engineer-in- charge a notice in writing (which notice under the hand of the Engineer-in-charge or communicated through his subordinate shall be conclusive evidence) to rectify, reconstruct or replace any defective work or any work damaged by any reason whatsoever of that the work is being performed in any inefficient or otherwise improper or unworkman- like manner, shall omit to comply with the requirements or such notice for a period of seven days of such notice or if the contractor shall delay or suspend the execution of the work so that either in the judgment of the Engineer In-charge (which shall be final and binding) will be unable to secure completion of the work by date of completion or he has already failed to complete the work by that date.

b) If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or creditor to appoint a receiver on a manner or which entitle the court make a winding up order.

c) If the contractor commit breach of any of the terms and conditions of this contract than those mentioned in sub clause (a) above.

d) If the contractor commits any acts relating to nonpayment of labors mentioned in respective clause thereof.

(2) When the contractor has made himself liable for action under any of the cases aforesaid the officer accepting the contract on behalf of the UCDF or the engineer-In-charge shall have

powers to adopt any one or more of following courses as he may deem best suited to the interest of the UCDF-

- (i) To determine or rescind the contract as aforesaid (of which termination or rescind on notice in writing to the contractor under the hand of the engineer-In-charge or communicated through any of his subordinates shall be conclusive evidence). Upon such determination or rescission, the security deposit of the contractor shall be liable to be forfeited and shall be absolutely at the disposal of the Managing Director, UCDF.
- (ii) To employ labor paid by the UCDF and to supply materials to carry out the works or any part the work debiting the contractor with the cost of the labor and the price of the materials of the amount of which cost and the part the certificate under the hand of the engineer-In-charge or communicated through any of his subordinates shall be final and conclusive against the contractor) and crediting him with the value of the work done in all respects in the same manner and the same rates as if it has been carried out by the contractor under the terms of this contract. The certificate of the engineer-In-charge as to the value of the work done shall be final and conclusive against the contractor provided always that action under this sub clause shall only be taken after giving notice in writing to the contractor provided also that if the expenses incurred by the UCDF are less than amount payable to the contractor at his agreement rates, the difference shall not be paid to the contractor.
- (iii) After giving notice to the contractor to measure up the work of the contractor and to take such part there of as shall be unexcited out of his hands and to give it to another contractor to complete in which case any expenses which may be incurred to excess of the sum which would have been paid to original contractor if the whole work had been executed by him(of the amount of which excess the certificate in writing of the engineer-In-charge shall be final and conclusive) shall be borne and paid by the original contractor and may be deducted from any money due to him by the UCDF under this contract any other account whatsoever or from his security deposit or the proceeds of sales there of or a sufficient part there of as the case may be.

**CLAUSE 4 :** In the event any one or more of the courses mentioned in sub clause(2) above being adopted by the engineer-In-charge the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagement or made any advance on account or with a view to the execution of the work or the performance of contract and in case of action is taken under any of the provisions aforesaid, the contractor shall not be entitle to recover or be paid any sum for any work actually performed under this contract unless and until the engineer-In-charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

**CLAUSE 5 : CONTRACTOR REMAINS LIABLE TO PAY COMPENSATION IF ACTION NOT TAKEN UNDER CLAUSE (3)**

In any case in which any of the powers conferred upon the officer accepting the contract on behalf of the UCDF or the engineer-In-charge by clause (3) here of shall have become exercisable and the same are not exercised, the non exercise thereof shall not constitute waiver of any of the condition here of and such power notwithstanding be exercisable in the event of and future case of default by the contractor for which by any clause of clauses here of he is declared liable to pay compensation and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the engineer In-charge putting in force all or any of the powers vested in him under the proceeding clause, the engineer In-charge may if he so desires take possession of all or any tools, plant, materials or/and stores in or upon the works or the site there of or belonging to the contractor or procured by him and intended to be used for execution of the work on any part there of paying or allowing for the same in account at the contract rates or in the case of these; not being applicable at current market rates to be certified by the engineer In-charge whose certificate there of shall be final otherwise the engineer In-charge may be noticed in writing to the contractor or his clerk of the works foremen or other authorized agent require him to remove such tools, plants materials or stores from the premises(within a time to be specified in such notice), and in the event of the contractor failing to comply with any such requisition the engineer In-charge may remove at contractor's expenses or sell

them by auction or private sale on the account of the contractor and at his risk in all respects and the certificate of the engineer In-charge as to the expenses of any such removal and the amount of the proceeds and expense of any sale shall be final and conclusive against the contractor.

**CLAUSE 6 : EXTENSION OF TIME-**

If the contractor shall desire an extension of the time for completion of the work on the grounds of his having been unavoidably in writing to the officer accepting the contract on behalf of the UCDF through the engineer In-charge and a copy thereof is sent to the Engineer In-charge within 30 days of the date of the hindrance on account of which he desires such extension as aforesaid, and the officer accepting the contract on behalf of the UCDF shall in his opinion (which shall be final) reasonable grounds be shown therefore authorize such extension of time if any as may in his opinion, be necessary as proper provided that the extension of time should be limited to 50% of the total period of the contract but in no case exceeding six months, the case of extension of time beyond such period shall be submitted; to the authority next higher to the officer accepting the contract on behalf of the UCDF provided always that if the contractor continues to perform the work beyond the date completion or the extended date, as the case may be without obtaining approval for extension as aforesaid the right of the UCDF to claim compensation under clause 3 shall not deemed to have waived.

**CLAUSE 7 : FINAL CERTIFICATE-**

On completion of the work, the contractor shall send a formal letter or registered notice to the Engineer-In charge giving the date of completion and sending a copy of it to the officer accepting the contract on behalf of the UCDF and shall request the engineer In-charge to give him a certificate of completion but no such certificate shall be given nor shall the work be considered to completed until contractor shall have removed from site on which the work be executed, all be executed, all scaffolding surplus materials and rubbish and cleared off the dirt from all wood work, doors, window, wall, floors or other parts of any building in upon or about which the work is to be executed or of which he may have had possession for the purpose of the execution there of and he has filed up the pits. If the contractor shall fail to comply with the requirement of this clause as to removal of scaffolding, surplus materials and rubbish and cleaning off dirt and completion of the work, the engineer In-charge may at the expense of the contractor to remove scaffolding surplus material and rubbish and dispose of the same as he thinks fit, and clean off and fill in the pits and aforesaid, and the contractor shall forth with pay the amount of all expenses so incur and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except any sum actually realized by sale thereof. On completion of work, it shall be measured by the engineer In-charge himself or through the subordinates, whose measurement shall be binding and conclusive against the contractor provided that if subsequent to the taking of the measurement by the subordinates as aforesaid the engineer In-charge had reason to believe that the measurements taken by his subordinates are not correct, the engineer In-charge shall have the power to cancel the measurements already taken by his subordinates and acknowledge by the contract and to take measurements again after giving reasonable notice to the contractor and such re measurements shall be binding on the contractor.

Within ten/thirty days of the receipt of the notice, engineer In-charge shall inspect the work and if there is visibly no defect on the face of the work shall give the contractor by engineer a certificate of completion. If the engineer In-charge finds that the work has been fully completed, it shall be mentioned in the certificate so granted, if on the other hand it is found that the certain visible defects to be removed, the certificate to be granted by engineer In-charge shall specifically mention the details of the visible defects along with the estimate of the cost of removing these defects. The final certificate of completion of work shall be given after the visible defects pointed out have been removed by the contractor.

**CLAUSE 8 : Payments for work contract-**No payment shall be made for work estimated to cost less than Rs. One thousand till after the whole of work shall have been completed and certificate of completion given. Payment on intermediate certificate to be regarded as advance. But in the case of works estimated to cost more than rupees one thousand, the contractor shall, on submitting the bill thereof be entitled to receive a monthly payment proportionate to the part thereof then approved and passed by the engineer In-charge whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. But all such intermediate payments shall

be regarded as payment by way of advance against the final payment only and not a payments for works actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or it shall not be considered as an admission of the due performance of the contractor or any part thereof in any respects or the occurring of the any claim nor shall it conclude, determine or effect in any the powers of the engineer In-charge under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise in any other way vary or affects the contract.

The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work or of the date of the certificate of completion furnished by the engineer In-charge and payment shall be made within three months of submission of the such bills, of the amount of the contract, plus that of the additional items is up to Rs 2.00 lacks, and in six months if same exceeds Rs. 2.00 lacks. If there shall be any dispute about item or items of the work than the undisputed item or items only shall be paid within the said period of three months or six months as the case may be. The contractor shall submit a list of the disputed items within 30 days from the disallowance there of and if he fails to so, this claim shall be deemed to have been fully waived and absolutely extinguished.

**CLAUSE 9 : BILL BE SUBMITTED MONTHLY-**

A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer In-charge for all work executed in the previous month and the engineer In-charge shall make or case to be taken the requisite measurement for purpose of taking the same verified and claim as for as admissible, adjusted if possible before the expiry of ten days from the presentation of the bill. If the contractor dose not submit the bill within the time fixed as aforesaid the engineer In-charge may get the said work measured up in the presence of the contractor whose counter signature to the measurements will sufficient warrant and the engineer In-charge may prepare a bill for such shall be binding on the contractor.

**CLAUSE 10 : NO COMPENSATION FOR ALTERATION IN OR RESTRICTION OF WORK TO BE CARRIED OUT**

-If at any time the commencement of the work the UCDF shall for reasons, whatsoever, not require the whole there of as specified in the tender to be carried out, the engineer in charge shall give notice in writing of the fact the contractor who shall have no claim to any payment or compensation whatsoever on account of any profit or advantage which might have derived from the execution of the work in full. But which he did not derive consequences of the full amount of the work not having been carried out, neither shall have any claim for compensation by reason of any alterations have been made in the original specifications, drawings, designs and instructions which shall involve any curtailment of the work as originally completed nor shall have any claim to compensation by reason of his having purchased or procured materials with a view to the execution of the work or the performance of the contract. But the engineer in charge shall have the option either to take over the materials at site, if of approved quality and not in excess of the requirement of the work and to pay to contractor the actual cost thereof the amount of which cost a certificate by the engineer in charge shall be binding on the contractor. In the event of this option not being exercised the contractor may submit to the engineer in charge within one month of date of the order closing down work a detailed statement of the loss that be estimates he will sustain by removing selling or otherwise disposing of the materials, the estimate will be forwarded the Dy. General Manager (Engineering) UCDF who will decide what sum, if any, should as a matter of grace be paid to the contractor to compensate him, for the loss suffered by him and the decision of Managing Director, UCDF shall be final and binding on the contractor.

**CLAUSE 11 : WORK TO BE OPEN IN INSPECTION CONTRACTOR OR RESPONSIBLE AGENT TO BE PRESENT-**

All work under or in course of execution or executed in pursuance of the contract shall at shall at time be open to the inspection and supervision of the engineer in charge; and his subordinates and the contractor shall at all times during the usual working hours and at all other time at which reasonable notice of intention of the engineer in charge or his subordinate to visit works shall have given to contractor either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing present for that purpose. Orders given to the contractor's agent shall be considered to have the same force as if they had been given to the himself.

The contractor shall be given not less than five days notice in writing by the engineer in charge or his subordinates in charge of the work before covering up or otherwise placing beyond the reach of measurement and work in order that the same may be measured and correct dimension thereof be taken before the same is so covered up or planed beyond the reach of measurement and shall not cover up or place beyond the reach measurement any work without the consent in writing of the engineer in charge or his subordinate in charge of the work and if any work shall be covered up or placed beyond the reach of measurement without such notice have given or consent obtained the same shall be uncovered at the contractor's expense or in default thereof no payment of allowance shall be made for such work or the materials with such the same was executed.

**CLAUSE 12 : CONTRACTOR LIABLE FOR DAMAGE DONE AND FOR IMPERFECTION FOR TWELVE MONTH AFTER CERTIFICATE-**

If the contractor or his working people shall break deface, injure or destroy any part of a building on or in which they may be working or any building, road, fence or grass land e premises on which the work or any part or damage shall happen to the work while is process from any cause whatsoever, or any defect, shrinkage or other faults appear in it within twelve months after a certificate of final or otherwise of its completion shall have been given by the engineer in charge as aforesaid, the contractor shall make the same good at his own expense or in default, the engineer in charge may cause the same (of which the certificate of the engineer in charge shall be final) from any sums that may then or at any time thereafter, become due to the contractor of from his security deposit, or the proceeds of sale there of or sufficient portion thereof in any other manner, legally permissible.

**CLAUSE 13 : WORK NOT BE SUBLET-**The contractor shall not assign or sublet without the written approval of the officer accepting the contract on behalf of the UCDF and if the contractor shall assign or sublet his contract, or attempt to does or become insolvent commence any insolvency proceedings or make any composition with his creditors attempt to do so, or if any bribe, gratuity gift, loan prerequisite rewarded or advantage pecuniary or otherwise shall either or indirectly, be given promised or offered by the contractor or any his servants or agents, to any public officer or person in the employ of UCDF in any way relating to his office or employment person shall become in any way directly or indirectly interested in the contractor, the officer accepting the contract on behalf of the UCDF thereupon by notice in writing rescind the work to the contractor and the security deposit by the contractor against the contract shall thereupon stand forfeited and be absolutely at the disposal of UCDF and the same consequence shall due as if the contract had been rescinded under clause (3) here of, and in addition the contract shall not be entitled to recover, or be paid for any work there to for actually, performed under the contract.

**CLAUSE 14 :**The contractor shall not for the execution of the work employ any labor under 14 years of age and within limits of any cantonment, any female laborer. For every each of this conveyance the contractor shall be liable to pay by way of liquidated damages such sum not exceeding fatty rupees as the engineer in charge may fix and the engineer in charge recover such sum by deduction from any sums which may be due, or may at any time there after become due to the contractor.

**CLAUSE 15 :** contractor shall pay to his laborers a fair wages and shall supply every laborer employed by him with a wage card on which the rate of wages, the attendance and payments will be entered.

(a) The contractor before the commences work paste in conspicuous place of the work a notice given the rates of wages which shall not be less then than the minimum wages applicable and where on minimum wages are applicable the wages will be such as may be carried as fair wages by the engineer in charge and shall send a copy of the notice to the engineer in charge.

**CLAUSE 16 :** The contractor shall be bound by all statutory provisions with regard to the period for which wages shall be paid and deduction from wages.

**CLAUSE 17 :**The contractor shall Comply with all labors law as applicable at the site of the work.

**CLAUSE 18 :** In respect of all labor directly or indirectly employed in the works for the performance of the contractor's part of this agreement the contractor shall comply with or causes to be complied by the UCDF from time to time for the protection of health and sanitary arrangements for workers employed by the Federation and its contractors.

**CLAUSE 19 : Leave and pay during leave of all labor employed by the contractor-**

Leave and pay during leave of all labor (Male and Female) employed by the contractor shall be registered, governed and allowed by the contractor strictly as per the labor rules/act prevailing in Uttarakhand state or any other act/rule passed by the Uttarakhand Government for the welfare of the labors engaged in construction works.

In the event of the contractor committing a default or breach of any of the provisions of labor rules or the UCDF directions to contractors for the protection of health and sanitary arrangements for the workers furnishing any information or submit correct, of filing any statement under the provision of the above direction which is materially incorrect, the contractor shall without prejudice to any other liability pay to UCDF a sum not exceeding Rs. 100.00 for every default or breach and in the event of the contractor defaulting continuously in this respect, the penalty may be enhanced to Rs. 500.00 per day of default subject maximum to 5 percent of the estimated cost of the work out up to tender, order of the engineer in charge shall be final and binding on the parties. If it appear to the engineer in charge that the contractor is not properly observing and complying with the said directions for the protection of health and sanitary arrangements work people employed by the contractor there in referred at said direction, the engineer in charge shall have power give notice writing to the contractor requiring that the said direction to complied with and amenities prescribed there in be provided to the work people within a reasonable time to be specified in the notice. If the contractor shall fail within the period specified in the notice to comply with and observe the said direction and to provide the amenities to the work people as aforesaid; the engineer in charge shall have the power to provide amenities here in before mentioned as the cost of the contractor. The contractor shall arrest, make and maintain at his expense and approved standard all necessary huts and sanitary arrangements required for work and if the same shall not have been erected or contracted according to the approved standards the engineer in charge shall have power to give notice in writing to the contractor requiring that the said buts and sanitary arrangements be remodeled and or reconstructed according to approved standards and if the contractor shall fair to remodel or reconstruct such huts and sanitary arrangement according to the approved standards within the period specified in the notice the engineer in charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standard at the cost of the contractor.

**CLAUSE 20 :**The contractor shall at his own cost his labor with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot or land to be approved by the engineer in charge.

- a) The minimum height of each hut above level shall be 7 feet and the floor area to be provided will be at the rate of 30 sq. feet for each member of the worker's family staying with the labor.
- b) The contractor shall in addition construct suitable cooking places having a minimum of a 6'x5' feet adjacent to the hut for each family.
- c) The contractor shall in addition construct temporary latrines and urinals for the use of the laborers each on the scale of not less than four per each one hundred of the total strength separate latrines and urinals being provided for women.
- d) The contractor shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.
- e) All the huts shall have walls of sun dried or burnt bricks laid in mud mortar or other suitable local materials as may be approved by the engineer in charge in the case of sun dried bricks the walls should be plastered with mud gory on both sides.
- f) The contractor shall provide adequate supply of water for the use of his labors at site.
- g) The contractor shall make necessary arrangements for the disposal of excreta from the latrines and drainage of water.

**CLAUSE 21 : Change in constitution of the firm-**In the case a tender by partners, any change in the Constitution of the firm shall be forthwith notified by contractor to the engineer in charge for his information.

**CLAUSE 22:- Works to be under direction of engineer in charge-** All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the engineer in charge for the time being, who shall be entitled at; What point or and what manner they are to be commenced and from time to time carried on.

**CLAUSE 23:-**

(a) If the contractor considers any work demand of him to be outside the requirement of contract, or considers any record or ruling of the engineer in charge or of his subordinates to be unfair, he shall immediately upon such work being demanded or such record or ruling being made, ask in writing for written instruction or decision. Whereupon he shall proceed without delay to perform the work or conform to the procedure or ruling, and within twenty days after the receipt of the written instructions or decision he shall file a written protest with the engineer in charge stating clearly in detail the basis of his objections. Except for such protests or objections as are made on records, rulings, instructions or decision of the engineer in charge, the final conclusive instruction and/or decision of the engineer in charge contained in letters transmitting drawings to the contractor shall be considered as written instructions subject to protest or objection as herein provided.

(b) If the contractor is dissatisfied with the final decision of the engineer in charge pursuant to clause, the Contractor may within twenty-eight days after receiving notice of such decision, give notice in writing reporting that the matter be submitted to arbitration and furnishing detailed particulars of the dispute or difference specifying clearly the point of the contractor's failure to give such notice within the period of twenty days as stipulated above. The decision of the engineer in charge shall be conclusive and binding on the contractor.

**CLAUSE 24:- ACTION WHERE NO SPECIFICATION IS GIVEN-** In the case of any class of work for which there is no specification in the contract, such work shall be carried out in accordance with the detailed PWD specification and in the event of there being no detailed specification for such work, the work shall be carried out in all respects in accordance with the instructions and requirements of the engineer in charge.

**CLAUSE 25:- WHETHER APPLIED TO NET OR GROSS AMOUNT OF BILLS-**

In every case in which by virtue of the provisions of mentioned section /sub-section or the prevailing workman compensation Act Uttarakhand, UCDF is obliged to pay compensation to a workman employed by the contractor or any sub-contractor from him in the execution of the said work, UCDF will recover from the contractor the amount of the compensation so paid and without prejudice to the rights of UCDF under mentioned section/sub-section of the said Act UCDF shall be at liberty to recover to such amount any part thereof by deducting it either from the security deposited by the contractor to his credit under mentioned clause of these conditions or from any other sum due to UCDF from these conditions or from any other sum due to UCDF from the contractor whether under this contract or otherwise. UCDF shall not be bound in contest any claim made against it under section/sub-section of the said Act except on the written request of the contractor and upon his giving to UCDF full security for all costs for which UCDF might become liable in consequence of contesting the claim.

s/d

**Contractor's Signature**

Name and Address

**Dy. General Manager(Engg.)**

UCDF, Mangal Parao, Haldwani



## Technical Specifications – Laboratory Furniture

### SEFA-8M & SEFA-10 Test Certified Lab Furniture

- Supply and Installation of Laboratory Workbenches/Storage units including granite worktops and other

#### Scope of Work

supporting structures/hardware's based on the specified Make List.

- Supply & Installation of all utility service outlets and accessory fittings, electrical receptacles,
- plumbing and electrical switches & fittings identified on drawings as mounted on the laboratory furniture.
- Supply & Installation of all laboratory sinks, bottle traps, drain troughs etc.
- Supply & Installation of service structures where specified and setting in place reagent shelves of the type shown in the drawings.

**Note:** - All the material should be supplied as per the Layout finalized. List of makes is for the items mentioned in the Layout

### LIST OF MAKES

- Powder Coat, Hardware & Accessories:
- (a) Powder Coat: AKZONOBEL - INTERPON/JOTUN Primary - Body, Shutters & Shelf - RAL 9010 (Off white) - AKZONOBEL; Secondary Colors options -Drawers Facia, Regent Facia, Raceway, Overhead Shutters - BASALT GREY / MAROON/PEPSI BLUE / ULTRA BLUE / PETROL BLUE / ORANGE/MUNSHELL GREY / PINE GREEN
- (b) CRCA Sheet - TATA / ARCELOR MITTAL/Jindal
- (c) Hinges- HETTITICH Soft Closing or SEFA STANDARDS (min 90 kg LOAD CAPACITY per PAIR) TEST CERTIFIED SS-304
- KNUCKLE OVERLAY HINGES 2.5 mm thick
- (d) Lock - Multipurpose (Hettich") lock with a pair of keys with each drawer & pair of shutters
- (e) Telescopic Channels - HETTITICH
- (f) Handle - 'D' type, SS-304, 150 mm Long, made out of Solid Rod of 8 mm thickness (Own mfg) or Aluminum Recessed Handle.
- (g) Screws / Bolts - All visible bolts/screws are SS 304
- (h) Sink -9 mm thick Polypropylene - Black, Size Outer L-560 x W-355 x D-245 mm , Water Discharge Hole 40 mm Dia.(1.5" BSP), Typical Properties Resin Properties Melt Flow Index (2300C & 2.16 Kg) ASTM D 1238 gm/10 min 11.0 Density @ 23oC ASTM D 1505 gm/cm<sup>3</sup> 0.90 Mechanical Properties Tensile Strength @ Yield (50 mm/min) ASTM D 638 MPa> 23.0,,Elongation @ Yield (50 mm/min) ASTM D 638 % 6.0 Flexural Modulus (1.3 mm/min) ASTM D 790 MPa 1200 Notched Izod Impact Strength @ 23oC ASTM D 256 J/m 100 Thermal Properties Heat Deflection Temperature (0.46 N/m<sup>2</sup>) ASTM D 648 oC> 95 ,Vicat Softening Point (10 N) ASTM D 1525 oC 140, Processing Temperature: 170 – 230 oC Safety Measure Polypropylene and its Copolymers for safe use in contact with Foodstuff, Pharmaceutical & Drinking water. Standard IS 10909. also comply with the FDA: CFR Title 21,177.1520 - Brand - Premier Polymer/ polypropylene
- (i) Utility Taps Water - Three Way / One Way – Water flow around 39l/min at 3 Bars pressure Test pressure: 9 Bars/air Max working pressure: 10 Bars SURFACE PROTECTION - Teflon mix Epoxy powder coating RAL 7035 MATERIALS - Brass (100% VIRGIN GRADE)) Handle KNOB in PP / ABS - PP

HEADWORK SEALING EPDM temperature working range: 0-90° CERAMIC temperature working range: 0-90° CONNECTION TAP Male thread G1/2" STANDARD AND NORMS – EN13792:2000 DIN12898 DIN12918 ISO228/1 NO REACTION WITH SALTS & ACIDS. - Denmark / "Novalab" Germany / "FAR" Italy / Premier Polymers

- (j) Utility Taps (Valves) - One Way - all gases - Brand -BROEN® - Denmark / "Novalab" Germany / "FAR" Italy / Premier Polymers/ polypropylene or equivalent
- Bench Mounted Eye Wash / Free Standing Safety Shower with Eye Wash - Brand-BROEN - Denmark / "Novalab" Germany / "FAR" Italy or equivalent

- Switches / Sockets - 6/16 Amp - LEGRAND/NORTH WEST / NORISYS/L&T/ANCHOR/ROMA or equivalent
- Blower - PP Molded casing and impeller of preferably "Quimipol - Spain" / "Colasit or equivalent Switzerland/Singapore" / "Plastifer - Italy" or equivalent, along with 3-Phase Non FLP Motor of required capacity of "ABB" / "BBL" / "Crompton Greaves" / "SIEMENS" or equivalent

## **“C” Frame system**

### **1. C - Frame system**

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 while making a layout. C-Frame should be constructed from a rectangular pipe with a cross section of 60 x 30 mm and should be a minimum 2 mm thick. 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 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 “C” FRAME System must have a built-in Service Stand, made out of an extended middle Arm (apart from the Top & Bottom Extended Arms) so as to make a solid service channel as well as Granite Support Stand. It should be suitable for sitting and standing nominal heights of 800mm & 900mm respectively. The nominal table depths should be 750 mm, 900 mm, 1050 mm for wall side and 1200mm or 1500mm for Island tables. The Corner Units shall fit well with 770mm & 920mm table depths. All frame-work is should be pre-treated with superior pure epoxy powder coated finish.

### **2. Horizontal members**

These should be made from C-Channel for “C” Frame of 2mm thickness. They should be made of CRCA MS and coated with pure epoxy powder. These members should connect the two C - Frames together with the help of IN-BUILT FORMED THREAD so as to have never-failing thread Life. Together with the C -Frames and Horizontal Members connected, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent C -Frames. They should be available in various widths of 600, 750, 900, 1200, 1350, 1500 mm.

### 3. Cover panels

All side cover panels and back panels, filler panels should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powdercoating. Back Cover Panel is easily removal with a push of a button so as to have an easy access to the service area.

#### 4. 2 Tier reagent shelves

Modular adjustable Upright Type reagent shelves should be provided. It should be complete modular design consisting of 2 stage horizontal storage shelves made of minimum 1.0 mm thick frame. CRCA MS with pure epoxy powder coating. A full length independent raceway trunking below the shelves and having cutouts for electrical switches and sockets is to be provided.

#### 5. 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 minimum of 1 mm thick body. It should be available in both, single sided and double sided configurations. Size of the Raceway should be L-2M (Max) x D-75 x H-100 mm. It should have 3 cut-outs for 6 Module plate in 2 Metre piece. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope.

#### 6. Knock down under-bench storage cabinets

Under bench cabinets are Pure epoxy powder coated with thickness of 50-60 microns and are suspended from tubular structure. The cabinet has a corrosion resistance magnetic strip as shutter catch, shutter and drawer are equipped with 180 degree multi-purpose lock. "D" Shape SS-304 handle, made out of Solid Metal Rod, Threaded and Nickel-Chrome Plated & further Lacquered for longer life. SS-304 knuckle overlay hinge (SEFA standard test certified), or Hettich Self Soft Closing CED Coated Hinges, with 95 degree opening. Shutter has a sandwich construction with profile as a sound Drawer: welded Filled with profiles as sound dampner, single piece construction with an over closing

#### 7. Service fittings and accessories drawer.

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. **Service Indexes:**

#### 8. Eye wash

DECK-MOUNTED EYE-WASH - Body: Solid thick brass. Coating: High gloss much thick galvanization

- powder, resistant to chemicals, UV fading and heat.
- Sprayer head: Soft rubber, softened water
- spray for eye protection. Dust shield
- cap: PP material, removed automatically when
- eye washer is operated.
- Switch: Automatic trigger locking for easy
- hand-free use.
- Control-valve: None-return valve, shut off
- automatically.
- Hose: Length 1.5m, PVC with stainless steel
- wire braided.
- MAX. Working pressure: 7Bar.

## 9. Peg boards

These should be Single faced ACRYLIC (Transparent) or SS-304 Pegboard having a SS-304 tray hole for water drainage and detachable pegs. The essence should be made up of 6 mm thick Acrylic or SS-304 Sandwich construction sheet whereas the pegs should be made up of black color polypropylene.

## 10. Sink

Sink is to be made of single piece 5 mm thick Polypropylene in Black / White Colour.

## 11. 3-Way / One-way taps

A 3-way Tap with 2 fixed Bib Cocks & One Swan Neck Swivel Cock. Should be made in Brass and heavy duty knobs. Or a One Way Tap with Swan Neck Swivel Cock.

## 12. Safety shower / Eye Wash

Emergency Shower with Eye-Wash (Imported Broen Denmark/NovaLab Germany or equivalent) or Bench Mounted 2-way Eye Wash for bench top application.

## 13. Shoe Rack

Shoe Rack of Size L-750x D-300xH-1200 mm, made in CRCA Sheet 0.8 mm Duly Powder Coated (2 shelves, making 3 compartments)

## 14. Worktop

It should be 18mm (+/- 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 coming in contact with the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. Other options are 16 mm Phenolic Resin Laminate – Indian make or 16 mm TRESPA TOPLAB PLUS® or 16 mm thick Epoxy Resin Top, as per customer choice and application.

### ➤ Worktop underneath packing

There should be Neoprene of Industrial Grade of 6 mm thickness and 30 mm width to be glued underneath the Counter Worktop to absorb the un-evenness of Granite and make it vibration resistant.

### ➤ Granite support

Standing Height Granite Support of Size L- 300 to 1000 mm, D-300mm, H-875mm, made in 30 x 30 mm pipe, duly epoxy powder coated.

### ➤ Angle racks

Angle Racks of Size 2100 x 900 x 400 mm / 2100 x 1000 x 450 mm – Vertical Pillar are made up of Sheet Angles (Slotted angles are not acceptable), of size 40x40x1.5 mm thickness prepared from Virgin CRCA Sheet of IS : 513 CR2., duly epoxy powder coated. A total of 6 Shelves making 5 compartments, are made up of 0.8 mm thick, duly epoxy powder coated CRCA of 0.8 mm thickness, with 8 bends, along with a bottom stiffener in 0.8 mm thickness to make it capable of taking a load of 30-40 kg UDL. Levelling bolts made up of Nylon with M6 bolt are to be placed at bottom to absorb the unevenness of the floor.

➤ **Anti-vibration table**

Anti-Vibration Tables, available in sizes 900x 600 x 900 mm, 600 x 600 x 900 mm, 1200 x 900 x 900 mm, 1800 x 900 x 900 mm. Main structure is made up of 50 x 50 mm Pipe of 2 mm thickness, duly epoxy powder coated. Front, Back and inner cover sheets are made up of 1 mm thick Virgin CRCA Sheet of IS: 513 CR2..., duly epoxy powder coated. The whole table rests on Rotation Axis Levellers SCREW SUPPORT MOUNT DLM2-P having M16 x 100 mm bolt for high strength, that keep is perpendicular to the ground even in uneven Anti Vibration Pads - INSULATION PLATE DP2, of Size-75 x 40 x 20 mm. Minimum of 6 nos. of Pads are to be used in one table.

Ø **Ventilated lab chemical storage**

Overall dimensions of ventilated chemical storage cabinet should be L-1000 x D-450 mm H-1800 mm. External body should be duly epoxy powder coated. Total number of shelves should be four. One Fixed and 3 adjustable shelves. All Construction material should be 1.2 mm thick CRCA duly epoxy powder coated. All Walls of the storage should be clad with 2 mm thick Phenolic Resin Laminate. There should be 4 wing doors fitted with PP Hinges. PP trays should be placed on each shelf to place the Acids, etc. and avoid their spillage. A suitable blower should be provided based on location & other factors.

➤ **Storage almirah with floating glass shutters**

- Knock Down Steel Almirah – Overall Size - 910W x 480D x 1980H mm Having 4 shelves making 5 compartments
- Doors have 4 cut-outs for Floating Glass
- 4 mm thick Floating fixed in Doors with Rubber Bidding
- Whole body, doors and shelf made of 0.8mm CRCA sheet, Shelves and doors should have stiffener for better strength and load bearing capacity.
- Auto closing CED Coated “HETTICH”/ “HAEFFLE” / equivalent Hinges for better adjustment of doors.
- Chrome plated three way Recess type spring loaded rectangular snap shut handle cum lock with duplicate keys  
Highly durable – Made of 100% virgin Epoxy Powder Coated CRCA confirming to IS : 513 CR2 (Cold Reduced Carbon Steel Sheets & Strips (Part 1), 2016, procured from TATA Steel (Test Certificate available on request). Furthermore, Complete material passes through 7 stage, ultra-modern NANO-TECHNOLOGY based Pre-treatment plant prior to powder coating, making it highly corrosive resistant.  
– Powder coating done on Fully Automatic Powder Coating Plant with world leader
- Superior Finish
- Modern Technology - Rigid Knock Down Construction done out of complete 0.8 mm thick CRCA
- GEMA™ spray booth and World Leader AkzoNobel™ Powder ensures smooth, uniform and highest quality levels of Powder Coating
- Logistic Friendly – 100% Knock Down product makes transportation a very easy and SAFE, product sheet. Each Compartment Shelf has uniformly distributed load capacity per shelf is 35 kg. The rigid construction gives extra strength and durability, whereas the epoxy-polyester adds the finishing touch to the unit.
- gets assembled at site only.
-

➤ **SS stool**

SS Sool Overall Sizes Diagonal Leg Dia 438 mm x H-470 min-655max. SS 202 made sheet with spin section of thickness 1mm & should be non corrosive. It should have a diameter of 305mm, seat base is made of MS ring and rectangular tube. EN8 Screw having dia of 22 mm should be used for height adjustment of the seat base. The hub should be made of MS ERW tube having dia of 38mm and thickness 2 mm. The Hub should be welded with the legs and it should accommodate and cover the lead screw mechanism. The understructure should consist of 4 legs made up of MS ERW tube of diameter 25.4 mm and 1.6mm thick. The press formed pipe leg should give a round & clean look. All the legs should be provided with 4 nos of Nylon-6 bush. All metal components should be pre treated with zinc phosphating in 9 tank process and then powder coated with anti microbial epoxy polyester powder coating . All welding should be Co2 argon welding to minimise rusting on the welding areas. Safe working load must be 115kg.

➤ **Personal locker**

Overall Size of the Locker is H-1980 x W-910 x D-480 mm. Comprising of 6/8/9/12/18/24 nos. of lockable box compartments. It should have following features and specifications -

Highly durable – Made of 100% virgin Epoxy Powder Coated 0.8 mm thick CRCA confirming to IS : 513 CR2 (Cold Reduced Carbon Steel Sheets & Strips (Part 1), 2016, procured from TATA Steel / Arcelor Mittal. Furthermore, Complete material passes through 7 stage, ultra-modern Pre-treatment plant prior to powder coating, making it highly corrosive resistant.

Modern Technology - Rigid Construction done out of complete 0.8 mm thick CRCA sheet. Each

Compartment Shelf has uniformly distributed load capacity per shelf is 35 kg. The rigid construction gives extra strength and durability, whereas the epoxy-polyester adds the finishing touch to the unit. Design Simplicity - Simplistic Design offers good capacity that makes sure you have enough space to

Security - Each door equipped with a lift up handle and recessed hasp, matched with Cam Locks for lock up your Mobiles, Wallets, Keys, Small Tiffin and Fabric, etc

Thoughtful design - The lockers can be easily identified thanks to its label holders, which comes in added convenient and security

Superior Ventilation – Louvers provided on each shutter allows free air flow preventing Bad odour.

handy when it comes to multiple lockers stacked together.

Ø **Powder coating**

Complete Module & Frame work are processed in 7 tank pre-treatment (Modern Nano technology based) with passing through sophisticated automatic Spray Booth (of World Leader Gema®) and finished with highly corrosion resistant Epoxy Powder coating with 50-60 microns thickness that passes 1000 hours Salt Spray Test.

- Spot Extractor: Joint: high grade PP, to be 360° swiveled, dismantled & assembled easily for cleaning  
Joint seal ring: High-density anti-aging rubber Support spring/center bolt: stainless steel 304 Adjustable joint knob: high grade PP with a molded in brass nut locking with center bolt Air flow control valve: adjust the external valve knob manually to control the entering of the gas flow Dome/cup hood: D375mm/200mm, high grade PP red, grey & transparent available Rigid Flexible Duct: D75mm PVC/PP Bracket :high grade PP (ceiling/wall mounted).

➤ **Fume Hoods**

**Superstructure Frame** – It should be a free-standing rigid panel structure of steel (CRCA)  
Interior Walls - Double wall ends, not more than 6” wide, should be provided to maximize interior working area. The area between the double wall ends should be closed to house the remote-control valves. Cut-outs should be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical fascia shall contain the required service controls, electrical switches and receptacles.

**Airfoil** - A streamlined airfoil should be integral at the bottom of the hood opening on bench and distillation 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 should be provided with a separate handle which also provides for air flow when in completely closed position. The foil should be of 1.2mm steel, SS-316 grade 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 should be spaced out from the back liner and should be removable for cleaning.

**Duct Collar** - A 8”-10” diameter polyethylene funnel shaped rectangular duct collar should be located in the top of the hood plenum chamber.

**Lighting**- 2 LED Lights of 10 watts each should be provided in the fume hood.

**Sash** - A vertically moving sash should be provided. The FRAME OF THE SASH MUST BE OF ALUMINIUM PROFILE for better movement and aesthetics. The bottom of the sash frame should have a full length profile handle. The sash track has minimum protrusion to avoid any kind of turbulence. The sash should be counterbalanced with a weights to prevent tilting and binding during



operation. The glass panels should be 5mm toughened glass mounted in an levelled channel with roller for smooth operation.

**Plumbing Services** - Utility services like Vacuum, Nitrogen, Compressed Air & Raw water (as per Schedule of Quantity) shall consist of remote control valves as selected located within the end panels, controlled by in and out facility with flexible hose passing through the side panels of the hood, with color coded plastic handles. Interior fitting for gases and water should be with powder coated brass. All gas valves for regular lab gases to have standard needle valve and push and turn type arrangement for all burning gases should be supplied. All supplied valves to clear the following pressure test conditions: Gas Fittings - 7 bar, Water fittings - 10 bar.

**Electrical Services** – The hood superstructure should be fully wired and should have a control box with MCB blower starter all safety devices like trip etc. Inlet should be of 3 phase power supply and the whole electrical should be of plug and play type. It also has 5 nos. electrical sockets and switches of reputed make (230V, 5/16 A, 50 Hz) and 2 Nos. Industrial Sockets (Neptune/Legrand/BCH make) & MCB.

**Liner** – Interior liner panels should be 6 mm thick Phenol resin based industrial laminate.  
**Centrifugal Blower** – Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impellar. The blower should 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 should be polypropylene UV treated, high density and chemical (corrosion) resistant and mounted on a metallic stand.

**Base Cabinets** – Fume hoods are designed to rest on a bench madeup of HEAVY DUTY “C” Frame which is a complete rigid steel structure. The pipe section should be of 60 x 30 mm and minimum 3 mm thick. Base Cabinets have Heavy Duty Roller so that they can be pulled out if required. Alternatively, the cabinets may be made up completely PP sheets with shelf for the storage of acid and other chemicals, with locking arrangements and Metal Cladded PVC Legs.

**Transition** - Used to connect fume hood with ducting. They are designed to reduce the static pressure and are made up of Poly-propylene of 4 mm thickness.

**Work Surface** – Standard hood work surface should be 18mm thick jet black granite made in the form of a watertight pan. Worktop will have oval ‘PP’ Cup-Sink for drainage. Top should 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 should be available in black.

➤ **FRP ducting**

Chemical resistant Polypropylene Glass Lined Sheet (PP-GL) and Fibre Reinforced Polyester (FRP) Ducting - Rigid Ducting of PP-GL (Thickness 2 mm) + FRP (Thickness 1 mm), along with Flexible ducting (wherever required), complete with flanges, bends, T-connectors, damper transition, clamps, etc.

➤ **PP/PVC ducting**

Rigid Polypropylene / PVC Ducting - 100/150 mm Dia, along with Flexible Pipe, complete with Bends, T-connectors, etc.

➤ **Blower**

Centrifugal Fan with Housing in PP Construction & suitable stand in MS Zinc Plating with Powder Coating. Non FLP Motor of suitable capacity. PP Moulded casing and BALANCED Impeller of preferably “Quimipol – Spain” / “Colasit – Switzerland/Singapore” / “Plastifer – Italy” or equivalent, along with 3-Phase Non FLP Motor of required capacity of “ABB” / “BBL” / “Crompton Greaves” / “SIEMENS” or equivalent

➤ **GAS Bank**

Gas bank with MS angle frame and shed to store 20 – 25 cylinders along with gas connections and regulators

**\*Note -**

- Detailed Compliance of Drawing & specification should be submitted.
- 

Drawing and BOQ shall be submitted in the Tender by supplier.

### Bill of Quantity:

**Name of work:** Supply & Installation of Laboratory Furniture at Central Dairy Lab, opposite Uttarakhand Open University, Haldwani, District- Nainital

S.N.	Particular	Specification	Quantity	Rate (Rs.)		Total
				In digits	In words	
<b>A</b>	<b>BASIC INSTRUMENTATION</b>					
	<b>TABLE SIZE - L-14021 MM D-750MM H-900MM</b> <b>Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
<b>1</b>	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	9			
<b>2</b>	Corner Cabinet	Length =800+800mm Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
<b>3</b>	Corner Sink Cabinet	Length =800+800mm Depth = 550mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
<b>4</b>	Leg Pipe	size =600mm	2			
<b>5</b>	Skirting with top Support	Length =600mm, Height = 150mm + 30mm (Top)	2			
<b>6</b>	Back Pannel	Size =600mm	2			
<b>7</b>	Leg Pipe	size =715mm	3			
<b>8</b>	Skirting with top Support	Length =715mm Height = 150mm + 30mm (Top)	3			
<b>9</b>	Back Pannel	Size =715mm	3			
<b>10</b>	Leg Pipe	size =735mm	2			
<b>11</b>	Skirting with top Support	Length =735mm, Height = 150mm + 30mm (Top)	2			
<b>12</b>	Back Pannel	Size =735mm	2			
<b>13</b>	End Cover Panel	size =150mm	1			
<b>14</b>	Standard Stone	Standard Top - Z-Black Granite stone, Per Sq. Feet (thickness=15mm + 1mm)	197			
<b>15</b>	Standard Fitting	Per Sq. Feet	141			
<b>16</b>	Neoprene rubber	Per Running Feet	188			
<b>17</b>	Electrical Raceway	Per Running Feet	47			
<b>18</b>	Two Single - Two Switch & Socket with	6-M Face Plate	10			

19	Data socket		8			
20	Electric wire	Per Running Feet	564			
21	Electric work	Per Running Feet	564			
22	Sink	PP Sink, Item Dimension :- 450x600mm	1			
23	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	1			
24	Sink and tap fitting	Fitting charges for tap and sink on site	1			
25	Spot Extractor		2			
<b>B</b>	<b>HOT ZONE</b>					
<b>TABLE SIZE - L-3660 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>						
1	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	2			
2	Sink Cabinet	Length =750mm, Depth = 550mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 2 Shutter</b>	1			
3	Leg Pipe	size =845mm	2			
4	Skirting with top Support	Length =845mm Height = 150mm + 30mm (Top)	2			
5	Back Pannel	Size =845mm	2			
6	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	50			
7	Standard Fitting	Per Sq. Feet	36			
8	Neoprene rubber	Per Running Feet	48			
9	Electrical Raceway	Per Running Feet	12			
10	<b>Two Single - Two Switch &amp; Socket with 6-M Face Plate</b>		3			
11	Data socket		2			
12	Electric wire	Per Running Feet	144			
13	Electric work	Per Running Feet	144			
14	Sink	PP Sink, Item Dimension :- 450x600mm	1			
15	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	1			
16	Sink and tap fitting	Fitting charges for tap and sink on site	1			
17	Fume Hood	Working area size: 4x2x2 feet, with storage cabinet Exhaust, Inner working chamber SS 304, working base - Granite ,outer Ms powder coated, with PP sink provision and PP tap	1			

C	WET LAB				
<b>TABLE SIZE - L-31350 MM D-750MM H-900MM</b>					
<b>Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
1	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	23		
2	Sink Cabinet	Length =750mm, Depth = 550mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 2 Shutter</b>	1		
3	Sink Unit	Length =600mm, Depth =1200mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 2 Shutter Both Side</b>	2		
4	Leg Pipe	size =600mm	24		
5	Skirting with top Support	Length =600mm Height = 150mm + 30mm (Top)	24		
6	Back Pannel	Size =600mm	24		
7	End Cover Panel	size =150mm	3		
8	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	441		
9	Standard Fitting	Per Sq. Feet	315		
10	Neoprene rubber	Per Running Feet	420		
11	Electrical Raceway	Per Running Feet	53		
12	Double Electrical Raceway	Per Running Feet	26		
13	Two Single - Two Switch & Socket with <b>6-M Face Plate</b>		25		
14	Data socket		22		
15	Electric wire	Per Running Feet	1260		
16	Electric work	Per Running Feet	1260		
17	Sink	PP Sink, Item Dimension :- 450x600mm	3		
18	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	3		
19	Sink and tap fitting	Fitting charges for tap and sink on site	3		
20	Peg Board		2		
21	Spot Extractor		2		
22	Fume Hood	Working area size: 4x2x2 feet, with storage cabinet Exhaust, Inner working chamber SS 304, working base - Granite ,outer Ms powder coated, with PP sink provision and PP tap	1		

<b>D</b>	<b>GC ROOM</b>					
	<b>TABLE SIZE - L-6706 MM D-750MM H-900MM</b> <b>Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
<b>1</b>	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	5			
<b>2</b>	Corner Cabinet	Length =800+800mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
<b>3</b>	Leg Pipe	size =450mm	2			
<b>4</b>	Skirting with top Support	Length =450mm Height = 150mm + 30mm (Top)	2			
<b>5</b>	Back Pannel	Size =450mm	2			
<b>6</b>	Leg Pipe	size =890mm	1			
<b>7</b>	Skirting with top Support	Length =890mm Height = 150mm + 30mm (Top)	1			
<b>8</b>	Back Pannel	Size =890mm	1			
<b>9</b>	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	92			
<b>10</b>	Standard Fitting	Per Sq. Feet	66			
<b>11</b>	Neoprene rubber	Per Running Feet	88			
<b>12</b>	Electrical Raceway	Per Running Feet	22			
<b>13</b>	Two Single - Two Switch & Socket with	6-M Face Plate	6			
<b>14</b>	Data socket		6			
<b>15</b>	Electric wire	Per Running Feet	264			
<b>16</b>	Electric work	Per Running Feet	264			
<b>17</b>	Spot Extractor		1			
<b>E</b>	<b>FTIR ROOM</b>					
	<b>TABLE SIZE - L-6710 MM D-750MM H-900MM</b> <b>Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
<b>1</b>	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	5			
<b>2</b>	Corner Cabinet	Length =800+800mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
<b>3</b>	Leg Pipe	size =450mm	2			
<b>4</b>	Skirting with top Support	Length =450mm Height = 150mm + 30mm (Top)	2			
<b>5</b>	Back Pannel	Size =450mm	2			
<b>6</b>	Leg Pipe	size =890mm	1			

7	Skirting with top Support	Length =890mm Height = 150mm + 30mm (Top)	1			
8	Back Pannel	Size =890mm	1			
9	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	92			
10	Standard Fitting	Per Sq. Feet	66			
11	Neoprene rubber	Per Running Feet	88			
12	Electrical Raceway	Per Running Feet	22			
13	Two Single - Two Switch & Socket with <b>6-M Face Plate</b>		7			
14	Data socket		5			
15	Electric wire	Per Running Feet	264			
16	Electric work	Per Running Feet	264			
<b>F</b>	<b>SAMPLE RECEIVING &amp; STORE ROOM</b>					
	<b>TABLE SIZE - L-1200 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
1	Table	Length =1200MM, Depth = 600MM Height =750MM with 1 storage cabinet of :- Length =400MM, Depth = 400MM 1 Shutter and 1 drawer <b>Pipe Size -25X25mm</b>	1			
2	Chair	With Medium Back	1			
3	Standard Stone	Standard Top - <b>Black (non -z black )</b> Per Sq. Feet (thickness=15mm+ 1mm)	17			
4	Standard Fitting	Per Sq. Feet	12			
5	Neoprene rubber	Per Running Feet	16			
6	MS Rack	Length =900mm, Depth = 450mm Height =1800mm, <b>With 4 Shelf</b>	6			
<b>G</b>	<b>BALANCE ROOM</b>					
1	AVT	Length =900MM, Depth = 600MM Height =885MM <b>With Granite Surface Top</b>	3			
<b>H</b>	<b>DOCUMENTATION ROOM</b>					
	<b>TABLE SIZE - L-2340 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					

1	Table	Length = 1170mm, Depth = 600mm, Height = 750 MM With 2 Storage cabinet for CPU:- Size: 600X300X450mm with Mouse and Keyboard Tray (Upper Side Open of the complete table) CPU storage in behind the below table with key lock	2			
2	Chair	With Medium Back	2			
3	Standard Stone	Standard Top - Z-Black Granite stone, Per Sq. Feet (thickness=15mm + 1mm)	34			
4	Standard Fitting	Per Sq. Feet	24			
5	Neoprene rubber	Per Running Feet	32			
6	Electrical Raceway	Per Running Feet	8			
7	Two Single - Two Switch & Socket with 6-M Face Plate		4			
8	Data socket		2			
9	Electric wire	Per Running Feet	96			
10	Electric work	Per Running Feet	96			
I	<b>IN CHANGE ROOM</b>					
<b>TABLE SIZE - L-1200 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>						
1	Table	Length =1200MM, Depth = 600MM , Height =750MM with 1 storage cabinet of :- Length =400MM, Depth = 400MM 1 Shutter and 1 drawer <b>Pipe Size -25X25mm</b>	1			
2	Chair	With Medium Back	1			
3	Standard Stone	Standard Top - Z-Black Granite stone, Per Sq. Feet (thickness=15mm + 1mm)	17			
4	Standard Fitting	Per Sq. Feet	12			
5	Neoprene rubber	Per Running Feet	16			
	Micro Area					
J	<b>Media Preparation</b>					
<b>TABLE SIZE - L-10062 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>						
1	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	7			
2	Corner Sink Cabinet	Length =800+800mm, Depth = 550mm Height = 760 mm + 125mm	1			



		(Sink cabinet + Bottom Leg) <b>With 1 Shutter</b>				
3	Leg Pipe	size =600mm	2			
4	Skirting with top Support	Length =600mm Height = 150mm + 30mm (Top)	2			
5	Back Pannel	Size =600mm	2			
6	Leg Pipe	size =613mm	1			
7	Skirting with top Support	Length =613mm Height = 150mm + 30mm (Top)	1			
8	Back Pannel	Size =613mm	1			
9	Leg Pipe	size =710mm	3			
10	Skirting with top Support	Length =710mm Height = 150mm + 30mm (Top)	3			
11	Back Pannel	Size =710mm	3			
12	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	143			
13	Standard Fitting	Per Sq. Feet	102			
14	Neoprene rubber	Per Running Feet	136			
15	Electrical Raceway	Per Running Feet	34			
16	Two Single - Two Switch & Socket with <b>6-M Face Plate</b>	Nos	8			
17	Data socket	Nos	7			
18	Electric wire	Per Running Feet	408			
19	Electric work	Per Running Feet	408			
20	Sink	PP Sink, Item Dimension :- 450x600mm	1			
21	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	1			
22	Sink and tap fitting	Fitting charges for tap and sink on site	1			
<b>K</b>	<b>Incubation Room</b>					
	<b>TABLE SIZE - L-7919 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
1	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	5			
2	Corner Sink Cabinet	Length =800+800mm, Depth = 550mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
3	Leg Pipe	size =733mm	3			
4	Skirting with top Support	Length =733mm Height = 150mm + 30mm (Top)	3			

5	Back Pannel	Size =733mm	3			
6	Leg Pipe	size =808mm	1			
7	Skirting with top Support	Length =808mm Height = 150mm + 30mm (Top)	1			
8	Back Pannel	Size =808mm	1			
9	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	109			
10	Standard Fitting	Per Sq. Feet	78			
11	Neoprene rubber	Per Running Feet	104			
12	Electrical Raceway	Per Running Feet	26			
13	Two Single - Two Switch & Socket with <b>6-M Face Plate</b>	Nos	5			
14	Data socket		5			
15	Electric wire	Per Running Feet	312			
16	Electric work	Per Running Feet	312			
17	Sink	PP Sink, Item Dimension :- 450x600mm	1			
18	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	1			
19	Sink and tap fitting	Fitting charges for tap and sink on site	1			
<b>L</b>	<b>Decontamination Room</b>					
	<b>TABLE SIZE - L-5482 MM D-750MM H-900MM Material GI, Material thickness: 0.8mm, Powder Coated, CNC Finishing</b>					
1	Storage Cabinet	Length =600mm, Depth = 550mm Height = 760 mm + 125mm (Storage cabinet + Bottom Leg) <b>With 2 Shutter 1 Drawer</b>	3			
2	Corner Sink Cabinet	Length =800+800mm, Depth = 550mm Height = 760 mm + 125mm (Sink cabinet + Bottom Leg) <b>With 1 Shutter</b>	1			
3	Leg Pipe	size =886mm	1			
4	Skirting with top Support	Length =886mm Height = 150mm + 30mm (Top)	1			
5	Back Pannel	Size =886mm	1			
3	Leg Pipe	size =876mm	1			
4	Skirting with top Support	Length =876mm Height = 150mm + 30mm (Top)	1			
5	Back Pannel	Size =876mm	1			
9	Standard Stone	Standard Top - <b>Z-Black Granite stone</b> , Per Sq. Feet (thickness=15mm + 1mm)	76			
10	Standard Fitting	Per Sq. Feet	54			

11	Neoprene rubber	Per Running Feet	72			
12	Electrical Raceway	Per Running Feet	18			
13	Two Single - Two Switch & Socket with <b>6-M Face Plate</b>	Nos	3			
14	Data socket		3			
15	Electric wire	Per Running Feet	216			
16	Electric work	Per Running Feet	216			
17	Sink	PP Sink, Item Dimension :- 450x600mm	1			
18	Water tap	<b>Three Way Tap</b> , brass, ABS plastic knobs with Epoxy Powder Coated	1			
19	Sink and tap fitting	Fitting charges for tap and sink on site	1			

**Note:**

- 1- The rates should be inclusive of all prevailing taxes/GST, FOR site.
- 2- The bidder should stamp & sign all pages of BOQ.

**Signature**  
**Name & address of bidder**