



राष्ट्रीय पशु जैव प्रौद्योगिकी संस्थान National Institute of Animal Biotechnology



An Autonomous Institute of the Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India

STORES AND PURCHASE SECTION

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NOTICE INVITING TENDER –NIT (SINGLE BID SYSTEM)

E-PROCUREMENT UNDER CENTRAL PUBLIC PROCUREMENT PORTAL

On behalf of the Director, NIAB - Hyderabad, India, <u>Online bids</u> through <u>www.eprocure.gov.in</u> are invited under <u>Single Bid System</u> from manufacturers or their authorized agents/distributors dealing in the product /service as per specification for the supply / installation/ commissioning of the following item(s) / Provide the Service /Work mentioned in Chapter-1 &6 of this NIT.

KINDLY NOTE THAT ONLY ONLINE BIDS WILL BE CONSIDERED AGAINST THIS TENDER.

MANUAL SUBMISSION OF BIDS WILL NOT BE ACCEPTED.

Website for Online Bid Submission: https://eprocure.gov.in.

E-Tendering Procedure: The procurement shall be carried out through submission of online tenders only. No offer in physical form will be accepted and any such offer if received by NIAB will be rejected. Tender documents can be downloaded from our website www.niab.org.in or website of CPPP www.eprocure.gov.in. The bidders will be required to submit their bids online on the e-Procurement module using website www.eprocure.gov.in. Only. The bidders can enrol themselves on the website http://eprocure.gov.in using the option "Click here to Enrol". Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the Company's name is a prerequisite for registration and participating in the bid submission activities through this web site. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site http://eprocure.gov.in under the link "Information about DSC". The web site also has user manuals with detailed guidelines on enrolment and participation in the online bidding process. The user manuals can be downloaded for ready reference.

Please visit website: - http://eprocure.gov.in/eprocure/app and click following section for complete information about E -Procurement process.

- Help For Contractors
- Information About DSC
- <u>FAQ</u>
- Bidders Manual Kit

The helpdesk numbers for any technical queries related to operation of the Central Public Procurement Portal

For any technical related queries E- Mail Support: support-eproc@nic.in, cppp-nic@nic.in, Please visit
website:-http://eprocure.gov.in/eprocure/app or please call at 24 x 7 Help Desk Number 0120-4200 462, 0120-4001 002, 0120-4001 005, 0120-6277 787 International Bidders are requested to prefix +91 as country code (Please check website for latest numbers as updated (if any).

Any queries relating to the NIT document and the terms and conditions contained therein should be addressed to the Manager (Store& Purchase) of NIAB on the contact details mention on the top of this page.

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CONTENTS OF BIDDING DOCUMENT/NIT

| CHAPTER NO | PARTICULAR |
|------------|--|
| | |
| 1 | NIT/DETAILS OF REQUIRMENTS /EMD/TENDER |
| | FEES/IMPORTANT DATES |
| 2 | INFORMATION FOR BIDDERS (PART-1) |
| | |
| 3 | INFORMATION FOR BIDDERS (PART-2) |
| 4 | GENERAL CONDITIONS OF CONTRACT |
| 5 | REQUIRED DOCUMENTS/FORMAT WITH BID |
| | (TO BE UPLOADED ONLINE) |
| | (Format to Isaan was dry before online submission of hids (Tandanaus |
| | (Format to keep ready before online submission of bids ,(Tenderers are required to print this on their company's letter head and sign, |
| | stamp scan, keep pdf file ready before starting of online tender |
| | submission) |
| 6 | TECHNICAL BID COMPLIANCE FORM |
| | SPECIFICATION, OTHER REQUIREMENTS OF THIS NIT |

IMPORTANT NOTE: - PLEASE READ CHAPTER 5 CAREFULLY AND KEEP SCANNED FORMAT DOCUMENTS READY BEFORE SUBMISSION OF THE BID.

Main Process flow to help you in submission of tender. -

- ➤ Take DD ,Write Tender No , Name of Firm , Contact No on backside of DD. Send the DD to NIAB-Hyderabad Address as per due date. SCAN IT IN PDF FORMAT AND UPLOAD ON CPPP before sending it to NIAB. In case of wire transfer, please upload the transaction details of wire transfer on CPPP portal & also send transaction details by E-mail on purchase1@niab.org.in --- for ready information.
- Read Chapter No 5 & 6 carefully & Keep required documents ready, scan it as per file format to be uploaded in Cover -1.

Few of the conditions/ forms in this document may not be applicable for Service/Work requirement as per this tender. Write "NA" in any of the form wherever it is suitable/applicable as per bid submitting firm considering the requirement in tender.

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CHAPTER-1

NIT/DETAILS OF REQUIRMENTS /EMD/TENDER FEES/IMPORTANT DATES

| S N | Name of item | Qty. | Put this Ref. No. on the top of cover | Bid Type |
|--------|---|------------------------------|---------------------------------------|-------------------------|
| 1 | Proposed HVAC system for Scienticific Labs in Different blocks of NIAB Lab Building -VRF System (Site Visit is mandatory to understand the scope of work. Please take certificate of site visit from NIAB concerned authorities. For site visit permission & information Send E mail to spm@niab.org.in / santosh@niab.org.in . (Copy of Email Sent to these email id to be submitted along with BID) Please take confirmation after site visit form NIAB officer & the information will be provided by Email.) (Detailed Specifications in Chapter 6) | As per Specific ations | NIAB/SP/2021-22/25 | SINGLE BID ONLINE |

| TENDER EMD (REFUNDABLE) | Rs Nil /- | Tenders without TENDER PROCESSING FEES / EMD |
|--|--|---|
| TENDER PROCESSSING CHARGES | Rs 1500 /- (NO EXEMPTION TO ANY FIRM) | (if applicable) will be rejected. |
| (THIS FEES IS NOT EXEMPTED TO ANY FIRM & NON REFUNDABLE). (This is not | All the firms want to participate in this tende | r must submit Rs 1500 as |
| tender fees/cost of NIT document as tender is | processing charges failing which your Bid wi | • |
| issued free of cost, can be downloaded on CPPP / | exemption is allowed as per Page No. 8 of this NIT | · |
| NIAB website or will be E mailed if asked from | firms please read page no 8 of this NIT before claim | |
| NIAB. All the firms want to participate this | EMD only. Non Compliance/False information w | • |
| tender must submit this charges failing which | / Ban on Firm for future Tenders. (Rs 1500 /- | - |
| <u>your Bid will be rejected)</u> | mandatory to submit the DD for all the firms) | 10 exemption to any min, |
| | mandatory to submit the DD for an the firms) | |
| MODE OF PAYMENT OF EMD/FEES | Demand Draft of any nationalized/commercial ban | k. |
| (SCANNED COPY OF TENDER FEE AND EARNEST MONEY IS TO BE UPLOADED ONLINE AT THE TIME OF SUBMISSION OF BID) | Please mention firm name & contact no, tender draft and Original DD must be sent to the NIAB Bid Submission Date & Time as mentioned in Cr Alternatively, Tender fee, can be paid https://epayments.in.worldline.com/niab or V | HYDERABAD on or before itical Date Sheet. through online mode via |
| (IN CASE OF ANY PROBLEM IN GETTING THE DD DUE TO COVID LOCKDOWN, AMOUNT CAN BE TRANSFERRED AS PER DETAILS GIVEN) | http://niab.org.in/ AND CLICK ON Online Paymonline. After payment, please upload the transaction details to Ni purchase1@niab.org.in for ready information | tails on CPPP portal. Also IAB- on E mail Id |
| | Bids received without submission of Tender Prerejection. | ocessing Fees are liable for |
| DD IN FAVOUR OF | National Institute of Animal Biotechnology pay | able at Hyderabad. |
| DD TO BE SUBMITTED TO | Manager (Stores & Purchase) National Institute of Animal Biotechnology (NIAB) Opp. Journalist Colony, Near Gowlidoddy, Extended Q City Road, Gachibowli, Hyderabad, Te | , |
| The original EMD amount and Tender Fee in the form | of Demand Draft towards cost of bid documents/processing | g shall be submitted to Manager |

The original EMD amount and Tender Fee in the form of Demand Draft towards cost of bid documents/processing shall be submitted to Manager (Store & Purchase), NIAB by hand delivery/courier on or before the due date for submission of bids failing which the bid will be rejected. The reference no. of the Tender and super scribing the word "EMD and Tender Fee" should be specifically mentioned on the top of the envelope. Any catalogue /broacher /technical literature which is difficult to scan, except bid document is also permitted along with EMD. This document will be used only as extra supportive for information purpose and not mandatory for submission.

| PRE-BID MEETING (IF ANY) | No Pre-Bid meeting. (Contact information given at the end of this document for queries (if any) |
|--------------------------|---|
| | about tender. |

The objective of Pre-Bid Meeting is to provide a platform for clarifying issues and clearing doubts, if any, about the specification and other allied technical / commercial details of the bid document. This is also an opportunity to question the bidding conditions and the bidding process. Bids should be submitted only after the PBM if any so as to take care of the changes made in the bidding document. The prospective PBC participants should inform their intention to participate and send written queries at the email <code>santosh@niab.org.in</code>, <code>purchase1@niab.org.in</code> sufficient before PBC date to enable us to keep the response ready. The changes made to the bidding document subsequent to the PBM shall be treated as amendment to this bidding document and the same shall also be hosted on NIAB website.

| CRITICAL DATE SHEET | (Please strictly adhere to the dates mentioned in this document. |
|---------------------------|--|
| Tender Published Date | 29-03-2022 (As per CPPP portal time) |
| Bid Submission Start Date | 29-03-2022 (As per CPPP portal time) |
| Bid Submission End Date | 19-04-2022 (at 14.00 hrs) |
| Bid Opening Date | 20-04-2022 (at 14.30 hrs) |
| TD1 1'11 / 1 / 1 | 1 11 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |

The bidders are requested to please note that all future amendments/corrigendum will be published on NIAB website and no separate advertisement will be released for the same. Bidders are therefore requested to regularly visit our website for any such updates.

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CHAPTER-2

INFORMATION TO BIDDERS -PART-1

| 1 | Bids shall be submitted online only at CPPP website: https://eprocure.gov.in/eprocure/app. |
|----|---|
| 2 | Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid. Please read Chapter -5 carefully and prepare all required form /Technical & Price Bid ready before starting the procedure. |
| 3 | The bidders can enroll themselves on the website http://eprocure.gov.in using the option "Click here to Enroll". Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the Company's name is a prerequisite for registration and participating in the bid submission activities through this web site. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site http://eprocure.gov.in under the link "Information about DSC". The web site also has user manuals with detailed guidelines on enrolment and participation in the online bidding process. The user manuals can be downloaded for ready reference. Please visit website: - http://eprocure.gov.in/eprocure/app and get complete information. |
| 4 | Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. |
| 5 | The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The person signing the tender documents should be authorized for submitting the on line e-tender. |
| 6 | Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. |
| 7 | Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. |
| 8 | To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process. |
| 9 | Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any future meetings. |
| 10 | Tenderer who has downloaded the tender from the Central Public Procurement Portal (CPPP) website https://eprocure.gov.in/eprocure/app and NIAB website shall not tamper/modify the tender form including downloaded price bid template, All other format in any manner. In case if the same is found to be tempered/ modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with NIAB |
| 11 | Please Make sure all format asked as per CHAPTER - 5 of tender document are properly uploaded online in suitable cover on CPPP Website for E-Procurement http://eprocure.gov.in . |

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CHAPTER - 3

INFORMATION TO BIDDERS -PART-2

SN DETAILS

1 BIDDERS ELIGIBLEITY / QUALIFICATION / REQUIREMENTS

This Invitation for Bids is open to all Original Manufacturers/ their Authorized Dealers/ vendors / suppliers to quote on their behalf for this tender as per Manufacturer's Authorization Form who possess the qualifying requirements as specified in the Tender. Any person signing a Tender shall submit documentary evidence that his signature on the Tender, submitted by him, is legally binding upon himself, his firm. If it is detected that the person so signing the Tender has no authority to do so, the Director, NIAB may, without prejudice to other civil and criminal remedies, not consider the Tender and hold the signatory liable for all costs and damages. Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids. The bidder or his agent must have an office in India. That the Bidder will assume total responsibility for the fault-free operation of equipment, application software, if any, and maintenance during the warranty period and provide necessary maintenance services after end of warranty period if required. Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in poof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc. Other things being equal, preference shall be / may be given to firms who or his principal has supplied and installed similar system at any CSIR/ICAR/ICMR/DAE/DRDO/DST/DBT/other Govt. or autonomous research Labs in India. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf of this tender as per manufacturer authorization form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening in India and is engaged in R&D activities. The Indian Agents of foreign manufacturers / suppliers quoting directly on behalf of their principals for items appearing in the restricted list of the current Foreign Trade Policy registered with DGS&D (if applicable). One Indian Agent cannot represent two different foreign principals for the same item in one tender. The bidder should have executed at least one similar order successfully during the preceding three financial years. Details of service support facilities that would be provided after the warranty period should be submitted in the Service Support Details Form. That, in the case of a Bidder not doing business in India, the Bidder is/or will be (if successful) represented by an Agent in India who shall be equipped and able to carry out the Supplier's maintenance, repairs and spares parts.

2 **OPENING OF BIDS**

In case of SINGLE BID system, the bid is required to be submitted in ONE PART. Techno-Commercial & Financial / Price Bid together as one single bid. In case of single bid system ---- Bids will be opened on the date and time given and technical evaluation committee will chose technically suitable and finically L1 bidder. All the process will be done online through E-PROCUREMENT UNDER CENTRAL PUBLIC PROCUREMENT PORTAL (eprocure.gov.in).

In case of TWO BID system, the bid is required to be submitted in TWO PARTS. One part is the Technical Unpriced Bid (PART-I) and the other part is the Price / Financial Bid (PART-II). In two bid system ------In the first instance, the Technical Bids (PART-I) will be opened. Final selection of the Technical Bids will be based on the Technical Evaluation by the authorities of NIAB. The Price Bid of only those Technical Bid(s) are found technically suitable will be opened subsequently by informing to qualified vendors.

3 LANGUAGE OF BID

The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the purchaser shall be written in Hindi/English language only.

4 DOCUMENTS COMPRISING THE TECHNICAL BID

Please read points given in Chapter-5, for all forms, Details of Installations of similar equipment in India; Availability of number of trained support personnel, both application & service support. Compliance statement indicating yes/no as per the specifications. All necessary catalogues/technical literature, data as are considered essential for full and correct evaluation of offers must be submitted.

5 BID PRICES

Please read points given in **Chapter No- 2** before preparing Price Bid /Quotation and submit the same along with PRICE SCHEDULE 'A' & PRICE SCHEDULE 'B' after considering all the points. **BID PRICE MUST BE IN CURRENCY: - INR (THE INDIAN RUPEE) ONLY**

6 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS

The bidder shall furnish, as part of its bid, documents establishing the bidders' eligibility to bid and its qualification to perform the contract if its bid is accepted. That the bidder meets the qualification criteria as per Bid document. In case a bidder not doing business within the purchasers' country, that the bidder is or will be represented by an agent in the country equipped and able to carry out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc. during the warranty and post-warranty period.

DOCUMENTS ESTABLISHING GOOD'S ELIGIBILITY AND CONFORMITY TO BIDDING DOCUMENTS

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To establish the goods' eligibility, the documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment. To establish the conformity of the goods and services to the specifications, the documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data etc.

8 EARNEST MONEY DEPOSIT (EMD)/TENDER FEES (if any)

The Bidder shall furnish, as part of its bid, Earnest Money Deposit (EMD) / TENDER FEES (if any) specified in the Bid document. This shall be submitted either by the principal or by the Indian agent and in the case of indigenous bidders shall be submitted by the manufacturer or their authorized dealer. The Bid Security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture. The Bid Security shall be in Indian Rupees for offers received for supply within India The Bid Security shall be payable promptly upon written demand by the purchaser in case the conditions in the Tender Documents are invoked. The Bid Security should be submitted in its original format. Copies shall not be accepted. The successful Bidder's Bid Security will be discharged upon the Bidder furnishing the performance security. The firms registered with DGS&D & NSIC, if any, are exempted from payment of EMD provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies. The bid security may be forfeited. If a Bidder withdraws or amends or impairs or derogates its bid during the period of bid validity specified by the Bidder; or In case of a successful Bidder, if the Bidder fails to furnish order acceptance within 15 days of the order and/or fails to furnish Performance Security within 21 days from the date of contract/ order.

9 PERIOD OF VALIDITY OF BIDS

Bids shall remain valid for 180 days after the date of bid opening prescribed by the Purchaser

10 **NEGOTIATIONS**

Negotiations, if any and at all done, shall be held with only the technically Qualified (L1) bidder.

11 PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

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

12 PURCHASER'S RIGHT TO VARY QUANTITY, ADD SPECIAL TERMS IF REQUIRED AT THE TIME OF AWARD OF CONTRACT

The Purchaser reserves the right at the time of award of Contract to increase or decrease the quantity of goods and services originally specified in the Tender documents without any change in unit price or other terms and conditions. This tender document and all terms and conditions, Purchase order terms / special term if mutually agreed will be form parts of total contract.

13 JOINT VENTURE, CONSORTIUM OR ASSOCIATION

If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

14 **DISQUALIFICATION OF TENDERS**

Tenders are liable for rejection if they are not in line with the terms and conditions of this tender notice. Conditional quotations will be liable for rejection or may not be considered. Incomplete tenders /tenders without EMD will be liable for rejection. Submission of Single Bid as against Two Bid System or Quotes submitted in Email/fax will be rejected. The Bidder should ensure that the prices are mentioned only in the Price Bid and nowhere in the Technical Bids in case of TWO BID SYSTEM.

15 PRELIMINARY EXAMINATION /EVALUATION & COMPARISON OF BIDS

Technically SPECIFICATION Qualified L1 BIDDER is main base point for award of contract. The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in have been provided, required sureties have been furnished, and to determine the completeness of each document submitted. The Purchaser will examine the technical bids to determine whether they are complete, whether the documents have been properly signed, and whether the bids are generally in order. The competent committee decision and parameters will be final for qualifying the firms technically. No queries will be entertained for the decision and method for the same. No interim queries will be entertained till final award of contract. The total cost of requirement/item/service to be purchased is main criteria for evaluation irrespective of different standard warranty period offered in any. The purchase of Additional warranty /CMC is at sole discretion of institute and not mandatory for comparison in case of standard warranty period differs. For the bids surviving the technical evaluation which have been found to be responsive the evaluation & comparison shall be made as under: The final landing cost of purchase after all discounts, freight, forwarding, insurance warehouse to warehouse, custom clearing charges, all duties, taxes etc. shall be the basis of evaluation. Imported Vs. Indigenous Offers - The final landing cost (ware house to ware house) of purchase taking into account, freight, forwarding, insurance, taxes etc. CIF/CIP applicable if any with customs clearance charges, Bank/LC charges, transportation up to NIAB, Hyderabad shall be the basis of evaluation. Conditional tenders/discounts etc. shall not be accepted. Rates quoted without attached conditions (viz. Discounts having linkages to quantity, payment terms etc.) will only be considered for evaluation purpose. Thus conditional discounted rates linked to quantities and prompt/advance payment etc. will be ignored for Comparison. The Purchaser however reserves the right to use the discounted rate/rates considered workable and appropriate for counter offer to the successful tenderers. Arithmetical errors in the financial bids will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its bid will be rejected. If there is a discrepancy between the price quoted in words and figures, the rate quoted in words will be taken as final and shall be binding on the Bidder. BID PRICE MUST BE IN CURRENCY: - INR (THE INDIAN RUPEE) ONLY.

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The competent authority at its discretion can use the following criteria/method of evaluation to award the contract.

| | | Technical Marking Points (A) | T |
|----|---------------|--|---------------------------|
| SN | Point | Description | Marks |
| 1 | Specification | Technical Specification adherence as per bid submitted, | |
| | of | Quality of Make /Material Quoted as per BID. | |
| | requirement | | |
| 2 | Past | Overall company profile Past supply, Quality of past | |
| | Supply/work | Supply completed, delivery schedule, completed | |
| | experience | contract, value of contract, Customer feedback, work | |
| | | done for Govt /Autonomous /semi Govt organization etc | |
| | | as assessed by committee constituted by competent | |
| | | authority. | |
| 3 | Company | Technical expertise HR, service support of company, | |
| | Profile | Project handling skills, professional membership, | |
| | | standards certification, Average/Annual turnover, | |
| | | financial strength & status, bank solvency of firm. etc | |
| 4 | Technical | Technical Presentation to committee about requirement | |
| | presentation | /features of products/ plan /execution of work / Layout, | |
| | | sample module/demo, plan of work etc as & if required | |
| | | by NIAB | |
| | | Total | 100 |
| | | | |
| | | Part A | 60 % of Above total Marks |

Considering above points, firms are informed to submit all relevant supporting documents which will give them better marks in above technical criteria.

| Financial Marking Points (B) | | |
|---|-------|--|
| The price Bid will be opened. Ranking will be done as L1 ,L2,L3,L4etc on total cost basis & L1 will be the lowest cost of all . Then L1 will be given 100 Marks. L2 = $(L1 \cos t \times 100) / L2 \cos t$. and like L3 , L4 marks will be calculated. | | |
| | | |
| Part -B 40 % of Above total | | |
| | Marks | |

<u>Total Marks = Part -A+ Part -B mentioned as above will be calculated.</u> <u>Firm getting highest marks (Part -A+ Part -B) will get contract</u>

The decision of competent authority & concerned committee of NIAB will be final about the process of evaluation and award of contract and no claim whatsoever will be entertained in this regards. Considering above points, firms are informed to submit all relevant supporting documents which will give them better marks in above technical criteria. Please Quote best discounted price. This will be helping the firm in getting this contract.

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MSE Guidelines for EMD/Tender Fees Exemption

| Revised Classification applicable w.e.f 1st July 2020 | | | | | |
|---|--|--|--|--|--|
| Composite Criteria: Investment in Plant & Machinery/equipment and Annual Turnover | | | | | |
| Classification Micro Small Medium | | | | | |
| Manufacturing Investment in Plant and Enterprises and Machinery or Enterprises Equipment: rendering Services Not more than Rs.1 crore and Annual Turnover; not more | | Investment in Plant and Machinery or Equipment: Not more than Rs.10 crore and Annual Turnover; not more than | Investment in Plant and Machinery or Equipment: Not more than Rs.50 crore and Annual Turnover; not more than Rs. 250 crore | | |
| than Rs. 5 crore Rs. 50 crore | | | | | |

Presently EMD/Tender Fee exemptions and price preference are applicable to only Micro and Small Industries. View above, if you are claiming EMD/Tender Fee exemptions, you should meet above criteria / criteria as revised for Micro and Small Industries.

- 1 You have to submit your supporting documents issued by competent Govt bodies to become eligible for the above exemption.
- 2 Also your certificate (NSIC) / MSE shall cover the items tendered to get EMD/Tender fee exemptions.
- 3 NSIC certificate shall be valid as on due date / extended due date of the tender.
- 4 In case the bid is submitted as an Indian arm of a foreign bidder and the eligibility criteria conditions were met thru foreign company, then the EMD Exemption cannot be claimed under the MSME status of Indian arm / subsidiary.
- 5 UAM number :- Udyog Aadhar memorandum (UAM) number issued by MSMS , Copy of Registration Certificate issued by NSIC, With current validity / MSE / MSEs owned by SC/ST entrepreneurs in respect of those who are seeking exemption for payment of Earnest Money Deposit (Bid Security)/fees.

Thus a Bidder who solely on it's own, fulfills each eligibility criteria condition as per the tender terms and conditions and who are having MSE status, can claim EMD exemption/ tender fee but not Rs 1500/-processing charges which is mandatory for all. If all these conditions are not fulfilled or supporting documents are not submitted with the Bid, then all those Bids without Tender fees /EMD will be summarily rejected and no queries will be entertained.

This Tender document is free of cost and no tender fees is applicable. EMD exemption is as rules mentioned herein.

TENDER PROCESSSING CHARGES Rs 1500 /- in this NIT is mandatory for all firms and not exempted to any firm.

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| Please read above points before preparing Price Bid /Quotation and submit your | | | | | |
|--|--|--|--|--|--|
| | quotation after carefully reading /considering all the points. | | | | |
| SN | Point | Description | Point Noted & complied in Price Bid. | | |
| | | | Mark ✓ | | |
| 1 | Price Breakup | The Bidder shall indicate the unit prices, discounts rate / percentage and total bid prices of the goods it proposes to supply. All breaks up of price incl Packing, Transportation, Taxes, incidental expenses must be given up to satisfactory installation in NIAB premise. Vague terms like "packing, forwarding, transportation, taxes etc. extra" without mentioning the specific amount/percentage of these charges will NOT be accepted. Where there is no mention of packing, forwarding, freight, insurance charges, such offers shall be summarily rejected as incomplete / non-responsive. Prices quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. | □ Point Noted for Bid Preparation | | |
| 2 | Quote for Complete item set up / functioning required as per specification. | Item quoted should be completed in all respects; any additional accessories required instrument to operate /function should also be quoted as part of the instrument and should be supplied along with instrument. It should not be included in optional. | □ Point Noted for Bid Preparation | | |
| 3 | Optional accessories / PC /UPS /stabilizer | The cost of accessories in optional should be quoted separately. List of all optional accessories with detail specification must be given with List price & discount. | □ Point Noted for Bid Preparation | | |
| 4 | Bid Currencies | PLEASE quote your price in Currency: INR (The Indian rupee) only. Please read all instructions given in all column of BOQ to be uploaded on CPPP. BID PRICE MUST BE IN CURRENCY: - INR (THE INDIAN RUPEE) ONLY | □ Point Noted for Bid Preparation | | |
| 5 | For indigenous Items OR goods of foreign origin to be supplied in Indian currency | Ex-factory / Ex-warehouse //Ex-showroom /Off-the shelf Tax (if any) [%age & value] Transportation, loading/unloading and incidental costs till NIAB site Insurance charges (if any with period cover) Incidental services (including installation & commissioning, and training) at NIAB site | □ Point Noted for Bid Preparation | | |
| 6 | Taxes, Custom duties etc. | For NIAB Customs Duty under notification No.51/96 dated 23.07.1996. Hence Customs Duty, if any, should be shown separately. Please mention the applicable taxes clearly. We don't issue any 'Form C' or 'Form D'. Custom bonded warehouse price should be quoted in case of imported item quoting INR. Instrument quoted should be complete in all respects. If there is no explicit mention about taxes in your offer, then quoted price will be deemed inclusive of all such taxes and no other charges except those mentioned clearly in the quotation will be paid. The GST Rates / Exemption applicable will be as per GOI, MoF Notification No. 47/2017-Integrated Tax (Rate) dt. 14/11/2017 & GOI - GST Law 2017 as applicable. The Custom duty Rates / Exemption will be as applicable as per Govt. of India Rules as applicable to DSIR Registered institute/Govt. funded research institute. It is certified that National Institute of Animal Biotechnology, is an Autonomous Institute of the Department of Biotechnology, Ministry of Science & Technology, Govt. of India and it is registered with the (DSIR) Department of Scientific & Industrial Research, Government of India vide their Registration No. TUV/RG-CDE(1175)/2020 dated 28th Aug 2020, Valid up to 31.08.2025. | □ Point Noted for Bid Preparation | | |
| 7 | Bid Validity | The Bid should be valid for at least 180 days. | □ Point Noted for Bid Preparation | | |

The charges for Annual CMC after warranty shall be quoted separately as Comprehensive per price schedule 'B'. WARRANTY & AMC Standard Warranty period is taken as 12 Months unless otherwise specified **Point** in NIT specification. Noted for Bid Please quote for Extra Warranty After completion of standard warranty period/as mentioned in NIT specification. **Preparat** ion The purchase of Additional warranty /CMC is at sole discretion of institute. The cost of Annual Maintenance Contract (AMC) which includes preventive maintenance including testing & calibration as per technical/service/ operational manual and labour, after satisfactory completion of warranty period may be quoted for next 3 (or as specified) years on yearly basis for complete equipment. The cost of CMC may be quoted along with taxes applicable on the date of Tender opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later. Cost of CMC will be added for ranking/evaluation purpose. The uptime warranty will be 98% on 24 (hrs) x 7 (days) x 365 (days) The stipulation in technical specification will supersede above provision. The supplier shall keep sufficient stock of spares required during comprehensive maintenance contract period. In case the spares are

Please read above points before preparing Price Bid /Quotation and submit your quotation after carefully reading /considering all the points. Please read all instructions given in all column of BOQ to be uploaded on CPPP. IN CASE OF ANY DISCREPANCY IN PRICE/COST SUBMITTED IN BOQ FORMAT AS WELL AS ANY OTHER DOCUMENT AS MENTIONED IN NIT, THE DECISION OF NIAB COMPETENT AUTHORITY WILL BE FINAL AND BINDING FOR FIRM PARTICIPATED IN TENDER.)

required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

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CHAPTER 4 GENERAL CONDITIONS OF CONTRACT SN **DETAILS** DEFINITIONS In this Contract, procurement through this tender, the following terms shall be interpreted as indicated: The following words and expressions shall have the meanings hereby assigned to them: "Contract Price" means the price payable to the Supplier as specified in the Purchase Order, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract. "Day" means calendar day. "Completion" means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Purchase Order. "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser as per the Purchase Order. "Related Services" means the services incidental to the supply of the goods, such as transportation, insurance, installation, commissioning, training and initial maintenance and other such obligations of the Supplier as per the Purchase Order. "Supplier" means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Purchase Order. The final destination," where applicable, means the place of delivery as indicated in the Purchase Order. "The Purchaser" is 'The Director, National Institute of Animal Biotechnology (N.I.A.B), Hyderabad, Telangana. "The Purchaser's country is "India". 2 SUPPLIER'S RESPONSIBILITIES The Supplier shall supply all the Goods and Related Services included in the Scope of Supply and the Delivery and Completion Schedule, as per Purchase Order Terms. SUB-CONTRACTS 3 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract. Sub-contract shall be only for bought-out items and sub-assemblies. The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent 4 CONTRACT PRICE Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Purchase Order shall not vary from the prices quoted by the Supplier in its bid. COPY RIGHT 5 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party PATENT RIGHTS 6 The Supplier shall indemnify the Purchaser against all third-party claims if any, of infringement of patent, trademark or industrial design rights, copy rights arising from use of the Goods or any part thereof in India. INSPECTIONS AND TEST 7 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services Or as discussed during the course of finalizing the contract. The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data -shall be furnished to the inspectors at no charge to the Purchaser. **PACKING** 8 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit. In order to maintain safety of the equipment, we prefer to have wooden crating with adequate cushion inside for transportation of any goods. The Material to be dispatched with International standard packing to withstand Rigors, and to avoid any transit damages. Each package will be marked on three sides with proper paint/indelible ink, the following: Purchaser Name & Address, Item Nomenclature, Order/Contract No., Country of Origin of Goods, Packing list reference number AMENDMENTS 9 The Purchaser may at any time, by written order given to the Supplier make changes within the general scope of the Contract as mutually agreed terms 10 **DELIVERY AND DOCUMENTS** Delivery of the Goods and completion related services shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Purchase Order/Maximum within 08 weeks.

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Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Purchase Order. The details of shipping and / or other documents to be furnished by the supplier are also specified in Purchase Order.

Delivery of the goods should be made as per the Delivery Schedule incorporated in the Purchase Order. The supplier should intimate the shipment details within 72 hours before for custom clearance of the material.

The supplier shall notify the purchaser the full details of the shipment including order/contract number, railway receipt number /AWB etc and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall e-mail the following documents to the purchaser, with a copy to the Clearing Agent.

- i. 3 copies of the Supplier invoice showing Order/contract number, goods' description, quantity, unit price, total amount;
- ii. Acknowledgement of receipt of goods from the consignee(s) by the transporter;
- iii. Insurance Certificate if applicable;
- iv. Manufacturer's/Supplier's warranty certificate;
- v. Inspection Certificate issued by the nominated inspection agency, if any, and the Supplier's factory inspection report; a
- vi. Certificate of Origin.
- vii. Two copies of the packing list identifying the contents of each package.
- viii. Airway Bill / Bill of Lading

The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

Please make appropriate commitments in writing that the instrument model being offered is current and is not likely to be obsolete within the next couple of years and that spare parts will be available for it for at least seven years after the installation. The Installation of the equipment is deemed complete only after all the sub-units of the main equipment such as the computers/printers/UPS/Software etc., is installed and tested as per the specifications in the offer/brochure / purchase order and demonstrated to the satisfaction of the end user.

11 INSURANCE

The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "Warehouse to warehouse" (final destinations) on "All Risks" basis including war Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. However, in case of orders placed on FOB/FCA basis, the purchaser shall arrange insurance.

12 TRANSPORTATION

Where the Supplier is required under the Contract to deliver the Goods on FOB, transport of the Goods, up to and including the point of putting the Goods on board the vessel at the specified port of loading, shall be arranged and paid for by the Supplier. Where the Supplier is required under the Contract to deliver the Goods FCA, transport of the Goods and delivery into the custody of the carrier at the place named by the Purchaser or other agreed point shall be arranged and paid for by the Supplier, and the cost thereof may be included in the Price Schedules. Where the Supplier is required under the Contract to deliver the Goods CIF or CIP, transport of the Goods to the port of destination or such other named place of destination in the Purchaser's country, as shall be specified in the Contract, shall be arranged and paid for by the Supplier, and the cost thereof maybe included in the Price Schedules. In the case of supplies from within India, where the Supplier is required under the Contract to transport the Goods to a specified destination in India, defined as the Final Destination, transport to such destination, including insurance and storage, shall be arranged by the Supplier, and the related costs may be included in the Contract Price.

13 STANDARDS

The Goods supplied and services rendered under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution

14 WARRANTY

The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

The Warrantee should be comprehensive and on site. The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.

The warranty shall remain valid for twelve (12) months from the date of installation of the equipment or as per the Specification whichever is higher. The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects. Upon receipt of such notice, the Supplier shall, within a reasonable period of time expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser. If during the period of warranty any component or spare part is need to be brought from abroad, all associated cost shall be borne by the supplier including the cost of customs duty.

All incidental charges / additional duties incurred for importing warrantee replacements are to be borne by the suppliers. The defective material / goods will not be handed over to the supplier and the same will be re-exported to the place of manufacturer at the cost of the supplier. In case, the manufacturer has the office in India the same may be handed over to them with an undertaking that they will re-export to their manufacturing facility within a reasonable time and submit the proof to that extent.

If having been notified, the Supplier fails to remedy the defect within a reasonable period of time; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

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15 TERMS OF PAYMENT

Payment Term will be finalized by NIAB Policy and remain mandatory for supplier as issued in Contract /Purchase order. Our rules do not permit any advance payment either direct or through a bank. However, payment of your bill will be made after receipt of the articles in good condition & successful installation by way of DEMAND DRAFT /Wire Transfer as per NIAB Order Terms & conditions. For Indigenous items Payment will be made after delivery and installation. All banking charges outside India will be borne by the supplier and inside India charges will be borne by the purchaser. Commercial Invoice produced by Reprographic system or automated computerized system marked as original not acceptable. **The following documents shall be required by the Purchaser for payment.** Signed commercial invoice in quadruplicate, Certificate of Origin issued by the Beneficiary/ Concerned Chamber of Commerce, Insurance copies/ certificates, Airway Bill / Bill of Lading Copy, Packing list indicating description of goods and quantity package wise in triplicate.

16 **EXTENSION OF TIME**

Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified in the contract. If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without penalty, in which case the extension shall be ratified by the parties by amendment of the Contract.

Except as provided under the Force Majeure clause, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of penalty pursuant to Penalty Clause unless an extension of time is agreed upon pursuant to above clause without the application of penalty clause.

17 PENALTY CLAUSE

Subject to clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Purchase order, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to 1 percent of the order value for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of 10 Percent. Once the maximum is reached, the Purchaser may consider termination of the Contract for Default.

18 TERMINATION FOR DEFAULT / INSOLVENCY

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

If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser If the Supplier fails to perform any other obligation(s) under the Contract. If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent or collusive or coercive practices.

In the event the purchaser terminates the contract in whole or in part, he may take recourse to any one or more of the following action: The Performance Security is to be forfeited.

The purchaser may procure, upon such terms and in such manner as it deems appropriate, stores similar to those undelivered, and the supplier shall be liable for all available actions against it in terms of the contract. The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the Purchaser.

19 NOTICES

Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing and confirmed to the other party's address specified in the Purchase Order.

20 SITE PREPARATION AND INSTALLATION

The supplier shall inform the purchaser about the site preparation, if any, needed for installation, of the goods at the purchaser's site immediately after placement of Purchase Order. In compliance with the technical and environmental specifications Supplier to perform a site inspection to verify the appropriateness of the sites before the installation of the equipment, if required.

21 TAXES AND DUTIES

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the ordered Goods to the Purchaser at the final destination.

22 INCIDENTAL SERVICES

The supplier may be required to provide any or all of the services, as discussed during the course of finalizing the contract. User and detailed Service Manual /training to be supplied along with the equipment.

23 **SPARE PARTS**

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The Supplier shall be required to provide the spare part details/materials, notifications, and information pertaining to its manufacture or distribution: Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and In the event of termination of production of the spare parts: advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed Requirements if any; and Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

24 PERFORMANCE SECURITY

The successful Bidder must be ready to provide Performance security (3% of the order value unless mentioned otherwise) in the Performance Security Form provided in the Bid Document, within 21 days of the receipt of notification of award/purchase order from the Purchaser or/as mentioned in purchase order/contract awarded failing which it shall be presumed that the vendor is not interested and his bid security is liable to be forfeited & the contract shall be deemed terminated. The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract. Bidder can submit the performance security of Bank Guarantee issued by a Nationalized/Scheduled bank located in India on the format provided in the bidding documents / as issued by NIAB post contract. The PBG will be forfeited in case supplier fails to honour contractual obligation.

25 FRAUD AND CORRUPTION

The purchaser requires that the bidder's suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

"Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution; "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract; "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive levels; and "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract. The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

26 **SETTLEMENT OF DISPUTES**

The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract. If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration. In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director, NIAB and if he is unable or unwilling to act, to the sole arbitrator so appointed shall be final conclusive and binding on all parties to this order. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The Venue of the arbitration shall be the place from where the order is issued.

27 **APPLICABLE LAW**

The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction Hyderabad.

28 Your Bid will be rejected if Technical Bid Compliance form AS PER THIS NIT is not submitted.

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CHAPTER - 5

REQUIRED DOCUMENTS/ FORMAT WITH BID (TO BE UPLOADED ONLINE)

FORMAT TO KEEP READY BEFORE ONLINE SUBMISSION OF BIDS

Bid will contain all the technical details of the products along with following format. Please keep all the following documents ready as per format mentioned herein for uploading on the website during online submission of your bid. Non Submission of these format may result in rejection of your bid. Read all forms carefully and submit it exactly same as per below format. Changing of our wording of format may result in rejection of your bids. BOQ final cost must be same as per Quotation / Price Bid submitted as per above documents

IT IS SINGLE BID ---- THERE IS ONLY COVER -1 --- FEE/PRE QUAL/TECHNICAL/FINANCE

KEEP SCAN COPY OF PART -1, PART-2, PART-3 READY AS PER FORMAT BEFORE STARTING APPLYING FOR TENDER ON CPPP

| BEFORE STARTING APPLYING FOR TENDER ON CPPP | | | | |
|--|------------------|---|--|--|
| Documents to be uploaded on CPPP Cover 1 | Documents format | Documents to be uploaded (keep ready, scanned as one file as per as per format mentioned herein) | | |
| | | | | |
| Part -1 as per NIT | .pdf | Price Quotation on firm's Letterhead giving full cost, tax details (all in detail) for the requirement mentioned in NIT. COST AS PER THIS QUOTATION SHOULD MATCH WITH BOQ | | |
| (All documents asked as per point No 1, 2, 3 | | 2. Complete Technical Compliance Form as Per NIT. | | |
| to be uploaded , KEEP IT READY BEFORE ONLINE SUBMISSION scanned AS ONE .pdf file) | | 3. All supporting Technical documents ,description / Literature / Catalogue showing technical compliance for the requirement Mentioned in NIT. | | |
| Part -2 as per NIT | .pdf | 1. SCAN COPY OF DD (EMD /TENDER PROCESSING FEES/TENDER FEES AS APPLICABLE.) | | |
| (All documents asked as per point No 1, 2, 3 to be uploaded, KEEP IT READY BEFORE ONLINE SUBMISSION scanned AS ONE .pdf file) | | ALL FORMS REQUIRED TO BE SUBMITTED AS PER THIS NIT INCLUDING PRICE SCHEDULE 'A' & PRICE SCHEDULE 'B' FORMAT AS PER NIT. Copy of PAN card/ Certificate of Registration with Govt. Tax Authorities / GST / UAM number Udyog Aadhar memorandum (UAM) number issued by MSMS IF ANY, Copy of Registration Certificate issued by NSIC, Govt. of India Enterprise/ DG, S&D / MSME, units registered with District Industries Centre / Joint Director of Commerce and Industries, Govt. of Telangana/ respective State Govts. With current validity / MSE / MSEs owned by SC/ST entrepreneurs in respect of those who are seeking exemption for payment of Earnest Money Deposit (Bid Security)/fees. / PO copies of similar work done/item supplied | | |
| Part -3 as per NIT BOQ | .xls | 1. BOQ /Finance details BOQ can be downloaded from CPPP along with other NIT, filled with price & name of firm and then uploaded again. Please read all instructions given in all column of BOQ to be uploaded on CPPP. | | |
| KEEP ABOVE | DOCUMENT | S SCANNED AS PER FORMAT MENTIONED ABOVE, READY | | |
| | | ADT ADDI VINC FOR TENDED ROO FINAL COST MUST BE | | |

FOR UPLOAD BEFORE START APPLYING FOR TENDER. BOQ FINAL COST MUST BE SAME AS PER QUOTATION / PRICE BID SUBMITTED AS PER Part -1 as per NIT ABOVE

(FORMS TO BE SUBMITTED ALONGWITH YOUR BID OTHERWISE YOUR BID WILL BE REJECTED) KEEP THESE FROMS READY AS PER FORMAT MENTIONED ABOVE, READY FOR UPLOAD BEFORE START APPLYING FOR TENDER.

FORM NO - 1 PROCESS COMPLIANCE/ACCEPTANCE OF TENDER CONDITIONS FORM

The Director.

National Institute of Animal Biotechnology (NIAB),

Opp. Journalist Colony, Near Gowlidoddy,

Extended Q City Road, Gachibowli, Hyderabad, Telangana, India -32

Sir.

We hereby confirm the following.

The undersigned is authorized representative of the company. We have carefully gone through the NIT, Tender Documents and the Rules governing the e-tendering as well as this document. We have examined and have no reservations to the Bidding Documents, including addendum (if any). We offer to supply in conformity with the Bidding Documents and in accordance with the condition of contact, specified in this tender document. We will honour the Bid submitted by us during the e-tendering. We give undertaking that if any mistake occurs while submitting the bid from our side, we will honour the same.

Bid securing declaration: - We accept that if we withdraw or modify Bids during the period of validity, or if we are awarded the contract and fail to sign the contract, or to submit a performance security before the deadline defined in this bids document, we will be suspended for the period of 01 year from being eligible to submit Bids for contracts with NIAB.

We are aware that if NIAB has to carry out e-tender again due to our mistake, NIAB has the right to disqualify us for this tender. We confirm that NIAB shall not be liable & responsible in any manner whatsoever for my/our failure to access & submit offer on the e-tendering site due to loss of internet connectivity, electricity failure, virus attack, problems with the PC, digital signature certificate or any other unforeseen circumstances etc. Our bid shall be valid for the period from the date fixed for the bid submission deadline, and it shall remain binding upon us and accepted at any time before the expiration of bid validity period as per this tender. IN CASE OF ANY DISCREPANCY ABOUT PRICE/COST IN PRICE BID, SCHDULE A / COST SUBMITTED IN BOQ FORMAT/ COMPARATIVE GENERATED BY CPPP AS WELL AS ANY OTHER DOCUMENT AS MENTIONED IN NIT, THE DECISION OF NIAB COMPETENT AUTHORITY WILL BE FINAL AND BINDING FOR FIRM PARTICIPATED IN TENDER.

If our bid is accepted, we commit to provide a performance security in Bank Guarantee /Fixed Deposits for due performance of the contract as per NIAB policy and warranty-guarantee as per tender specification or agrees as per contract. We understand that this bid, together with your written acceptance thereof included in your notification of award/placement of order, shall constitute a binding contract between us. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive. We accept that the competent authority in NIAB will have full right to reject any/all offer(s) without assigning any reason thereof and does not bind itself to accept the lowest or any other tender and full authority to postpone the tender issue date, submission /opening date or to alter any other condition of tender /cancellation of this tender, as per policy/committee recommendations of NIAB at any stage without assigning any reason thereof for which no claim from whomsoever will be entertained. I/We the undersigned, have read the entire terms and conditions of this Tender document and we are fully agreeable to the terms and conditions mentioned herein. The decision of competent authority of NIAB with respect to this Tender-Result will be fully agreeable and binding on us.

This letter can be treated as signed and acceptance copy of tender documents and the forms submitted as signed by competent authority of firm submitting this tender and there is no need to submit separate signed copy of tender document.

Competent Authority to sign:

Name:
Designation:
Contact Details :-

Date with stamp & seal of organization:

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| Phone/Fax/Email :- | |
|--|------------------------|
| Office Hours :- | |
| Details of Service Facilities available :- | |
| (FORM NO 3) | |
| PRICE REASONABILITY CERTIFICATE | |
| This is to certify that we have offered the maximum possible discounted price to your required as per this Tender No | in |
| our Quotation No | date |
| for total value Rs for total value Rs submitted .We would like to certify that the quoted price are the minimum and we have item on lesser rates than those being offered to NIAB to any other customer nor we so of offer or execution of purchase order, whichever is later. | ve not quoted the same |
| • | |
| (FORM NO 4) | LICED |
| PERFORMANCE STATEMENT/ CLIENTELE/LIST OF Attached separate sheet in same format if above place is not sufficient | <u>USEK</u> |
| Attacheu separate sheet in same format ii above place is not sufficient | |

| | SN | Name & | Address of | Description and quantity of ordered | Purchase Order No. | Date of | Contact Person along with Tel. |
|---|----|-----------|------------|-------------------------------------|--------------------|----------|--------------------------------|
| | | purchaser | | equipment | and date | delivery | NO., Fax No. & e-mail address |
| | | | | | | | |
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| L | | | | | | | |

Please find attached herewith our list of clients to whom we have supplied the same /similar equipment as required vide this Tender No _____ dt ____ for the item ____

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(FORM NO 5) MANUFACTURERS' AUTHORIZATION

Note: This letter of authority should be on the <u>letterhead of the manufacturer</u> and should be signed by a person competent and having the power of attorney to bind the manufacturer. In case of foreign manufacturer, scan copy can be accepted if supported by copy of original valid normal authorization to local distributor is submitted along with above format.

| The Director, National Institute of Animal Biotechnology (NIAB), Opp. Journalist Colony, Near Gowlidoddy, | | | | | | | |
|--|--|--|--|--|--|--|--|
| xtended Q City Road, Gachibowli, Hyderabad, Telangana, India -32 | | | | | | | |
| Sir, | | | | | | | |
| We who are established and reputed manufacturers of the equipment having factory at (address of factory) do hereby authorize M/s (Name and address of Agent) on our behalf to submit a bid, negotiate and receive the order from you against your tender No dt We hereby extend our full support, guarantee and warranty as per the Terms and Conditions of this Tender/PO (issued if any) for the goods and services offered by the above firm as per this tender. | | | | | | | |
| Competent Authority to sign: Name, Designation: | | | | | | | |
| Date with stamp & seal of organisation: | | | | | | | |
| (FORM NO- 6) LINDEDTAKING TO SUDMIT DEDECOMANCE DANK CHARDNATEE | | | | | | | |
| UNDERTAKING TO SUBMIT PERFORMANCE BANK GUARRNATEE | | | | | | | |
| The Director, National Institute of Animal Biotechnology (NIAB), Opp. Journalist Colony, Near Gowlidoddy, Extended Q City Road, Gachibowli, Hyderabad, Telangana, India -32 | | | | | | | |
| Sub:- Assurance for PBG | | | | | | | |
| Sir, | | | | | | | |
| We the Firm are participating in your Tender No | | | | | | | |
| If our bid is accepted against this subject tender notice, we commit to provide a performance security for due performance of the contract as per NIAB policy/format/form and warranty-guarantee as per tender specification or agrees as per contract valid for 60 days more than the contract period. We accept that PBG on the instruction of competent authority of NIAB will be forfeited in case our failure in meeting contractual obligation. | | | | | | | |
| Thank you. | | | | | | | |

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Competent Authority to sign:

Date with stamp & seal of organisation

Name, Designation:

(FORM NO 7) ORGANISATIONAL DETAILS

| 1 | Name & Address of the applicant with Telephone No./Fax No./ Email ID | |
|----|--|--|
| 2 | Address of local office (in Hyderabad/India) | |
| 3 | Year of Establishment | |
| 4 | Legal status of the applicant (attach copies of original document defining the legal status) | |
| | a) A proprietary firm | |
| | b) A firm in partnership | |
| | c) A limited company or Corporation / Joint venture / Consortia /Any other | |
| 5 | Names of Key executives with designation to be connected with this bid /Designation of individuals authorized to act on behalf the organization.(Contac No /E mail ID) | |
| | Details of manufacturer /factory | |
| 6 | Name :- Address :- | |
| | Has the bidder, or any constituent partner in | |
| 7 | case of partnership firm / limited company/ Joint venture, ever been convicted by the court of law? If so, give details. | |
| 8 | Any other information considered necessary from your side but not included above. | |
| 9 | Confirm that the Bidder has not been banned OR delisted/blacklisted by any Government or Quasi Government agencies or Public Sector Units. | |
| 10 | Confirm that Bidder is not under Liquidation, court Receivership or similar proceedings. | |
| | | ORITY NAME , SIGN & DATE SEAL OF ORGANIZATION |

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<u>FORM NO – 8</u> FINANCIAL INFORMATION

| - 1 | ` | _ | 4 | _ |
|-----|---|---|---|---|
| 1 | J | а | ι | C |

To, Director NIAB Hyderabad

I the undersigned certify that the following details submitted is verified by me and is found correct.

LAST THREE YEARS DATA EXCLUDING CURRENT YEAR

| G N | Financial / | Annual Turnover | Profit | Loss |
|-------|-----------------|-----------------|--------|-------|
| S.No. | Accounting Year | (Rs.) | (Rs.) | (Rs.) |
| | | | | |
| | | | | |
| | | | | |

AVERAGE TURNOVER OF LAST THREE YEARS = EXCLUDING CURRENT YEAR DATA

COMPETENT AUTHORITY NAME, SIGN & DATE WITH STAMP & SEAL OF ORGANIZATION

The details to be furnished must be supported by figures in balance sheet/profit and loss account and relevant authorized documents.

<u>Or</u>

Above form No - 8 on letterhead of your Chartered accountant can also be accepted in lieu of supporting documents.

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FORM NO - 9

BIDDER UNDERTAKING FOR COMPLIANCE TO NIT BID TERMS & FOLLOWING PROVISION OF THIS NIT

This is to certify that, I/We the Bidders have read all terms of this NIT & the below information/OM. I/we hereby declare that we will provide all information desired by NIAB competent authority in this regard at any stage of this procurement. In the event of failure to provide required information, submitted information being found false or incorrect at any stage, bid shall be liable to rejection/termination of accepted Bid/Order /any further action suitable in accordance of law of GOI.

| Sr No. | OM No. / Description | | | | | |
|-----------|--|--|--|--|--|--|
| 1. | OM No F.No.6/18/2019-PPD dated 23rd/24th July 2020 (Public Procurement 1, 2 and 3) issued by Ministry of Finance, Department of Expenditure, Public Procurement Division and any further change / Amendment w.r.t this OM regarding Eligibility of bidders from specified countries | | | | | |
| 2. | OM No F.20\212014-PPD dated 25.07.2016 and subsequent clarifications dt 20.09.2016; 27.07.2019; 29.06.2020 issued by Ministry of Finance, Department of Expenditure, Public Procurement Division and any further change / Amendment w.r.t this OM regarding Relaxation of prior turnover and experience for Start-ups | | | | | |
| 3 | OM No. F.9/4/2020-PPD dt e 12th November 2O2O issued by Ministry of Finance, Department of Expenditure, Public Procurement Division and any further change / Amendment w.r.t this OM regarding Bid Security/ Earnest Money Deposit | | | | | |
| 4. | Public Procurement Policy for the Micro and Small Enterprises (MSEs) Order, 2012 and its amendments 09.11.2018 and any further change / Amendment w.r.t this OM regarding Purchase Preference and facilities to MSEs | | | | | |
| 5. | "Public Procurement (Preference to Make in India) Order 2017" (PPP-MII) of Department for Promotion of Industry and Internal Trade, (DPIIT - Public Procurement Section) as revised by No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 and any further change / Amendment w.r.t this OM regarding To encourage 'Make in India' and promote manufacturing and production of goods and services in India | | | | | |
| 6. | OM No. F.9/4/2020-PPD dt 12/11/2020 issued by Ministry of Finance, Department of Expenditure, Public Procurement Division and any further change / Amendment w.r.t this OM regarding Performance Security. | | | | | |
| | COMPETENT AUTHORITY NAME, SIGN & DATE WITH STAMP & SEAL OF ORGANIZATION | | | | | |

Every care has been taken to ensure that the contents of this NIT are accurate and updated/ in compliance with latest rules, in case of any conflict between the provisions stipulated in this document and in GFR 2017 / The prevailing laws by GOI, Competent authority will follow the latest rules/laws/Amendment Rule applicable to NIAB issued by GOI. The decision of competent authority of NIAB will be treated as final in this regard/ Dispute if any. The Tender Inviting Authority (TIA) hereby confirms that while formulating the Tender Document (NIT), GFR & following regulations have been taken in to consideration and same will be applicable. Bidders must read, understand and participate for this NIT if following OM / Rules/Provision are compiled and accepted along with NIT terms. All these OM are available on internet if you search with OM number /description failing which you can send request to NIAB to email you any of this OM (if required). The competent authority reserves the right to ask all relevant the supporting documents from Bidder at any stage of Tender and BID will be rejected in case of failure to submit the required documents within stipulated time for compliance with any of following OM /Provision of GFR / Any applicable latest law / Rule issued by GOI applicable to NIAB.

(This undertaking must be submitted stamped & signed ,on your firms letterhead failing which your Bid Will be rejected)

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FORM NO – 10

PRICE BID FORMAT --- PRICE SCHEDULE 'A' & 'B'

(To be utilised by the bidders for quoting their prices).

- PRICE TO BE QUOTED IN CURRENCY: INR (THE INDIAN RUPEE) ONLY.
- PRICE QUOTATION ON FIRM'S LETTERHEAD GIVING FULL BREAKUP OF COST, TAX DETAILS (ALL ITEMISE BREAKUP IN DETAIL) FOR THE REQUIREMENT MENTIONED IN NIT.
- COST AS PER PRICE QUOTATION SHOULD MATCH WITH BOQ
- Firm cam make their own Quotation in detail as per below format as PRICE SCHEDULE 'A' & 'B' on your letterhead and / or Type / Fill in the following format and upload with their price quotation bid along with technical documents uploading with other required format.

PRICE SCHEDULE 'A'

| Sr. No | Part Code/Catalogue with Description for main item as required for fully functional Without any optional accessories. (for total requirement as per NIT) | Qty | Unit | Each unit Price Currency :- INR (The Indian rupee) | Total Price Currency:- INR (The Indian rupee) |
|-----------|--|-----|------|---|---|
| 1 | NIAB requirement as per specification (Please mentioned all item & cost .) | | | | |
| 2 | ANY OTHER CHARGES LIKE INSURANCE /FREIGHT / TAX /TRANSPORTATION or DISCOUNT ETC (PLEASE MENTIONED ALL CHARGES COST / ALL BREAKUP ITEMWISE TO BE GIVEN) | | | | |

Final Total cost as per BOQ(in INR only)

Final Cost including All up to NIAB must be mentioned giving all breakup cost

COMPETENT AUTHORITY NAME, SIGN & DATE WITH STAMP & SEAL OF ORGANIZATION

Cost of any other optional accessories /spare/consumable Suitable/suggested by vendor which is not mentioned in tender.

| Sr No | Description | Cost per unit Currency:- INR (The Indian rupee) |
|-------|-------------|--|
| | | |

COMPETENT AUTHORITY NAME, SIGN & DATE WITH STAMP & SEAL OF ORGANIZATION

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PRICE SCHEDULE 'B' --- WARRANTY & AMC

The bidder must check TOTAL WARRANTY required as per NIT and Quote accordingly. If nothing is specified about warranty requirement, then standard warranty will be treated as one year.

WARRANTY OFFERRED AS PER NIT = () YEAR / YEARS

EXTRA WARRANTY / (CMC) COST (WITH PARTS /SPARES & SERVICE) AFTER COMPLETION OF WARRANTY MENTIONE ABOVE

| COST OF EXTRA WARRANTY AFTE | R ABOVE MENTIONE | ED YEARS |
|---|-----------------------------|---------------|
| After completion of standard warranty (Extra Warranty/CMC) | Cost in RS (Incl all taxes) | Remark if any |
| Extra warranty for 1 st year After completion of warranty quoted as per NIT. | | |
| Extra warranty for 2 nd year After completion of warranty quoted as per NIT. | | |
| Extra warranty for 3 rd year After completion of warranty quoted as per NIT. | | |

AMC AFTER WARRANTY

AMC Without any parts/spares-- ONLY SERVICE/ MAINTENANCE SUPPORT)

(NO SPARES/PARTS INCLUDED , ONLY SERVICE VISIT & PREVENTIVE MAINTENANCE)

| AMC After completion of Standard Warranty period / As per NIT | Cost in RS (Incl all taxes) | Remark if any |
|--|------------------------------|---------------|
| 1st yr of AMC | | |
| 2 nd yr of AMC | | |
| 3 rd yr of AMC | | |

DECLARATION TO BE SUBMITTED

I /We the undersigned have read and considered all the above points carefully as per Chapter -3 before preparing the bid and noted all the points. The price bid will be prepared considering all the above points. The best possible break up of all the prices unit and total up to delivery and installation of the item in tender up to NIAB premise / location for delivery , standard & Extra Warranty , AMC has been mentioned in price bid. Prices quoted shall remain fixed during the entire period of contract and shall not be subject to variation on any account.

Competent authority sign, date with stamp & seal of organization

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CHAPTER-6

TECHNICAL BID COMPLIANCE FORM SPECIFICATION, OTHER REQUIREMENTS OF THIS NIT

TECHNICAL BID COMPLIANCE FORM

(MANDATORY TO SUBMIT)

| The Director, | |
|---|----|
| National Institute of Animal Biotechnology (NIAB), | |
| Opp. Journalist Colony, Near Gowlidoddy, | |
| Extended Q City Road, Gachibowli, Hyderabad, Telangana, India -32 | |
| Sir, | |
| Please find attached technical compliance statement as required vide this Tender No | dt |

For the item _____

| S. No | Tender Specifications | Unit | Qty. | Bidders specification/ Quality make / Remark | Compliance (Yes/No) | Bidder deviation (If any) | Catalogue / BID Page No on which compliance information is given / details of Supporting technical documents / brochure |
|----------|---|------|------|--|------------------------|----------------------------------|---|
| | Proposed HVAC system for Scienticific Labs in Different blocks of NIAB Lab Building -VRF System | | | | | | |
| | Section -A | | | | | | |
| 1.0 | EQUIPMENT | | | | | | |
| 1.1 | VRF OUTDOOR UNITS | | | | | | |
| | Supply, Installation, Testing and Commissioning of air cooled variable refrigerant flow modular type condensing units, each comprising of multiple scroll compressors all inverter driven, full charge of refrigerant gas (R-410a), lubricating oil and all accessories as per the specifications. The condensing units shall be suitable to work on heating/cooling mode. The minimum Energy Efficiency Ratio shall be as per ASHRAE STANDARDS | | | | | | |

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| | 90.1 -2001 table 6.2.1B. The COP of the system shall be greater than 4 under ARI conditions for 100% load. The Outdoor units shall have protection with suitable MCBs. The condensing units shall be suitable for operation on 415 ± 10% volts, 50Hz, 3 phase AC power supply and the condensing units shall be of following capacities: | | | | |
|-------|---|----|---|--|--|
| 1.1 a | 10-12 HP (12.6TR) nominal higher capacity | No | 1 | | |
| 1.1 b | 14-16 HP (14.8TR) nominal higher capacity | No | 1 | | |
| 1.1 c | NOTES: The above mentioned outdoor units shall be provided with anti corrosion treatment (from factory). The quoted price shall be inclusive of same. | | | | |
| 1.2 | VRF INDOOR UNITS | | | | |
| | Supply,Installation,Testing and Commissioning of variable refrigerant flow modular type indoor units wired/wireless remote suitable for R410a refrigerant comprising of all accessories as per the specifications. The indoor units shall be suitable to work on cooling as well as heating mode.The minimum Energy Efficiency Ratio shall be as per ASHRAE STANDARDS 90.1 -2001 table 6.2.1B. The indoor units shall be suitable for operation on 220 ±6% volts, 50Hz, 1 phase AC power supply. Ductable indoor units shall be suitable to handle extent of ductwork as shown in the design drawings and dehumidified air quantity as mentioned in the heat load summary sheet under "Special Conditions". The indoor unit shall be complete with pre filter & | | | | |

| | Ι . | I | 1 | | ı | T I |
|--------|--------------------------------------|------|------|--|---|-----|
| | remote as per requirement | | | | | |
| | The indoor units shall be of | | | | | |
| | following capacities: | | | | | |
| 1.2 a. | Cassette Type Indoor | | | | | |
| 1.2 a. | Units(with wired/ cordless | | | | | |
| | control) | | | | | |
| | a i. 2.0 TR nominal | No | 12 | | | |
| | capacity | 110 | 12 | | | |
| | 2 0 | | | | | |
| | a ii. 1.5 TR nominal | No | 1 | | | |
| | capacity | | | | | |
| 1.2 b. | VRF Accessories as per | | | | | |
| | requirement | | | | | |
| | b 1. Signal Receiver Set for | Nos | 13 | | | |
| | Cassette AC Unit | 1105 | 13 | | | |
| | | | | | | |
| | b 2. Panel Grill Kit for | Nos | 13 | | | |
| | Cassette AC Unit | | | | | |
| | b 3. VRF IDU Wireless | Nos | 13 | | | |
| | Remote | | | | | |
| | 1. 4. VDE IDII Cariar | NI | 1.1 | | | |
| | b 4. VRF IDU Series Branch Joints | Nos | 11 | | | |
| | | | | | | |
| 1.3 | Supply, Fabrication and | KG | 1500 | | | |
| | Installation of MS frame | | | | | |
| | using channels/angle iron | | | | | |
| | sections as required for | | | | | |
| | mounting of air cooled | | | | | |
| | remote condensers and air | | | | | |
| | cooled condensing units for | | | | | |
| | VRF outdoor units. The | | | | | |
| | frame work shall be | | | | | |
| | applied with red oxide | | | | | |
| | primer and thereafter, two | | | | | |
| | coats of enamel paint of | | | | | |
| | approved colour. The | | | | | |
| | general arrangement | | | | | |
| | drawing for frame work | | | | | |
| | shall be got approved from | | | | | |
| | the Architects/Structural | | | | | |
| | Engineers prior to | | | | | |
| | commencement of | | | | | |
| | fabrication. | | | | | |
| 1.4 | COPPER PIPING | | | | | |
| | (REFRIGERANT | | | | | |
| | PIPING) | | | | | |
| | Supply, Installation, | | | | | |
| | Testing & | | | | | |
| | Commissioning of high | | | | | |
| | pressure copper refrigerant | | | | | |
| | piping suitable for R 410a | | | | | |
| | refrigerant of suitable size | | | | | |
| | as required and duly | | | | | |
| | insulated with 19mm/13mm | | | | | |
| | thick closed cell | | | | | |
| | elastomeric insulation in | | | | | |

| | tubing form inclusive of | | | | | | |
|----------|--|----------|-----|----------|---|-----|--|
| | glass cloth and UV | | | | | | |
| | treatment. External | | | | | | |
| | Refrigerant piping shall be | | | | | | |
| | laid on GI covered cable | | | | | | |
| | trays. Piping inside | | | | | | |
| | occupied spaces shall be | | | | | | |
| | supported using GI ladder | | | | | | |
| | type cable trays. The cost of | | | | | | |
| | GI covered cable tray and | | | | | | |
| | supports to be included in | | | | | | |
| | the quoted price. Entire | | | | | | |
| | refrigerant piping work be | | | | | | |
| | carried out in accordance | | | | | | |
| | with the specifications. | | | | | | |
| | Piping shall be of following sizes: | | | | | | |
| | Pipe Size | | | | | | |
| | Min. Wall | | | | | | |
| | Insulation | | | | | | |
| | Size (O.D.) | | | | | | |
| | Thickness | | | | | | |
| | Thickness | | | | | | |
| 1.4 a. | 41.3 mm 1.43 mm 19 mm | RM | | | | | |
| | | | | | | | |
| 1.4 b. | 34.9 mm 1.21 mm 19 mm | RM | | | | | |
| 1.40. | 34.7 IIIII 1.21 IIIII 17 IIIII | IXIVI | | | | | |
| 1.4 | 20.6 1.00 10 | DM | | | | | |
| 1.4 c. | 28.6 mm 1.00 mm 19 mm | RM | | | | | |
| | | | | | | | |
| 1.4 d. | 22.9 mm 1.00 mm 13 mm | RM | | | | | |
| | | | | | | | |
| 1.4 e. | 19.1 mm 1.00 mm 13 mm | RM | | | | | |
| | | | 390 | | | | |
| 1.4 f. | 15.9 mm 1.00 mm 13 mm | RM | | | | | |
| 1.41. | 13.9 mm 1.00 mm 13 mm | IXIVI | | | | | |
| 1 . | 10.7 | D1.5 | _ | | | | |
| 1.4 g. | 12.7 mm 0.80 mm 13 mm | RM | | | | | |
| | | | | | | | |
| 1.4 h. | 9.5 mm 0.80 mm 13 mm | RM | | | | | |
| | | | | | | | |
| 1.4 i. | 6.4 mm 0.80 mm 13 mm | RM | 1 | | | | |
| | | | | | | | |
| 1.5 | FITTINGS | | | | | | |
| 1.5 | FILIMOS | | | | | | |
| | | | | | | | |
| | Supply, Installation, | | | | | | |
| | Testing and Commissioning | | | | | | |
| | of following imported | | | | | | |
| | fittings to be provided in | | | | | | |
| | refrigerant pipe line. Material of construction for | | | | | | |
| | fittings shall be similar to | | | | | | |
| | refrigerant piping. | | | | | | |
| <u> </u> | Tomigoram pipmg. | <u> </u> | I | <u> </u> | l | I . | |

| 1.5 a. | Y- joints for refrigerant piping (pair). | No | 26 | | |
|--------|---|----|-----|--|--|
| | Drain Piping (CPVC) | | | | |
| 1.6 | Supply & installation, testing and commissioning of Rigid heavy class CPVC piping complete with fittings, supports as per specifications and duly insulated with 6 mm thick closed cell crosslinked polyethylene (XLPE) tubular insulation. | | | | |
| | a. 50mm dia | RM | | | |
| | b. 40mm dia | RM | _ | | |
| | c. 32mm dia | RM | 340 | | |
| | d. 25mm dia | RM | | | |
| 1.7 | CENTRALIZED REMOTE CONTROLLER (TOUCH SCREEN TYPE) | | | | |
| | Central remote Controller (Touch Screen Type): Supply, installation, testing & commissioning of the Graphic central remote Controller. It must act as an advanced air conditioning management system to facilitate complete control of VRF air conditioning equipment, It should be user friendly through its touch screen, icon display and color LCD display. Integratable upto 64 remote controller groups and BMS compatible with ethernet/Wi-Fi communication protocol for remote monitoring. In addition to basic controls such as settings for on/stop,the operation mode & temperature,the air quantity and auto louver can be set. If a problem occurs, an alarm code immediately shows the | No | 2 | | |

| 2.0 | details of the problem.An external input terminal is provided as standard.External signals enable the following function: central operation/stop,demand control,emergency stop,central operation output,& central alarm output. INSULATION | | | | |
|-----|---|-----|-----|--|--|
| | | | | | |
| 2.1 | Supply and installation of aluminium foil faced closed cell elastomeric nitrile rubber thermal insulation exhibiting class"O" properties on supply and return air ducts with sealing of longitugnal and transverse joints with SR-505 adhesive as per the approved specifications. Quoted price shall be inclusive of adhesive, tapes as per specification. | SaM | 240 | | |
| | a. 19mm thick | SqM | 240 | | |
| | b. 13mm thick | SqM | 340 | | |
| 3.0 | ELECTRICAL INSTALLATION | | | | |
| 3.1 | POWER CABLING | | | | |
| | Supply, laying, affecting connections and Testing of the following sizes of 1.1 KV armoured PVC insulated aluminium/ copper conductor cables. Cables shall be inclusive of all clamps,saddles,screws,cable identification tags, cable terminal joints including terminal lugs, insulating tapes, affecting terminal connections to the equipment as per the specifications and as required. Quoted price shall be inclusive of GI perforated cable tray, support. | | | | |

| | | 1 | | 1 | · | 1 | |
|-----|--|------|-----|---|---|---|--|
| | a. 4C x 95 Sqmm | RM | 185 | | | | |
| | Aluminium Armoured cable | | | | | | |
| | (XLPE) | RM | 250 | | | | |
| | b. 4C x 4 Sqmm copper flexible cable | KIVI | 250 | | | | |
| | c. 3C x 1.5 Sqmm | RM | 340 | | | | |
| | copper flexible cable | | | | | | |
| 3.2 | CABLE TRAY | | | | | | |
| | a. (W)150 MM x | RM | 185 | | | | |
| | (H)25/50/100 MM x (T) | | | | | | |
| | 12MM Hot-dip Galvanized | | | | | | |
| 2.2 | Metal GI Cable Tray | | | | | | |
| 3.3 | CONTROL WIRING | | | | | | |
| | Supply, laying, affecting | | | | | | |
| | connections and Testing | | | | | | |
| | of the following sizes of | | | | | | |
| | control cum transmission | | | | | | |
| | wiring to be laid in MS | | | | | | |
| | conduits between indoor | | | | | | |
| | units and outdoor units. | | | | | | |
| | 2C x1.5 Sqmm copper | RM | 390 | | | | |
| | wiring | | | | | | |
| 3.4 | EARTHING | | | | | | |
| | | | | | | | |
| | Providing & fixing in | | | | | | |
| | position the following bare | | | | | | |
| | GI Strip/ Cu wire including providing all fixing | | | | | | |
| | accessories & effecting | | | | | | |
| | proper connections. | | | | | | |
| | a. 25mm x 6mm Strip | RM | 230 | | | | |
| | w 2 0 0 | | | | | | |
| | b. 25mm x 3mm Strip | RM | 260 | | | | |
| | r | | | | | | |
| | c. 8 SWG Cu Wire | RM | 320 | | | | |
| | | | | | | | |
| | d. 12 SWG Cu Wire | RM | 340 | | | | |
| | | | | | | | |
| 3.5 | Electrical Material | | | | | | |
| | | | | | | | |
| | Supply & fixing, testing & | | | | | | |
| | commissioning of outdoor | | | | | | |
| | type IP-65 floor mounted | | | | | | |
| | electrical distribution panel | | | | | | |
| | made of 2mm thick steel | | | | | | |
| | sheet duly power coated | | | | | | |
| | complete with voltmeter | | | | | | |
| | ammeters, indicating lamps, | | | | | | |
| | selector switches, single | | | | | | |
| | phase preventers, CTs, | | | | | | |

| Contractors, or remote control panel operation & 3 Phase 4 wire digital LCD type energy meter complete as per specification and drawing et as regul comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 kA.415 volts. 50Hz. with door interlocking with all connected accessories b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. c. 1 no. 3 Phase Digital Volt meter with selector switch. d. 3 nos RYB Led indication lamps. c. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h. All cables ferrole SECTION: B - ANNUAL | | | | | 1 | 1 | 1 | |
|--|-------|-------------------------------|-----|----|---|---|---|--|
| Phase 4 wire digital LCD type energy meter complete as per specification and drawing etc as reqd. comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 KA,415 volts, 50Hz, with door interlocking with all connected accessories — b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Plug Top No 13 e. 16A 3Pin Plug Top No 13 F. 3 Modular Surface Cover Plate g. 3 Modular Surface g. 3 Modular Surface Box h. All cables ferrole SECTION: B - | | contractors, for remote | | | | | | |
| type energy meter complete as per specification and drawing etc as reqd. comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No a. 100A 4P MCB 36 KA.415 volts , 50Hz, with door interlocking with all connected accessories – . b. 1 no. 0-100 Amp. 3 Phase No Digital Anmeter with selector switch. c. 1 no. 3 Phase Digital Volt meter with selector switch 0.500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h. All cables ferrole SECTION: B - | | | | | | | | |
| as per specification and drawing etc as reqd. comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 | | | | | | | | |
| drawing etc as reed. comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 kA-415 volts, 50Hz, with door interlocking with all connected accessories — b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No b. 20A 1P MCB 25kA No d. 6/16A One Way Switch No 13 c. 6/16A 3Pin Plug Top No 13 f. 3 Modular Surface Box h. All cables ferrole SECTION: B- | | | | | | | | |
| comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 kA 415 volts, 50Hz, with door interlocking with all connected accessories b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A IP MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h. All cables ferrole SECTION: B- | | as per specification and | | | | | | |
| the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panet a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 No 2 No 100 | | drawing etc as reqd. | | | | | | |
| the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panet a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 No 2 No 100 | | comprising of the following, | | | | | | |
| as per the detailed specification enclosed. VRF AC Main DB Panel a. 6Way SPN DB No 4 3.5 A INCOMING a. 100A 4P MCB 36 kA,415 volts, 50Hz, with door interlocking with all connected accessories - b. 1 no 0-100 Amp. 3 Phase Digital Ammeter with selector switch. c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RVB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 c. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h. All cables ferrole SECTION: B - | | | | | | | | |
| Specification enclosed, VRF AC Main DB Panel a. 6Way SPN DB No 4 | | | | | | | | |
| AC Main DB Panel | | | | | | | | |
| 3.5 A INCOMING | | | | | | | | |
| 3.5 A INCOMING a. 100A 4P MCB 36 kA,415 volts, 50Hz, with door interlocking with all connected accessories — b. 1 no. 0-100 Amp, 3 Phase Digital Ammeter with selector switch 0-500volts. c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Plug Top No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box No 13 b. All cables ferrole SECTION: B - | | | No | 1 | | | | |
| a. 100A 4P MCB 36 | | a. Oway SI N DB | 110 | 1 | | | | |
| a. 100A 4P MCB 36 | | | | | | | | |
| RA,415 volts , 50Hz, with door interlocking with all connected accessories | 3.5 A | INCOMING | | | | | | |
| RA,415 volts , 50Hz, with door interlocking with all connected accessories | | | | | | | | |
| RA,415 volts , 50Hz, with door interlocking with all connected accessories | | 2 100 A 4D MCD 26 | No | 2 | | | | |
| door interlocking with all connected accessories b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. C. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 | | | 110 | 2 | | | | |
| Connected accessories - | | | | | | | | |
| D. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. C. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 | | _ | | | | | | |
| Digital Ammeter with | | | | 1 | | | | |
| Selector switch. C. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. C. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. C. 3 nos. RYB Led indication lamps. C. 1 nos. Energy meter. No | | | No | 2 | | | | |
| C. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. No 2 | | | | | | | | |
| meter with selector switch 0-500volts. d. 3 nos. RYB Led indication lamps. e. 1 nos. Energy meter. No 2 | | | | | | | | |
| 0-500volts. | | c. 1 no. 3 Phase Digital Volt | No | 2 | | | | |
| d. 3 nos. RYB Led indication lamps. Post of indication lamps. | | meter with selector switch | | | | | | |
| d. 3 nos. RYB Led indication lamps. Post of indication lamps. | | 0-500volts. | | | | | | |
| indication lamps. e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | | No | 2 | | | | |
| e. 1 nos. Energy meter. No 2 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface No 13 g. 3 Modular Surface No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 e. 16A 3Pin Plug Top No 13 s. 10 f. 3 Modular Surface No 13 g. 3 Modular Surface No 13 g. 3 Modular Surface No 13 s. 20 s. 3 Modular Surface No 13 s. 3 Modular Surface No 13 s. 4 Modular Surface No 15 s. 5 Modular Surface No 15 s. 5 Modular Surface No 15 s. 6 Modular Surface No 15 s. 7 Modular Surface No 15 s. 8 Modular Surface No 15 s. 9 Modular Surface | | | 1,0 | _ | | | | |
| 3.5 B OUTGOING a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface No 13 g. 3 Modular Surface No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 c. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 g. 3 Modular Surface No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 c. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 g. 3 Modular Surface No 13 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 c. 16A 3Pin Plug Top No 13 c. 16A 3Pin Plug Top No 13 d. 6/16A 3Pin Plug Top No 13 E. 16A 3Pin Plug Top No 13 E. 20A 1P MCB 25kA No 1 | | - | | | | | | |
| a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | | e. 1 nos. Energy meter. | No | 2 | | | | |
| a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | | | | | | | | |
| a. 40A 3P MCB 25kA No 4 b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | 3.5 B | OUTGOING | | | | | | |
| b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 Cover Plate g. 3 Modular Surface No 13 h. All cables ferrole SECTION: B - | 3.0 B | oergon (g | | | | | | |
| b. 20A 1P MCB 25kA No 13 c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 Cover Plate g. 3 Modular Surface No 13 h. All cables ferrole SECTION: B - | | | | | | | | |
| c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | | a. 40A 3P MCB 25kA | No | 4 | | | | |
| c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | | | | | | | | |
| c. 6/16A One Way Switch No 13 d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface No 13 Cover Plate g. 3 Modular Surface No 13 Box h . All cables ferrole SECTION: B - | | b 20A 1P MCB 25kA | No | 13 | | | | |
| d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | 0. 2011 11 WEB 25KH | 110 | 13 | | | | |
| d. 6/16A 3Pin Socket No 13 e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | | | | | | | |
| e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | c. 6/16A One Way Switch | No | 13 | | | | |
| e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | | | | | | | |
| e. 16A 3Pin Plug Top No 13 f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | d 6/16A 3Pin Socket | No | 13 | | | | |
| f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | G. O/ TOA 31 III BOCKET | 110 | 13 | | | | |
| f. 3 Modular Surface Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | | | | | | | |
| Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | e. 16A 3Pin Plug Top | No | 13 | | | | |
| Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | | | | | | | |
| Cover Plate g. 3 Modular Surface Box h . All cables ferrole SECTION: B - | | f 2 Modular Surface | No | 12 | | | | |
| g. 3 Modular Surface No 13 h . All cables ferrole SECTION: B- | | | 140 | 13 | | | | |
| Box h . All cables ferrole SECTION: B- | | Cover Plate | | | | | | |
| Box h . All cables ferrole SECTION: B- | | g. 3 Modular Surface | No | 13 | | | | |
| h . All cables ferrole SECTION : B - | | | | | | | | |
| SECTION: B- | - | | | - | | | | |
| | | n . All cables ferrole | | | | | | |
| | | | | | | | | |
| | | SECTION : B - | | | | | | |
| AINIUAL | | | | | | | | |
| | | MINUAL | 1 | | | | | |

| | MAINTENANCE CONTRACT | | | | |
|---|---|-------|----|--|--|
| 4 | ANNUAL COMPREHENSIVE | | | | |
| | MAINTENANCE OF | | | | |
| | THE INSTALLED | | | | |
| | VRF SYSTEM FOR 5 | | | | |
| | YEARS | | | | |
| | Annual | | | | |
| | Comprehensive | | | | |
| | Maintenance Contract | | | | |
| | for period of 5 years | | | | |
| | after completion of | | | | |
| | 1(one) year of DLP (Defect Liability | | | | |
| | period). The contract | | | | |
| | shall include all spares | | | | |
| | ,cosumables & | | | | |
| | replacement of | | | | |
| | defective/damaged | | | | |
| | parts as required to | | | | |
| | run the completely | | | | |
| | installed VRF AC | | | | |
| | system including | | | | |
| | AHU's etc. | | | | |
| a | For 1st year (0-12 | per | 12 | | |
| | Months) | month | | | |
| b | For 2nd year (13-24 | per | 12 | | |
| | Months) | month | | | |
| c | For 3rd year(25-36 | per | 12 | | |
| | Months) | month | | | |
| d | For 4th year(37-48 | per | 12 | | |
| | Months) | month | | | |
| e | For 5th year(49-60 | per | 12 | | |
| | Months) | month | | | |

COMPETENT AUTHORITY NAME , SIGN & DATE WITH STAMP & SEAL OF ORGANIZATION

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***** Please note following very important points *****

An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications must be provided. If any deviation is proposed by the Bidder, the same must be clearly indicated and enclosed as deviation as per given format. Compliance/Deviation statement comparing the specifications of the quoted model to the required specifications should also give the page number(s) of the technical literature where the relevant specification is mentioned. Bids must have supporting documents (technical literature or copies of relevant pages from the service manual or factory test data) for all the points of specification, failing this will result in rejection of bid. The technical committee can ask for demo in NIAB (if required at the time of technical evaluation). If bid participating firm fails to arrange for demo, it will result in rejection of the bid. In case of demo is to be arranged at different place other than NIAB, all the incidental expenses of this arrangement has to borne by the bid participating firm. No Oueries will be entertained for waive off for demo as it is in utmost interest of the organisation to make correct procurement as per end user requirement and use public fund in correct manner with avoid of risk of purchase of substandard material. As specification is essence of this purchase no comprise will be made in ascertaining the right quality of product as per requirement for NIAB. Your Bid will be summarily rejected TECHNICAL BID COMPLIANCE FORM along with supporting technical if this documents are not submitted.

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TECHNICAL SPECIFICATION

Proposed HVAC system for Scienticific Labs in Different blocks of **NIAB Lab Building -VRF System**

Qty: As per Specifications

1.1 c

1.2

| BILL OF QUANTITY Proposed HVAC system for Scienticific Labs in Different blocks of NIAB Lab Building -VRF System | | | | | | | |
|---|--|------|------|--|--|--|--|
| | Section -A | | | | | | |
| ITEM | DESCRIPTION | UNIT | QTY. | | | | |
| 1.0 | EQUIPMENT | | | | | | |
| 1.1 | VRF OUTDOOR UNITS | | | | | | |
| | Supply, Installation, Testing and Commissioning of air cooled variable refrigerant flow modular type condensing units, each comprising of multiple scroll compressors all inverter driven, full charge of refrigerant gas (R-410a), lubricating oil and all accessories as per the specifications. The condensing units shall be suitable to work on heating/cooling mode. The minimum Energy Efficiency Ratio shall be as per ASHRAE STANDARDS 90.1 -2001 table 6.2.1B. The COP of the system shall be greater than 4 under ARI conditions for 100% load. The Outdoor units shall have protection with suitable MCBs. The condensing units shall be suitable for operation on 415 ± 10% volts, 50Hz, 3 phase AC power supply and the condensing units shall be of following capacities: | | | | | | |
| 1.1 a | 10-12 HP (12.6TR) nominal higher capacity | No | 1 | | | | |
| 1.1 b | 14-16 HP (14.8TR) nominal higher capacity | No | 1 | | | | |

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NOTES: The above mentioned outdoor units shall

be provided with anti corrosion treatment (from factory). The quoted price shall be inclusive of same.

VRF INDOOR UNITS

| 1.2 a. | STANDARDS 90.1 -2001 table 6.2.1B. The indoor units shall be suitable for operation on 220 ±6% volts, 50Hz, 1 phase AC power supply. Ductable indoor units shall be suitable to handle extent of ductwork as shown in the design drawings and dehumidified air quantity as mentioned in the heat load summary sheet under "Special Conditions". The indoor unit shall be complete with pre filter & remote as per requirement The indoor units shall be of following capacities: Cassette Type Indoor Units(with wired/cordless | | |
|--------|--|-----|------|
| | a i. 2.0 TR nominal capacity | No | 12 |
| | a ii. 1.5 TR nominal capacity | No | 1 |
| 1.2 b. | VRF Accessories as per requirement | | |
| | b 1. Signal Receiver Set for Cassette AC Unit | Nos | 13 |
| | b 2. Panel Grill Kit for Cassette AC Unit | Nos | 13 |
| | b 3. VRF IDU Wireless Remote | Nos | 13 |
| | b 4. VRF IDU Series Branch Joints | Nos | 11 |
| 1.3 | Supply, Fabrication and Installation of MS frame using channels/angle iron sections as required for mounting of air cooled remote condensers and air cooled condensing units for VRF outdoor units. The frame work shall be applied with red oxide primer and thereafter, two coats of enamel paint of approved colour. The general arrangement drawing for frame work shall be got approved from the Architects/Structural Engineers prior to commencement of fabrication. | KG | 1500 |
| 1.4 | COPPER PIPING (REFRIGERANT PIPING) | | |

| | high pressure 410a refriger insulated wit elastomeric i cloth and UV shall be laid occupied sp type cable tra and support Entire refrig | e copper refricant of suitable h 19mm/13mm/13mm nsulation in the treatment. On GI covered saces shall be ass. The cost is to be inclusted by the special property of the special property with the special special property of the special property of | ting & Commission gerant piping suitable size as required and must thick closed cell tubing form inclusive External Refrigerant d cable trays. Piping supported using GI to GI covered cable ded in the quoted prework be carried out secifications. Piping should be considered to the construction of the commission of the | e for R d duly of glass piping g inside ladder tray ice. in | |
|--------|---|--|---|---|-----|
| | Pipe Size Insulation | | Min. Wall | | |
| | Size (O.D.) Thickness | | Thickness | | |
| 1.4 a. | 41.3 mm | 1.43 mm | 19 mm | RM | 390 |
| 1.4 b. | 34.9 mm | 1.21 mm | 19 mm | RM | |
| 1.4 c. | 28.6 mm | 1.00 mm | 19 mm | RM | |
| 1.4 d. | 22.9 mm | 1.00 mm | 13 mm | RM | |
| 1.4 e. | 19.1 mm | 1.00 mm | 13 mm | RM | |
| 1.4 f. | 15.9 mm | 1.00 mm | 13 mm | RM | |
| 1.4 g. | 12.7 mm | 0.80 mm | 13 mm | RM | |
| 1.4 h. | 9.5 mm | 0.80 mm | 13 mm | RM | |
| 1.4 i. | 6.4 mm | 0.80 mm | 13 mm | RM | |
| 1.5 | FITTINGS | | | | |
| | following im | ported fitting sterial of cons | ting and Commissionits to be provided in restruction for fittings slag. | frigerant | |

| 1.5 a. | Y- joints for refrigerant piping (pair). | No | 26 |
|--------|---|-----|-----|
| | Drain Piping (CPVC) | | |
| 1.6 | Supply & installation, testing and commissioning of Rigid heavy class CPVC piping complete with fittings, supports as per specifications and duly insulated with 6 mm thick closed cell crosslinked polyethylene (XLPE) tubular insulation. | | |
| | a. 50mm dia | RM | 340 |
| | b. 40mm dia | RM | |
| | c. 32mm dia | RM | |
| | d. 25mm dia | RM | |
| 1.7 | CENTRALIZED REMOTE CONTROLLER (TOUCH SCREEN TYPE) | | |
| | Central remote Controller (Touch Screen Type): Supply, installation, testing & commissioning of the Graphic central remote Controller. It must act as an advanced air conditioning management system to facilitate complete control of VRF air conditioning equipment, It should be user friendly through its touch screen, icon display and color LCD display. Integratable upto 64 remote controller groups and BMS compatible with ethernet/Wi-Fi communication protocol for remote monitoring. In addition to basic controls such as settings for on/stop,the operation mode & temperature,the air quantity and auto louver can be set.If a problem occurs, an alarm code immediately shows the details of the problem.An external input terminal is provided as standard.External signals enable the following function: central operation/stop,demand control,emergency stop,central operation output,& central alarm output. | No | 2 |
| 2.0 | INSULATION | | |
| 2.1 | Supply and installation of aluminium foil faced closed cell elastomeric nitrile rubber thermal insulation exhibiting class"O" properties on supply and return air ducts with sealing of longitugnal and transverse joints with SR-505 adhesive as per the approved specifications. Quoted price shall be inclusive of adhesive, tapes as per specification. | | |
| | a. 19mm thick | SqM | 240 |
| | b. 13mm thick | SqM | 340 |
| 3.0 | ELECTRICAL INSTALLATION | | |
| 3.1 | POWER CABLING | | |

| | Supply, laying, affecting connections and Testing of the following sizes of 1.1 KV armoured PVC insulated | | |
|-----|---|----|-----|
| | aluminium/ copper conductor cables. Cables shall be inclusive of all clamps,saddles,screws,cable identification tags, cable terminal joints including terminal lugs, insulating tapes, affecting terminal connections to the equipment as per the specifications and as required. Quoted price shall be | | |
| | inclusive of GI perforated cable tray, support. | | |
| | a. 4C x 95 Sqmm Aluminium Armoured cable (XLPE) | RM | 185 |
| | b. 4C x 4 Sqmm copper flexible cable | RM | 250 |
| | c. 3C x 1.5 Sqmm copper flexible cable | RM | 340 |
| 3.2 | CABLE TRAY | | |
| | a. (W)150 MM x (H)25/50/100 MM x (T) 12MM Hot- dip Galvanized Metal GI Cable Tray | RM | 185 |
| 3.3 | CONTROL WIRING | | |
| | Supply, laying, affecting connections and Testing of the following sizes of control cum transmission wiring to be laid in MS conduits between indoor units and outdoor units. | | |
| | 2C x1.5 Sqmm copper wiring | RM | 390 |
| 3.4 | Providing & fixing in position the following bare GI Strip/ Cu wire including providing all fixing accessories & effecting proper connections. | | |
| | a. 25mm x 6mm Strip | RM | 230 |
| | b. 25mm x 3mm Strip | RM | 260 |
| | c. 8 SWG Cu Wire | RM | 320 |
| | d. 12 SWG Cu Wire | RM | 340 |
| 3.5 | Electrical Material | | |

| | Supply & fixing, testing & commissioning of outdoor type IP-65 floor mounted electrical distribution panel made of 2mm thick steel sheet duly power coated complete with voltmeter ammeters, indicating lamps, selector switches, single phase preventers, CTs, contractors, for remote control panel operation & 3 Phase 4 wire digital LCD type energy meter complete as per specification and drawing etc as reqd. comprising of the following, the board shall be fabricated as per the detailed specification enclosed. VRF AC Main DB Panel | | |
|-------|---|----|----|
| | a. 6Way SPN DB | No | 4 |
| 3.5 A | INCOMING | | |
| | a. 100A 4P MCB 36 kA,415 volts, 50Hz, with door interlocking with all connected accessories – . | No | 2 |
| | b. 1 no. 0-100 Amp. 3 Phase Digital Ammeter with selector switch. | No | 2 |
| | c. 1 no. 3 Phase Digital Volt meter with selector switch 0-500volts. | No | 2 |
| | d. 3 nos. RYB Led indication lamps. | No | 2 |
| | e. 1 nos. Energy meter. | No | 2 |
| 3.5 B | OUTGOING | | |
| | a. 40A 3P MCB 25kA | No | 4 |
| | b. 20A 1P MCB 25kA | No | 13 |
| | c. 6/16A One Way Switch | No | 13 |
| | d. 6/16A 3Pin Socket | No | 13 |
| | e. 16A 3Pin Plug Top | No | 13 |
| | f. 3 Modular Surface Cover Plate | No | 13 |
| | g. 3 Modular Surface Box | No | 13 |
| | h . All cables ferrole | | |
| | SECTION : B - ANNUAL MAINTENANCE CONTRACT | | |
| 4 | ANNUAL COMPREHENSIVE MAINTENANCE OF THE INSTALLED VRF SYSTEM FOR 5 YEARS | | |

| | Annual Comprehensive Maintenance Contract for period of 5 years after completion of 1(one) year of DLP (Defect Liability period). The contract shall include all spares ,cosumables & replacement of defective/damaged parts as required to run the completely installed VRF AC system including AHU's etc. | | |
|---|---|--------------|----|
| a | For 1st year (0-12 Months) | per month | 12 |
| b | For 2nd year (13-24 Months) | per month | 12 |
| С | For 3rd year(25-36 Months) | per month | 12 |
| d | For 4th year(37-48 Months) | per month | 12 |
| е | For 5th year(49-60 Months) | per month | 12 |

Important point

In addition to Form -9, Firm must submit Price Bid on their letterhead & upload in Cover 1 - Part - 1 (Price Bid = Detail Quotation on firm's Letterhead giving full cost, tax details (all in detail) for the requirement mentioned in NIT in their own format but must give all details including tax etc all cost up to NIAB.

BOQ must be submitted in Cover -1 - Part- 3, after carefully reading all the points mentioned therein in & final price as per your quotation.

The BOQ final cost must be matching with your Quotation/Price Bid and Price schedule A as per Form -9 submitted in Cover 1 - Part - 1.

For any doubt on BOQ please send E mail **santosh@niab.org.in**, **purchase1@niab.org.in**

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| OTHER IMPORTANT REQUIREMENTS WITH SPECIFICATION | | |
|---|---|--|
| I. | PLEASE SUBMIT ALL THE CERTIFICATE/UNDERTAKING/ FORMS AS PER NIT FAILING WHICH YOUR BID CAN BE REJECTED AS PER COMPETENT AUTHORITY DECISION | |
| II. | BID PRICE MUST BE IN CURRENCY: - INR (THE INDIAN RUPEE) ONLY | |
| III. | Please Quote your price in INR (THE INDIAN RUPEE) after considering following information about GST/Custom Duty Exemption. Necessary certificate will be provided by NIAB in this regard. | |
| | National Institute of Animal Biotechnology is registered with the Department of Scientific and Industrial Research (DSIR) Vide Reg. No. TUN/RG-CDE (1175)/2020 dt 28-08-2020 valid up to 31.08.2025 for purposes of availing Customs Duty , GST exemptions in terms of Notfn. No. 51/96- Customs dt. 23 .07.1996, Notfn. No. 28/2003- Customs dt. 01.03 .2003, Notfn. No. 43/2017- Customs dt. 30.06.2017 & Notfu. No. 47/2017- Integrated Tax (Rate) dt. 14.11.2017, Notfn. No. 10/2018-Integrated Tax (Rate) dt. 25.01.2018 and Notfn. No. 45/2017- Central Tax (Rate) dt. 14.11.2017, Notfu. No. 45/2017- Union Territory Tax (Rate) dt. 14.11.2017 & Notfn. No. 9/2018- Central Tax (Rate) dt. 25 .01.2018, Notfn. No. 9/2018- Union Territory Tax (Rate) dt. 25.01.2018, as amended from time to time for research purposes only. | |
| | Bidders Must CHECK & Quote CORRECT Applicable GST & Custom bonded warehouse price (if any) Duty Free/Concessional Duty as applicable as per rules/Notification as amended from time to time. | |
| IV. | Only competent firm who can supply the material as per required specification should submit the Bid with supporting technical documents as the specification is essence of this procurement. Technical Bid Compliance Form and information/ important points mentioned therein as per tender document along with supporting documents, product brochure / technical literature/Catalogue / product website details (if any) must be submitted along with Bid. If this is not submitted as per format mentioned in this tender document, the bid will be rejected with the reason (Failing compliance of Specification/Tender important requirements) and no correspondence will be made to firm in this regard & No queries will be entertained in this regard from firm. Simply mentioning complied/yes without supporting documents will result in rejection of Bid and blacklisting of firm from future participation of NIAB tenders. | |
| V. | All the items requited to make required instrument functional must be quoted as main offer. No hidden cost should be mentioned as optional accessories. Optional accessories (if any) which is not related with making instrument functional, should be quoted separately. That will not be part of financial evaluation. | |
| VI. | Local Service Support in Hyderabad (if any) with contact details & details of installations completed in Hyderabad of the similar model should be submitted along with your bid. Prompt after sales service should be available. | |
| VII. | Extended Comprehensive Warranty (with spares Service) for 3 years and AMC (without spares only service support) for 2 years should be quoted separately by the firm as per format given of price Bid as per Price Schedule B mentioned in this NIT. This is over & above of standard warranty/ AMC offered by the firm/ as per NIT specification. | |
| VIII. | If any brand name is mentioned in the specification it means that brand or substantially equivalent brand can be quoted/ will be considered. | |
| IX. | Few of the conditions/ forms in this document may not be applicable for Service/Work /Non-Scientific items requirement as per this tender. Write "NA" in any of the form wherever it is suitable/applicable as per bid submitting firm considering the requirement in tender. | |

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(How to find NIAB tenders in CPPP website.)

You can find our tenders on CPPP website under following link and selection mentioned below

Go to website https://eprocure.gov.in/eprocure/app then click Tenders by Organisation and then click Organisation Name --- **Department of Biotechnology**-- you will find NIAB Tenders.

Also Tender link is available on NIAB website.

TENDER PROCESSSING CHARGES Rs 1500 /- is mandatory for all firms and <u>not exempted</u> to any firm. This Tender document is free of cost and no tender fees is applicable. EMD exemption is as rules mentioned herein. Please read tender document carefully to avoid rejection of bid. No queries will be entertained for rejection of Bid due to non-following of terms and conditions of NIT.

PLEASE CHECK REQUIRED FORMS AS PER CHAPTER- 5
AND KEEP IT READY ON SCAN PDF COPY ON YOUR
LETTERHEAD /STAMP SEAL OF ORGANISATION TO
UPLOAD ON CPPP.

For any queries you can send E mail to us santosh@niab.org.in, purchase1@niab.org.in

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