



**CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY,**  
(A Scientific Society, Ministry of Electronics and Information  
Technology, Govt. of India)  
SHORANUR ROAD, M.G. KAVU, P.O. ATHANI, THRISSUR 680 581,  
Kerala, India  
Tel No.: 0487 – 2201156-59; Fax 0487 – 2201347  
Email : [cmett@cmet.gov.in](mailto:cmett@cmet.gov.in) URL : [www.cmet.gov.in](http://www.cmet.gov.in)

**TENDER NOTICE**

Sealed Tenders (Two bid system ) are invited from either the Principal/OEM itself, or by Agent/Dealer on behalf of the Principal/OEM, for the supply, installation, commissioning and demonstration of stores mentioned below, as per the tender document attached herewith

S.No	Brief Description of Stores	Tender No.	Qty	EMD Amount
1	Glove Box with Gas Purification System	TR/PUR/SP/ 060/2019	1 No	Rs. 56,000/-
<b>Last Date for Receipt of Tender</b>		<b>06.12.2019 (upto 15.00 hrs)</b>		
<b>Date of Opening of Technical Bids of Tender</b>		<b>06.12 .2019 (at 15.30 hrs)</b>		

Tender shall be prepared in the prescribed format

It is requested that the quotations along with literature, if any, may please be sent so as to reach The Administrative Officer, C-MET at the address given above, on or before the due date and time. The envelope should be superscripted with the **enquiry reference number and name of the item and date of tender opening**. Please submit your quotation **on or before 15.00 hrs on the due date**, in accordance with the terms and conditions

**TENDERS NOT IN THE PRESCRIBED FORMAT AS PER ANNEXURE II(A) /II(B) WILL BE TREATED AS NON- RESPONSIVE & WILL BE REJECTED (Ref. Sl. No. 2 of Terms & conditions , Annexure –III)**

**All tenderers shall submit a checklist as in the attached format and submit alongwith the technical bid**

Our GST No. is 32AAAAC0801E1ZS

C-MET is eligible for concessional GST/IGST rates @ 5% for Research Institutions as per Notification No. 45/2017-Central Tax (Rate) & 47/2017- Integrated Tax (Rate) dated 14.11.2017

Sd/-  
Administrative Officer

# Tender Document

**For Competitive Bidding for the Supply, Installation and Demonstration of Following Stores/Goods/Equipment**

<b>Item No.</b>	<b>Tender Reference No</b>	<b>Brief Description of Stores/Goods/ Equipment</b>
01	TR/PUR/SP/60/2019	Glove Box with Gas Purification System



**Centre for Materials for Electronics Technology (C-MET)**  
**(A Scientific Society under Ministry of Electronics and Information Technology,**  
**Govt. of India)**

**Shoranur Road, M.G. Kavu, Athani Post, Thrissur– 680 581**  
**Kerala, India.**

Tel No.+91-487-2201156/2201157/2201158/2201159

Fax: +91-487-2201347

Website – [www.cmet.gov.in](http://www.cmet.gov.in)

# TENDER DOCUMENT

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## **SECTION-I: DEFINITIONS**



## SECTION-I: DEFINITIONS

In this document, the following terms shall be interpreted as indicated:

- i. C-MET means any one or more of the three laboratories of Centre for Materials for Electronic Technology at Pune, Hyderabad or Thrissur.
- ii. "The Tenderer or the Bidder" means the individual or firm submitting a tender or bid for purchase of the Goods and Services by C-MET against a tender notice.
- iii. "The Purchaser(s) or Client(s)" means the organization purchasing the Goods / services (i.e., Centre for Materials for Electronics Technology)
- iv. "The Supplier" or "The Vendor" means the individual or firm supplying the Goods and Services under this Contract.
- v. "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form Signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- vi. "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- vii. "The Goods" means all the hardware / equipment, machinery and /or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- viii. "Services" means services ancillary to the supply of the Goods, such as transportation and insurance and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- ix. "GTC" means the General Terms and Conditions of Contract contained in this section.
- x. "STC" means the Special Terms and Conditions of Contract.
- xi. "The Client's Country" is the country named in STC.
- xii. "Day" means a working day.

**SECTION-II: INVITATION FOR BIDS & INSTRUCTION TO BIDDERS (IBIB)**

## SECTION-II: INVITATION FOR BIDS & INSTRUCTION TO BIDDERS (IBIB)

1. Centre for Materials for Electronics Technology, Thrissur, invites sealed tenders from eligible Indian/Foreign Original Equipment Manufacturers or their authorized distributors, dealers or Indian Agent for supply, installation and commissioning of stores/goods/equipments listed in Section V of this document.
2. Interested eligible Bidders may either obtain the Tender Document on submission of a written application either from

**Administrative Officer**  
**Centre for Materials for Electronics Technology**  
**Shoranur Road, M. G. Kavu, Athani (PO)**  
**Thrissur - 680 581, Kerala, India.**  
**(OR)**

Download the Tender Document from our website <http://cmet.gov.in>

3. A bidder may bid for any one or more of the items/stores/goods/equipments mentioned in Section V.
4. **Two -bid system** will be adopted for this tender;

In this system, tenderer must submit their offer in two separate sealed envelopes as mentioned below:

**Envelope No. 1: Called " Techno-Commercial Bid " shall contain : :**

- a. Earnest Money Deposit (EMD) as given in IBIB Clause 11 or necessary exemption certificate or proof of exemption if bidder is exempted from EMD.
- b. Tender Fee : Nil-
- c. Detailed Technical features of the equipment/Item quoted
- d. Technical Quality and Performance of the Item quoted
- e. Technical Compliance Report for all Clauses in Technical Specifications as given in Section V.
- f. Confirmation letter that the financial bid covers all the items of the tender document.
- g. Guarantee Bond for Performance Security Deposit as given in Section VIII.
- h. Manufacturer's Authorization Form as given in Section IX.
- i. Commercial Terms and Conditions documents sought in the Tender except Price and related financial details Form of Details about Tenderer (Sec VII) along with the following documents.



- j. A certified Xerox copy of Partnership deed / memorandum of articles and associations.
- k. Power of attorney, if required
- l. Certified copy of valid latest Income Tax clearance certificate
- m. Details of service centers, international offices, point of presence, including registration details, if any.
- n. List of service stations / Customer support stations in India, with detailed address and phone numbers and contact person through whom services will be provided (if required)
- o. Documents of previous Experience of Bidder's Eligibility, Purchase order & Completion certificate of end users.
- p. Detailed information regarding previous experience of supply and installation of the similar equipment/systems to any Government Organization and list of the clients
- q. A copy of the Agency agreement of Indian agent with the Foreign Supplier, if applicable.
- r. A copy of registration with Central Ministries or Departments by Indian agent of Foreign Supplier, if applicable.

**Envelope No. 2 : Called " Financial Bid " shall contain:**

- i) Duly filled prescribed Bid Form and Price Schedule (Section VI) with proper seal and signature of authorized person on each paper of tender
- ii) Item-wise unit cost as well as total cost for total requirement should be quoted in clean and neat manner in figure as well as words
- iii) Price bid should contain price details as per Section VI.

The Techno-commercial Bid and Financial Bid should be sealed separately and clearly indicate **"Envelope No. 1 – Techno-Commercial Bid"** and **"Envelope No. 2 – Financial Bid"**. The two sealed envelopes should be kept in a third larger envelope and addressed to the

**Administrative Officer,  
Centre for Materials for Electronics Technology,  
Shoranur Road, M.G. Kavu, Athani (PO),  
Thrissur - 680 581, Kerala, India.**

**Please write the tender reference number on each envelope and seal all the envelopes as per IBIB Clause 14.**

If it is found that the Tenderer does not submit any of the above documents or if it is found that the price quoted is submitted in the techno- commercial bid, the tender will be rejected.

## **IMPORTANT DATES FOR SUBMISSION OF TENDER**

Item no.	Tender Reference No	Brief Description of Stores/Goods/ Equipment	EMD (in Rupees)	Place of Delivery
01	TR/PUR/ SP/60/2019	Glove Box with Gas Purification System	Rs. 56,000/-	C-MET, Thrissur

**Last Date for Receipt of Tender** : 06<sup>th</sup> Dec., 2019 (upto 15.00 hrs)

**Date of Opening of Technical Bids of Tender** : 06<sup>th</sup> Dec.,2019 (at 15.30 hrs)

The envelopes containing Techno-Commercial Bid will be opened at 3.30 p.m. on 06<sup>th</sup> Dec., 2019, at **C-MET, Thrissur**, in the presence of the nominated committee of C-MET, Thrissur and in the presence of the participant bidders or their authorized representatives. Any change in this will be duly communicated to the bidders.

### **5. Eligible Goods and Services**

- 5.1 All goods and ancillary services/spares to be provided under the Contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services.
- 5.2 For purpose of this clause, “origin” means the place from where the goods are supplied, through manufacturing, processing or substantial or major assembling of components from or from which the ancillary services/spares are supplied. Goods are produced, when a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 5.3 The country of origin of goods and services is distinct from the nationality of the Bidder.

### **6. Cost of Bidding**

- 6.1 The Bidder shall bear all the costs associated with the preparation and submission of its bid, and C-MET will in no case be responsible or liable for these costs, regardless of conduct or outcome of bidding process.
- 6.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder’s risk and may result in rejection of its bid.

### **7. Clarification of Bidding Documents**

A prospective Bidder requiring any clarification of the bidding documents may notify

**Administrative Officer**  
**C-MET, Shoranur Road, M.G. Kavu**  
**Athani Post, Thrissur – 680 581, Kerala, India**  
**Tel No.: +91-487-2201156 / 2201157 / 2201158/2201159**  
**Fax: +91-487-2201347**  
**Email: – anilkumar@cmet.gov.in**

in writing at the address indicated above. C-MET will respond in writing to any request for the clarification of any bidding documents which it receives 10 days prior to deadline for submission of bids.

## ***B. PREPARATION OF BIDS***

### **8. 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 C-MET shall be in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an appropriate translation of the relevant document in the English language and in such a case, for purpose of interpretation of the Bid, the English translation shall govern.

### **9. Bid Form**

The Bidder shall complete the Bid Form (Section VI) and the appropriate Price Schedule furnished in the documents indicating the goods to be supplied and services to be offered, a brief description of the goods and services, their country of origin, quantity and price.

### **10. Documents establishing Good's Eligibility and Conformity to Bidding Documents.**

- 10.1 The Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services, which the Bidder proposes to supply under the contract.
- 10.2 The documentary evidence of the goods and services eligibility shall consist of a statement in the price schedule on the country of origin of goods and services offered with a certificate of origin shall confirm at the time of shipment.
- 10.3 The documentary evidence of conformity of goods and services to the bidding documents may be in the form of literature, drawing and data, and shall consist of:
  - a) A detailed description of the essential technical and performance characteristics of the goods;
  - b) A list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for the period for the three years following the commencement of the use of the goods by C-MET, and

- c) An item-by-item commentary on C-MET's Technical Specification 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.
- d) Bidder should give details of the complete details of all the configurations of the equipment offered along with Model and Modules of the product offered.
- e) Bidder should give Bill of material in technical bid without commercial details.

10.4 For purposes of the commentary, the Bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers designated by C-MET in its Technical Specifications are intended to be descriptive only and not restrictive.

## 11. Earnest Money Deposit (EMD)

11.1 E.M.D or Bid Security for each item in Indian Rupees as per the Table under clause: 11.1.d should be deposited by the Tenderer, in any one of the following forms, along with the Technical Bid

- a. Call Deposit Receipt duly endorsed in favour of C-MET, Thrissur or Pay Order or Demand Draft in favour of C-MET, Thrissur.
- b. Bank Guarantee from a Commercial Bank in favour of C-MET, Thrissur - irrevocable and operative till the expiry of sixty days after the validity of offer.
- c. Fixed Deposit Receipt issued by Commercial banks endorsed in favour of C-MET, Thrissur.
- d. EMD in case of a Foreign Supplier should be furnished by its Indian agent in any of the forms of IBIB Clauses 11.1.a to 11.1.c. In case the Foreign Supplier does not have an Indian agent, EMD may be paid either through Bank Guarantee issued by the foreign branches of Indian nationalized bank or Bank Draft in US\$ for equivalent amount in favour of C-MET payable at Thrissur as the case may be.

Item no.	Tender Reference No	Brief Description of Stores/Goods/ Equipment	EMD (in Rupees)
01	TR/PUR/ SP/60/2019	Glove Box with Gas Purification System	Rs. 56,000/-

11.2 The EMD shall be put in a separate envelope superscribing tender reference no. as such on it and put in the envelope containing Technical bid as described in IBIB Clause 4. In the absence of EMD the Bid will not be accepted.

- 11.3 The Earnest Money Deposit will be returned along with necessary endorsement for payment to the bidder (without interest) whose offers are not acceptable to C-MET after placing the final order.
- 11.4 The EMD shall also be forfeited:
- 11.4.1 if a Bidder withdraws its bid or increases rates during the period of Bid validity specified by the Bidder on the Bid Form ;
- 11.4.2 or in case of a successful Bidder, if the Bidder fails:
- a) to accept the Purchase Order as per IBIB Clause 24 or refusal to execute the tender after it has been awarded or obligations under the same are not fulfilled; or
  - b) to furnish the performance security deposit in accordance with IBIB Clause 25.

## **12. Period of Validity Bids**

Bids shall be valid for 90 days after the date of bid opening prescribed by C-MET. A Bid valid for a shorter period shall be rejected by C-MET as non-responsive.

- 12.1 In exceptional circumstances, C-MET may solicit the Bidder's consent to extend the period of validity of the Bid. The request and the responses thereto shall be made in writing. The Bid Security period, shall also be suitably extended. A Bidder may refuse the request by forfeiting its EMD. A Bidder granting the request will not be permitted to modify its bid.
- 12.2 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

## **13. Format and Signing of Bid**

- 13.1 Both the Bids envelopes and their contents shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. Written power-of-attorney accompanying the Bid shall support the latter authorization. The person or persons signing the Bid shall initial all pages of the Bid, except for un-amended printed literature.
- 13.2 Any interlineations, corrections, erasures or overwriting shall be valid only if the person or persons signing the Bid sign them.

## ***C. SUBMISSION OF BIDS***

### **14. Sealing and Marking of Bids**

- 14.1 The Bidders shall seal the two envelopes in separate inner envelopes, duly marking the envelopes as Techno-Commercial Bid and Financial Bid. Tender Reference No. and name and address of Bidder should be marked on each of the bid envelopes. These two envelopes should be placed inside an outer envelope. The outer envelope shall be sealed and indicate Tender Reference No. and name and the name and address of the bidder.
- 14.2 The inner and outer envelopes shall be addressed to the

**Administrative Officer  
C-MET, Shoranur Road, M.G. Kavu  
Athani Post, Thrissur – 680 581, Kerala, India**

- 14.3 The inner envelopes shall also indicate the name and address of the Bidder to be returned unopened in case it is declared “late”.
- 14.4 If the outer envelope is not sealed and marked as specified, C-MET will assume no responsibility for the Bid’s misplacement or premature opening.
- 14.5 Telex, cable, e-mail or facsimile bids will be rejected.

**15. Deadline for Submission of Bids**

- 15.1 **Bids must be received by C-MET at its address mentioned above not later than 06<sup>th</sup> Dec., 2019 at 15.00 hrs at C-MET, Thrissur.** Bids may be sent through courier/speed post or dropped in the Tender Box available at C-MET, Thrissur. In the event of the specified date for the submission of Bids being declared as a holiday for C-MET, the bids will be received upto the appointed time on the next working day.
- 15.2 C-MET may, at its discretion, extend this deadline for submission of bids by amending the tender document, in which case all rights and obligations C-MET and Bidders will thereafter be subject to the deadline as extended.

**16. Late Bids**

Any bid inadvertently received by C-MET after the deadline for submission of bids prescribed by C-MET, will not be considered and returned unopened to the Bidder.

**D. BID OPENING AND EVALUATION OF BIDS**

**17. Opening of Bids by C-MET**

- 17.1 **A nominated Committee of C-MET will open Techno-Commercial Bids, in the presence of Bidder or his representative, who choose to attend, at 15.30 hrs on 06<sup>th</sup> Dec., 2019 at C-MET, Thrissur.**
- 17.2 The Bidder’s representative who is present shall sign an attendance register evidencing their attendance. In the event of the specified date of Bid opening being declared holiday for C-MET, the Bid shall be opened at the appointed time and location on the next working day.
- 17.3 The Bidder’s names, the presence or the absence of requisite EMD and such other details as C-MET, at its discretion, may consider appropriate, will be announced at the time of opening. No Bid shall be rejected at the opening, except for late bids, which shall be returned unopened to the bidders.
- 17.4 After the rigorous evaluation of the Techno- Commercial bids by C-MET (Centre for Materials for Electronics Technology), the qualified tenderers will be short-listed.

- 17.5 No clarification at the initiative of the bidder, after the technical bids are opened shall be entertained.
- 17.6 The Financial Bids will be opened from the Short listed Bidders only at a time and place to be intimated to the Short listed Bidders. The bid prices, discounts and such other details as C-MET, at its discretion, may consider appropriate, will be announced at the time of opening of Financial Bids.

## **18. Clarification of Bids**

During evaluation of bids, C-MET, at its discretion, may ask the Bidder for a clarification of its bid. The request for a clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted. However No post bid clarification at the initiative of the bidder; shall be entertained.

## **19. Preliminary Examination**

- 19.1 C-MET will examine the Techno- Commercial bids to determine whether they are complete, whether any computational errors have been made, whether sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Bids from dealers, without proper authorization from the manufacturer as per **Section IX**, shall be treated as non-responsive.
- 19.2 Arithmetical errors 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 words and figures, the amount in words will prevail.
- 19.3 C-MET may waive any minor formality or non-conformity in a bid, which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder. Prior to the detailed evaluation, C-MET will determine the substantial responsiveness of each bid to the bidding documents. For purposes of this Clause, a substantially responsive bid is one, which confirms to all the terms and conditions of the bidding documents without material deviation. Deviations from or objections or reservations to critical provisions such as those concerning EMD (IBIB Clause 11), Guarantee Bond for Performance Security Deposit (IBIB Clause 4.g), Warranty (GTC Clause 15), Applicable law (GTC Clause 22) and Taxes and duties (STC Clause 2.1 and 2.2) will deemed to be material deviations. C-MET's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 19.4 If a Bid is not substantially responsive, it will be rejected by C-MET and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

## **20. Evaluation and comparison of Bids**

- 20.1 C-MET will evaluate and compare the bids, which have been determined to be substantially responsive.

20.2 In C-MET's evaluation of a bid price, such price evaluation shall include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and excise duty on the finished goods, (if Payable) and price of incidental services, the following factors, in the manner and to the extent indicated in the Technical Specifications:

20.2.1 Cost of inland transportation, freight, transit insurance, and other costs within India incidental to the delivery of the goods to their final destination;

20.2.2 Delivery schedule offered in the bid;

20.2.3 Deviations in payment schedule from that specified in the General Terms and Conditions of Contract;

20.2.4 The availability in India of spare parts and after-sales services for the equipment offered in the bid;

20.2.5 While evaluating the tender C-MET, has the exclusive right to include or exclude any or all the spare parts or accessories mentioned in the tender for which the tenderer is required to quote separately

20.3 Delivery Schedule

C-MET requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Technical Specifications. The estimated time of arrival of goods at the C-MET site should be calculated for each bid after allowing for reasonable transportation time. The supplier will have to pay a penalty to C-MET in the form and at the rate mentioned in the GTC Clause No.19. No credit will be given to earlier deliveries and Bids offering delivery beyond 04 to 06 weeks of stipulated delivery period will be treated as unresponsive.

20.4 Deviation in Payment Schedule.

The Special Terms and Conditions of Contract stipulates the payment schedule offered by C-MET.

20.5 Spare parts and after sales services facilities in India

The cost to C-MET of establishing the minimum services facilities and parts inventories, as outlined elsewhere in bidding documents, if quoted separately, shall be added to the bid price.

## **21 Contacting C-MET**

21.1 Subject to IBIB Clause 18, no Bidder shall contact C-MET, Thrissur on any matter relating to its bid, from the time of the bid opening to the time of contract is awarded. If he wishes to bring additional information to the notice of C-MET, it should do so in writing. C-MET reserves its right as to whether such additional information should be considered or otherwise.

21.2 Any effort by a Bidder to influence C-MET in its decision on bid evaluation, bid comparison or contract award shall result in disqualification of the Bidder's Bid and also forfeiture of his EMD amount.

## **22 Purchase's Right to Accept Any Bid and to Reject Any or All Bids**



C-MET 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 Contracts, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or Bidders of the grounds for C-MET's action.

### **23 Notification of Awards**

- 20.1 Prior to the expiration of the period of the bid validity, C-MET will notify the successful bidder in writing, to be confirmed in writing by registered letter, that his bid has been accepted unconditionally.
- 20.2 The notification of award will constitute the formation of the Contract at Bidder's cost.
- 20.3 Upon the successful Bidder's furnishing of Performance Security Deposit pursuant to IBIB Clause 25 C-MET will promptly notify each unsuccessful Bidder and will discharge its EMD or bid security; pursuant to IBIB Clause 11

### **24 Signing of Contract**

- 24.1 At the same time as C-MET notifies the successful Bidder that its bid has been accepted, C-MET will send the bidder the Purchase Order, incorporating all the terms and conditions.
- 24.2 Within 10 days of receipt of the Purchase Order/Contract, the successful bidder shall sign and put the date in Purchase Order/contract and return it to C-MET along with Performance Security Deposit as per IBIB Clause 25

### **25 Performance Security Deposit**

- 25.1 Within 10 days of the receipt of notification of award of purchase order /contract from C-MET, the Bidder shall furnish a Performance Security Deposit equivalent to 10% of the contract value in anyone of the forms as given below:
  - 25.1.1 Fixed Deposit Receipt duly endorsed in favour of C-MET, Thrissur or Demand Draft in favour of C-MET, Thrissur, from a Commercial bank.
  - 25.1.2 Bank Guarantee issued/confirmed from a Commercial Bank in India in favour of C-MET, safeguarding the purchaser's interest in all respects - irrevocable and operative for the entire period starting from acceptance of the contract ending 60 days beyond the date of completion of all contractual obligations of supplier, including warranty obligation. Bank Guarantee issued by foreign bank shall be got confirmed by a Commercial Bank in India.
- 25.2 The Performance Security Deposit is required towards fulfillment of the Purchase order / Contract obligations. This Security Deposit will be forfeited in case the successful Bidder fails to execute the Purchase Order/ Contract.

- 25.3 Failure of the successful Bidder to comply with the requirement of the IBIB Clause 26 can constitute sufficient grounds for the annulment of the award in which event C-MET may call for new bids.

## **26 Corrupt or Fraudulent Practices.**

- 26.1 C-MET requires that the bidders/suppliers/ contractors under this tender, observe the highest standards of ethics during the procurement and execution of such contracts. In pursuance of this policy, C-MET:
- 26.1.1 Defines for the purposes of this provision, the terms set forth as follows:
- a) “corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of the public official in the procurement process or in contract execution; and
  - b) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or execution of a contract to the detriment of C-MET, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive C-MET of the benefits of the free and open competition;
- 26.1.2 will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- 26.2 C-MET will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing, a contract.

## **27 Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity in the interpretation of any of the clauses in Tender Document or the Contract Document, the interpretation of the Director General, C-MET shall be final and binding on all parties.

## **28 In case of any legal dispute the jurisdiction will be Thrissur only.**

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### SECTION III: SPECIAL TERMS AND CONDITIONS (STC)

#### 1. **FOR INDIAN SUPPLIERS:**

- 1.1 In case of partnership firm or Joint Hindu concern, the names and full particulars of the partners or the members if the Joint Hindu family owning the concern, the information will have to be submitted on separate sheet along with the Tender. The Tender must be signed:-
- (i) In the event of being a sole proprietary concern by the sole proprietor or by a constituted attorney duly authorized to enter into and sign agreements on his behalf including agreement to refute disputes arising under or relating to such agreement to arbitration by a power of attorney signed by the proprietor and authenticated by a Notary Public or Magistrate.
  - (ii) In the event of being a partnership firm, by all partners or by a constituted attorney duly authorized to enter into and sign on behalf of the partnership firm including agreements, to refute disputes arising under or relating to such agreements or arbitration by a power of attorney executed under the firm's common seal and authenticated by a Notary Public or a Magistrate.
  - (iii) In the event of being a Hindu Joint Family concern, by the Kartas of the Joint family

#### 2. **CUSTOMS DUTY & GST EXEMPTION**

- 2.1. **CUSTOMS DUTY:** Centre for Materials for Electronics Technology (C-MET) has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), Govt. of India, vide their Notifications No.51/96- Customs dt. 23.07.1996, No. 24/2007- Customs dt. 01.03.2017, No. 43/2017 – customs dt. 30.06.17, No. 45/2017 - Central Tax (Rate) & 47/2017 – Integrated Tax (Rate) dt. 14.11.2017, No. 9/2018 – Central Tax(Rate) , No. 09/2018 –Union Territory Tax (Rate) & No. 10/2018-Integrated Tax (Rate) dt. 25.01.2018 ; and state Tax (Rate) as applicable and all notification, as amended from time to time, in respect of
- a) Scientific and technical instruments, apparatus, equipment including computers.
  - b) Accessories and spare parts of goods specified in (a) above and consumables.
  - c) Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, micro-chips etc.
  - d) Prototypes.

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

- 2.2 **GST:** C-MET is eligible for concessional GST/IGST; ie GST/IGST above 5% is exempted as per Notification No. 45/2017- Central Tax (Rate) and 47/2017 (Integrated Tax (Rate) dated 14.11.2017.

### **3. PAYMENT TERMS**

Payments shall be made promptly by C-MET, but in no case later than thirty (30) days, after submission of the pre-receipted invoice or bills in duplicate by the Supplier and successful installation and demonstration of the stores / goods / equipments by the supplier.

### **4. FOR FOREIGN SUPPLIERS**

- 4.1 Cost of the items should be mentioned clearly in the Commercial Offer (Part-II) only. The optional and any other essential items / accessories required for the maintenance of the equipment for the next three years should also be specified in the offer separately.
- 4.2 All costs should be given in Indian rupees and/or in a convertible currency like US-\$, UK- Pounds, Japan- Yen, France- Francs or German Mark or Euro.
- 4.3 The Principal Supplier should clearly indicate the address of its Indian Agent, if any, and percentage (%) of Agency Commission payable, if any.
- 4.4 The Indian Agent should produce a copy of the Agency Agreement with the foreign principal giving the precise relationship between them and their mutual interest in business.
- 4.5 The Bidder should indicate the names of the reputed Indian organizations, CSIR Labs and other scientific and technical institutes where the Bidder has supplied similar equipment and attach satisfactory performance report of the equipment from the user organizations.
- 4.6 Details of services rendered by the Bidder as well as after-sales services offered by him should be made clear in the Bid.
- 4.7 The Tenderer's conditions printed on the tender or otherwise sent along with the tender shall not be binding on C-MET.
- 4.8 Supply means "Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training". If there are any extra charges for Installation, Commissioning and training, the same should be specified in the commercial offer.
- 4.9 The address of Principal's/Manufacturer's and their Banker's details should be furnished.

- 4.10 Installation is to be arranged by the supplier free of cost, and the same is to be done within 15 days of the arrival of the equipment at site.
- 4.11 The makes / brand and name and address of the manufacturer, Country of Origin, Country of Shipment and currency in which rates are quoted are to be mentioned.
- 4.12 The payment of local currency portion shall be payable in equivalent Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.
- 4.13 Details of onsite warranty, agency that shall maintain the supplied stores/goods/equipments during warranty and undertake Annual Maintenance Contract (AMC)/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign supplier, the Indian Agent who shall maintain supplied stores/goods/equipments during warranty and provide maintenance beyond warranty shall be given in the Technical Offer.
- 4.14 The supply of spare parts is to be guaranteed at least for a period of 5 years after the supply of the equipment. GTC Clause 14 for supply of spare parts shall apply in addition to this.
- 4.15 The price of imported stores/goods/equipments shall be quoted specifying:
- (a) F.O.B. Prices in any foreign currency and/or Indian rupees equivalent and port of shipment.
  - (b) C.I.F. Prices in any foreign currency and/or Indian Rupees equivalent.  
F.O.R destination - in Indian Rupees only.  
The estimated cost of the freight and insurance should be specified separately and individually.
  - (c) Agency Commission payable to Indian agent, if any, included in the F.O.B. / C.I.F. price should be given separately.
  - (d) The stores/goods/equipments are required to be installed at C-MET, Thrissur and subsequent Training to be provided to C-MET's employees shall be arranged by the Seller, free of cost, at the place of consignee.

## **5 PAYMENT TERMS**

Payment shall be made through irrevocable Letter of Credit (L.C.) in favour of the foreign supplier through C-MET's banker.

## **6 Shipment should be effected as far as possible through Air India.**

## **7 FORWARDING OF SHIPPING DOCUMENTS ETC. TO THE CONSIGNEE**

- 7.1 Port of Delivery shall be intimated by the C-MET.
- 7.2 Advance shipment intimation shall be sent to C-MET, by the Tenderer, as required in the purchase order.
- 7.3 After completion of the shipping arrangements by the forwarding agent, he shall promptly provide C-MET with the original Airway bill and copies of Airway bill showing air freight charges, freight sheets, invoices, and packing slips to enable C-MET to arrange for the clearance of goods from the Indian Customs.
- 7.4 The Supplier shall also provide to C-MET a set of documents containing the following : -
- i) Commercial Invoice in triplicate
  - ii) Packing list in triplicate
  - iii) Evidence of Dispatch (A copy of non-negotiable AWB copy)
  - iv) Certificate of origin country
  - v) Manufacture's guarantee and Inspection certificate

## 8 INSPECTION AND WARRANTY:

- 8.1 The inspection of the consignment on receipt in India shall also be carried out before taking over by C-MET, by the ultimate consignee or his nominee.
- 8.2 In all cases, whether inspection is carried out by C-MET's Inspector or not, Manufacturer's Test Certificate shall invariably accompany the equipment.
- 8.3 Instruments / Equipments /Components and all the materials, supplied against the order must be provided with guaranty/warranty against manufacturing and functional defects as given below and the date of warranty / guarantee shall commence from the date of installation / commissioning.

Item no.	Tender Reference No	Name of the Equipment	Warranty period
01	TR/PUR/ SP/60/2019	Glove Box with Gas Purification System	1 year standard warranty.  AMC charges for 3 years beyond warranty period of 1 year may be quoted

## 9 Other Terms:

- 9.1 Agency Commission: Shall be payable to Indian Agent, after installation and testing of the equipment. The payment shall be made in Indian Rupees only.
- 9.2 Banking / L.C. Charges: In India on C-MET's account and abroad on Supplier's account, at actuals on opening of L.C. All

charges for amendment of L.C. after its opening shall be on Supplier's account.

- 9.3 Freight, Clearing etc. : On C-MET's account, payable in Indian Rupees.
- 9.4 The supplier shall be responsible for obtaining permission for export from the govt. of the country of origin. All expenses in this regard will be borne by the supplier.

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## **SECTION IV: GENERAL TERMS AND CONDITIONS (GTC)**

### **1. Criteria for pre-qualification of tender and negotiations**

Specifications confirming to the requirement or better than that, Past Performance, Financial Soundness, Technical Competence, Total Cost and Organizational Capability of the Tenderer to provide installation, commissioning, after sale service and spare parts supply shall be some of the crucial parameters for pre-qualification of tenderers to be called for negotiations.

### **2. Re-tendering**

On finding inadequate response to Tender Notice or if the Prices quoted are substantially high and negotiations with the tenderers have not resulted in any positive response C-MET may accept or order re-tendering.

In case a ring is suspected, re-tendering will normally be resorted to.

### **3. Price escalation**

Procurement will normally be based on firm prices, excepting where material costs are likely to be dependent upon statutory variation or are liable to wide fluctuations as in the case of non-ferrous metals. In such cases, to determine the escalation, documentary proof, shall be produced by the supplier.

### **4. Performance Security Deposit**

4.1 The Performance Security Deposit as per IBIB Clause 25 shall be for entire period from acceptance of Contract to completion of warranty plus 60 days.

4.2 The proceeds of the Performance Security Deposit shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

4.3 The Performance Security Deposit will be discharged by C-MET and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligations under the contract.

4.4 In the event of any contract amendment, the Supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security Deposit, rendering the same valid for the duration of the Contract, as amended for further period of 60 days thereafter.

### **5. Country of Origin**

5.1. All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible.



- 5.2. For purposes of this Clause “origin” means the place where the Goods produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and manor assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 5.3. The country of origin of Goods and Services is distinct from the nationality of the Supplier.

## **6. Standards**

The Goods supplied 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. The goods to be supplied shall be new only.

## **7. Patent Rights**

The Supplier shall indemnify C-MET against all third-party claims of infringement of patent, trademark, Copy Right or industrial design rights arising from us of the Goods or any part thereof in India.

## **8. Tender Specifications**

- 8.1 The specifications for the items quoted should be explicitly clear and all available technical literature, catalogues and other data in support of the specifications of the items should be furnished along with the Tender. In the event of an alternative offered by the Tenderer, full specifications, details, literature, etc., which may justify consideration of such alternative offer, need to be given.
- 8.2 It should specifically be mentioned as to whether the price quoted includes all taxes and duties. Sales tax and/or other duties and levies where legally leviable and intended to be claimed should be distinctly shown separately in the Tender. Packing, Forwarding and handling charges, etc., if any, to be quoted separately.
- 8.3 The Tenderer should provide all the information asked for in the Form for Details about the Tenderer.
- 8.4 The Tenderer has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests, i.e., pre-installation facilities required for installation, may please be intimated in the Technical Bid.

## **9. Validity of Tender:-**

The quotations should be valid, for a period of 90 days from the last date of receipt of the Tender.

## **10. Inspections and Tests**

- 10.1 C-MET or its representative shall have the right to inspect and/or to test the Goods and services to confirm their conformity to the Contract specifications at no extra cost to C-MET. C-MET shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 10.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at 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 C-MET.
- 10.3 Should any inspected or tested Goods fail to conform to the specifications, C-MET may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to C-MET.
- 10.4 C-MET's right to inspect test and, where necessary, reject the Goods after their arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by C-MET or its representative prior to the Goods shipment.
- 10.5 **Nothing in GTC Clause 10 shall in any way absolve** the Supplier from any warranty or other obligations under this Contract.

## **11. Packing**

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. 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, and the remoteness of the Goods final destination and the absence of heavy handling facilities at all point in transit.

## **12. Delivery and Documents**

Delivery of the Goods and services shall be made by the Supplier in accordance with the terms specified by C-MET in the Purchase Order.

## **13. Insurance**

Insurance shall be arranged by C-MET for the Goods supplied under the Contract in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

## **14. Spare Parts**

The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- 14.1 Such spare parts as C-MET may elect to Purchase from the Supplier, providing that this election shall not absolve the Supplier of any warranty

obligations under the Contract; and

- 14.2 In the event of termination of production of the spare parts:
- i. advance notification to C-MET of the pending, termination, in sufficient time to permit C-MET to procure needed requirements; and
  - ii. Following such termination, furnishing at no cost to C-MET, the blueprints, drawings and specifications of the spare parts, if requested.
- 14.3 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares. Other spare parts and components shall be supplied as promptly as possible but in any case within one month of placement of order.

## **15. Warranty**

- 15.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by C-MET's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall be as per mentioned in Technical Specification, including the service/maintenance/repair warranty, after the Goods or any portion thereof as the case may be, have been delivered, commissioned and accepted at the final destination indicated in the Contract.
- 15.3 C-MET shall promptly notify the Supplier in writing of any claims arising under this warranty
- 15.4 Upon receipt of such notice, the Supplier, with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on C-MET for the replaced parts/goods thereafter.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s) within a reasonable period of one month, C-MET may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which C-MET may have against the Supplier under the Contract.
- 15.6 If the down time is more than eight hours, supplier shall provide temporary replacement of the defective component and remove the defect. If the downtime is more than seventy two hours then the warranty period will be extended by one month for entire contract.
- 15.7 The Bidder must indicate who will maintain equipment/instrument after warranty period (post warranty) by giving the name of Firm, address, contact person, phone no. and fax no. etc in the Technical Bid.
- 15.8 The Bidder has to quote rates for Annual Maintenance Contract (AMC) for additional 3 (three) years , in the Commercial Bid.

## **16. Payment**

- 16.1 The methods and conditions of payment to be made to the Supplier under this Contract shall be specified in the STC.
- 16.2 The Supplier's request(s) for payment shall be made to C-MET in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GTC Clause 12, and upon fulfillment of other obligations stipulated in the contract.

## **17. Prices**

Prices payable to the Supplier as stated in the Contract shall not be changed and remains applicable during the performance of the Contract.

## **18. Advance payment**

C-MET being an autonomous organization of Govt. of India, normally no advance payment shall be made. However, 90% payment against dispatch of documents through our bankers can be considered in the case of Indian Suppliers. The balance 10% shall be released to the Supplier within 30 days of successful delivery, installation and demonstration of stores / goods/ equipments by the Supplier.

## **19. Penalty Clause**

Subject to GTC Clause 20, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, C-MET shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in Clause-21 of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to maximum deduction of the percentage specified therein. Once the maximum is reached, C-MET may consider termination of the Contract pursuant to IBIB Clause 25 resulting in forfeiture of the Performance Security Deposit.

## **20. Force Majeure**

- 20.1 Notwithstanding the provisions of GTC Clause 19, the Supplier shall not be liable for forfeiture of its performance security, penalty or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 20.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not

limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

- 20.3 If a Force Majeure situation arises, the Supplier shall promptly notify C-MET in writing of such conditions and the cause thereof. Unless otherwise directed by C-MET in writing, the Supplier shall continue to perform its obligations under the Contract as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure.

## **21. Liquidated Damages**

The applicable rate is 0.5% of contract value per week and the maximum deduction is 10% of the contract price.

## **22. Applicable Law**

The Contract shall be interpreted in accordance with the laws of the Union of India.

## **23. Applicability to Other Terms and Conditions**

These General Terms and Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

## **24. Tenderers must ensure the following while submitting the Tender:-**

- 24.1 Tenderer should state whether he is a relative of any employee of CENTRE FOR MATERIALS FOR ELECTRONICS TECHNOLOGY (C-MET) and give the following certificate in the form for details of the Tenderer (s):

“ I / We have fully understood the foregoing general terms & conditions **of tender as well as the special terms and conditions** and having accepted the same in toto and I / we have made my / our offer keeping in view those terms and conditions. I / we fully agree that once I / We have endorsed in whatsoever and whichever way my / our signatures herein below all conditions whatsoever way mentioned by me / us which may not be acceptable to you / your principals shall be deemed to be / withdrawn by me / us and am/ are fully aware that no grievances whatsoever shall be entertained by you if our tender / quotation is not accepted / finalized.”

- 24.2 Tenderer sending their tenders by post/courier (mail) will do so solely at their own risk and C- MET will not be responsible for any loss in transit or postal delay.

- 24.3 Discount offered should be mentioned clearly in the commercial bid only.

- 24.4 The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate the

system without any problem. If the manuals are on chargeable basis, the same should be specified in the offer.

- 24.5 It should be noted by the Tenderer(s) that by entering into this contract C-MET is not precluded from entering into similar contracts with any one else of their choice at any time during the continuance of this contract.
- 24.6 The supplier on receipt of the Purchase order must acknowledge.
- 24.7 C-MET shall have the right to issue addenda to tender documents to clarify amend, modify, supplement or delete any of the conditions /clauses or items stated therein. Each addendum so issued shall form part of original invitation to the Tender.
- 24.8 In case the Bid is not accepted, or otherwise C-MET has elected to withdraw or cancel the invitation to the Tender for which C-MET shall, have the right to do so, at any time, the Tenderer shall not be entitled to claim any cost/charges/expenses incidental to or incurred by the Tenderer through or in connection with the submission of the offer. The Earnest Money Deposit paid by the Tenderers with the Tender will be refunded to them in due course without interest.
- 25 **Installation:** Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- 25.1 The equipment is to be guaranteed for trouble free performance for a minimum period of one year after installation. The defects, if any, during the guarantee period are to be rectified free of charge by arranging free replacement wherever necessary.
- 25.2 Pre installation information to be supplied 3 months before dispatch date.
- 25.3 Electrical power supply : -  
220V, 50 Hz, 1 phase (or) 400 V , 50 Hz , 3 phase  $\pm 10\%$
26. Quantities given in the tender specifications are approximate only and one or more of the items of the stores/goods/equipment tendered for a portion of one or more of the items of such stores/goods/equipment may be accepted and notwithstanding that the tender has not been accepted in whole, supplier shall be bound to supply to C-MET such items and such portion or portions of one or more of the items as may be accepted by C-MET.
27. The Director General, C-MET reserves the right to accept the tender in full or in part or to reject the lowest or any or all tenders without assigning any reason.
28. No Sub-contracting will be allowed for installation or maintaining system/equipment/instrument during or after warranty period.
29. The Tenderer should note that the General Terms and Conditions are in addition to the Special Terms and Conditions of Tender, which form an integral part of the General Terms and Conditions of the Tender, and any of the General Terms and Conditions of Tender may be altered by the Special Terms and Conditions

of Tender.

**30. Cancellation of order**

C-MET reserves the right to cancel the order without any liability in case the stores/goods/equipments are not supplied within the stipulated period and for non-fulfillment of specifications.

**31. Replacement of parts**

If any equipment or part thereof be lost or rendered defective during transit, a fresh order will be placed on the supplier for such loss or defective equipment, in which case the supplier shall arrange for the supply of the equipment or part thereof, as the case may be, within three months of date of such order at the same price as allowed in the original order on the same general terms and conditions.

**32. Arbitration**

Any dispute between the parties on the purchase would be settled by arbitration. The place of arbitration proceedings shall be at the place of the consignee. Applicable laws shall be laws of Union of India.

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## SECTION V-Technical Specifications

### **Technical specification for Glove box with Gas purification system**

Glove box with gas purification system is intended for carrying out organic synthesis, Lithium ion capacitor electrode preparation, electrolyte filling, capacitor sealing etc. in a moisture and oxygen free inert environment (i.e <1 ppm of oxygen and <1 ppm of H<sub>2</sub>O). Glove box with gas purification system should consists of four glove ports with gloves, required electrical feed through connections, lighting, window, main and mini anti chambers, vacuum pump, recirculating gas purification system with other necessary accessories.

The major specifications of Glove box with gas purification system are as follows

#### **1. Glove box**

- Approximate Internal dimension:  
Length - 1800 (+10%), Height- 875mm (+/- 5%), Depth -750mm (+/-5%).
- Design Type: Modular type having one side operation with standalone gas purification system integrated to the glove box .
- Working Environment: Nitrogen or Argon.
- Material of construction: Stainless steel 304
- Leakage rate –  $<5 \times 10^{-4}$ /h(0.05 vol %/h) As per ISO 10648-2 (Oxygen method)/ Class 1 standard.
- Pressure control – Automatic pressure control of + 15 milli bar to -15 milli bar through Programmable Logic Control (PLC). The provision for instant adjust using foot pedal/ mechanical vent valve or other suitable method should be provided.
- User interface –Major operations of the glove box such as adjusting the pressure inside the glove box, regeneration process, purge functions, oxygen and moisture content measurement etc. should be carried out using a PLC controlled touch screen of Siemens or other reputed make. The glove box should have provision for displaying operating parameters such as Pressure, Oxygen level, moisture, regeneration times etc. in English language
- Filters – Two HEPA 13 or better /0.3 micron Gas flow filters minimum one each for inlet and outlet. One set (for inlet and outlet) of additional filters should be supplied.
- Front window front panel- Front Window made up of scratch and chemical resistant durable materials such as Lexan/ Poly carbonate /laminated safety glass having thickness of ~10 mm with clear vision and provision for easy removal and replacement
- Internal power inside the glove box - Minimum one 220-230V electrical feed through with minimum four outlet power strip or more capable of connecting 5 A and 16 A load .
- Lighting – Appropriate and sufficient Illumination should be provided inside the glove box using LED lights/fluorescent lights or any other suitable lighting system.
- Blanked Feed through- Minimum 4 blanked leak tight KF 40 feed through mounted on the back wall.
- Glove port – 4 numbers of glove port having standard diameter made up of materials like Derlin/ PP/POM .
- Gloves– 4 numbers of antistatic Butyl gloves or any other appropriate material with proper security seal rings/O–rings.



- Adjustable storage system –Minimum two height adjustable shelves for storage inside the glove box should be provided on the back wall of the system.
- Flow Piping – All piping used should be of Stainless steel 304 grade.
- Valves and fittings- The valves and fittings used should be Swagelok type or of reputed make.
- Common vent line – A common vent line in Stainless Steel 304 should be provided.
- Safety valves –Necessary over pressure relief valve should be provided along with the system for ensuring the safety and working comfort.
- Stand- Glove box should mounted on a stand or supporting frame having locking and leveling casters made up of corrosion resistant stainless steel.
- Line Supply: 220-230 V AC (single Phase, 50 Hz)

## **2. Main antechamber**

- Type & Dimensions- Cylindrical, Diameter -400 mm (+/-5 %) , Length 600 mm (+/-5 %)
- Material of construction- Stainless Steel 304 grade
- Leak rate/tightness :  $<10^{-4}$  mbar.litre.s<sup>-1</sup>
- Evacuation and refilling – Evacuating and flushing with inert gas using push button/or automatic valves or appropriate mechanism.
- Door Closing opening mechanism– spindle lock/gas pivot type or any other appropriate type for easy operation .
- Tray - Sliding Stainless Steel Tray should be provided with Main antechamber.
- Vacuum gauge- Stainless Steel vacuum gauge or other suitable type .
- Door –Stainless steel 304 or suitable type.

## **3. Mini Anti chamber**

- Type & Dimensions- Cylindrical, Dimensions-Mounted 1/3 inside and 2/3 outside with Diameter -150 mm (+/-5 %) and Length – minimum 300 mm .
- Material of construction- Stainless Steel 304 grade.
- Tray - Sliding and removal Stainless steel Tray should be provided with the mini antechamber.
- Leak rate/tightness :  $<10^{-4}$  mbar.litre.s<sup>-1</sup>
- Vacuum gauge- Stainless Steel vacuum gauge or other suitable type.
- One additional valve on the top of the antechamber with connector for filling the electrolyte into the vessel placed inside the antechamber after attaining the vacuum should be provided.
- Heating facility for mini antechamber up to 100°C should be provided.

## **4. Recirculating Gas purification system**

- Gas purification system –Single column PLC controlled closed loop recirculating Gas Purification system using copper catalyst to remove oxygen and molecular sieve to remove moisture or suitable materials capable of producing less than 1 PPM oxygen and less than 1 PPM H<sub>2</sub>O environment inside the glove box.
- Controlling –Through PLC with touch screen controller
- Attainable Purification limit - < 1 ppm oxygen and <1 ppm H<sub>2</sub>O at complete pressure range.

- O<sub>2</sub> Capacity– Minimum 30 L.
- H<sub>2</sub>O capacity -Minimum 1300 g or better.
- Regeneration-Automatic regeneration process through PLC using mixture of gases containing N<sub>2</sub> or Ar and hydrogen.
- Filter system- Suitable filter system for highly efficient and continuous removal of oxygen and H<sub>2</sub>O.
- Recording history of Pressure, Oxygen and H<sub>2</sub>O - Facility for recording minimum 24 hours history of oxygen, moisture and pressure should be provided
- Oxygen and H<sub>2</sub>O alarm – Provision for Oxygen and H<sub>2</sub>O alarm should be included.
- Circulation blower –Circulation blower with suitable flow rate preferably 50 CFM or better having control through PLC controller. Blower should have sufficient capability to remove excess solvent vapours formed during the operation of glove box. Blower should be mounted externally in SS Case or suitable enclosure
- Vacuum Pump –Two stage oil sealed Rotary vane vacuum pump (Pfeiffer or Edward make) capable of achieving Vacuum of 10<sup>-2</sup> mbar or better with a minimum peak pumping speed of 12 m<sup>3</sup>/h for regeneration, pressure control and ante chamber evacuation operations of the glove box should be provided. Necessary moisture and vapour traps should be provided.
- Gas purification system should be compactly integrated with glove box system

#### **5. Oxygen analyzer**

- Oxygen Sensor type – Two wired, loop powered,4-20 mA transmitter microprocessor based Electrochemical oxygen sensor or solid state sensor with display and PLC control
- Measuring scale: In ppm or %
- Measuring range: 0-1000 ppm
- Resolution: 1 ppm or better
  
- Precision : +/- 1 ppm of the 0-10ppm scale

#### **6. H<sub>2</sub>O analyzer**

- H<sub>2</sub>O Sensor type – Ceramic Sensor or other suitable type with display and PLC control
- Measuring range: 0-500 ppm
- Precision : +/-2 °C DP or ppm
- Measuring unit - In °C DP or ppm
- Resolution: 1 ppm or better

#### **7. Solvent removal system**

- An external solvent removal system with minimum 4 kg of solvent absorbing material should be provided for removing solvent vapour from the glove box environment. Additional quantity of solvent absorbing material required for one time replacement should be supplied .

#### **8. Spares and accessories**

- Gas regulator/s (for use of nitrogen and argon environment ) and flow meter/s for achieving glove box environment of < 1 ppm of oxygen and moisture must be supplied.
- One pair of gloves and glove port cover (for closing the glove port while changing the gloves ) should be supplied

## **9. Optional items**

The following optional items must be quoted separately

- i) Spares required for smooth operation of next three years.
- ii) Additional quantity of solvent absorbing material required for 3 time replacement of solvent removal system.
- iii) 2 set (2 number of inlet and 2 number of outlet) of HEPA filters
- iv) Two numbers of high purity Nitrogen gas cylinder (capacity- 7 cubic meter) from reputed Indian supplier with suitable high purity nitrogen gas (purity 99.999 % with less than 10 ppm of oxygen and moisture ) and for achieving glove box environment of < 1 ppm of oxygen and moisture.
- v) Two numbers of high purity Argon gas cylinder (capacity- 7 cubic meter) from reputed Indian supplier with suitable high purity Argon gas (purity 99.999 % with less than 10 ppm of oxygen and moisture) and for achieving glove box environment of < 1 ppm of oxygen and moisture.
  
- vi) One number of gas cylinder from reputed Indian supplier (capacity- 7 cubic meter) containing gas mixture of Nitrogen+ Hydrogen suitable for the regeneration purpose may be separately quoted.
- vii) One number of gas cylinder from reputed Indian supplier (capacity- 7 cubic meter) containing gas mixture of Argon+Hydrogen suitable for the regeneration purpose may be separately quoted.
- viii) AMC charges for 3 years beyond warranty period of 1 year.

## **10. Other terms and conditions**

- Vendor should submit the Specification Compliance Statement (SCS) of the quoted models with respect to C-MET specification along with Technical bid
- Installation and Training : The system should be installed at CMET Thrissur premises and sufficient training for the operation of the system has to be provided to CMET Official at CMET Thrissur free of cost .
- Guarantee/ Warranty : The entire equipment should be guaranteed for a period of minimum one year from the date of commission.
- The supplier should have a track record of having previously supplied at least three glove boxes with above or similar specification in India. Please furnish the details preferably with customer feedback.
- The details of agents for providing after sales support and maintenance should be provided.
- Technical literature, catalogues including photographs should be provided along with the offer
- Pre-Installation requirements should be provided in the offer.

- Details such as dimensions of equipment, weight and space requirement should be provided along with the technical offer.
- Operators manual in English should be provided along with the system

**SECTION VI : BID FORM AND PRICE SCHEDULE**

# BID FORM AND PRICE SCHEDULE

**Tender Format Indian Suppliers**  
**(Ref. Slection II (IBIB), clause 4 (i) . )\***

Name of the Firm :  
 (Specify whether authorized agent or OEM)  
 Name of the Manufacturer:

Firm Registration No. (If any)		Date			
GST No.		PAN (Attach photocopy)			
Phone	Address :				
Fax					
Email					
URL					
Tender Schedule : All rates in Figures and in Words in Rupees					
Tender No. and Date					
Sr. No.	Description and Specification	Qty	Unit	Rate per unit	Amount
Packing / Forwarding charges					
GST					
Total value					
Delivery Terms					
Delivery Schedule :					
Enclosed Specifications/Drawings/Special Conditions of Contract :					
Item /Tender Specific Conditions of this Tender :					
I/we engage to supply the material(s) to your office and comply the following 1) Tender schedule and technical specification indicated 2) Item/tender specific conditions for this tender 3) Terms and conditions printed overleaf 4) General conditions of contract signed by me at the time of supplier registration (for registered suppliers) 5) I/we confirm that set off for the GST paid on the inputs have been taken into consideration in the above quoted price and further agree to pass on such additional duties as sets offs as may become available in future under GST 6) This offer is valid for 90 (ninety) days from the date of opening of the tender 7) That we have not been debarred by any Government /Undertaking 8) That the rates quoted are not higher than the rates quoted for same item to any Government/ Undertaking 9) That the bid submitted by us is properly sealed and prepared as to prevent any subsequent alteration and replacement.					
Signature & Seal		Name of			
Place & Date		Authorised Signatory			
Address		Tel. No/Fax No/ Mobile No.			
		Email id			

**\* TENDERS NOT IN THE PRESCRIBED FORMAT WILL BE TREATED AS NON- RESPONSIVE & WILL BE REJECTED**

**(Ref. Slection II (IBIB), clause 4 (i) . )\***

**Tender Format Foreign Suppliers**

Name of the Firm :  
(Specify whether authorized agent or OEM)

Name of the Manufacturer:

Firm Registration No. (If any)		Date			
GST No. (if applicable)		PAN, if any (Attach photocopy)			
Phone	Address :				
Fax					
Email					
URL					
Tender Schedule : All rates in Figures and in Words either in INR or in Foreign currency					
Tender No. and Date					
Sr. No.	Description and Specification	Qty	Unit	Rate per unit(specify the currency)	Amount (specify the currency )
Packing / Forwarding charges					
FCA charges, if any					
Total FCA price					
Freight charges up to Cochin, Kerala, India					
Insurance charges					
Total CIF up to Cochin, Kerala, India					
Item /Tender Specific Conditions of this Tender :					
I/we engage to supply the material(s) to your office and comply the following 1) Tender schedule and technical specification indicated 2) Item/tender specific conditions for this tender 3) Terms and conditions printed overleaf 4) General conditions of contract signed by me at the time of supplier registration (for registered suppliers) 5) I/we confirm that set off for the GST paid on the inputs have been taken into consideration in the above quoted price and further agree to pass on such additional duties as sets offs as may become available in future under GST 6) This offer is valid for 90 (ninety) days from the date of opening of the tender 7) That we have not been debarred by any Government /Undertaking 8) That the rates quoted are not higher than the rates quoted for same item to any Government/ Undertaking 9) That the bid submitted by us is properly sealed and prepared as to prevent any subsequent alteration and replacement.					
Signature & Seal Place & Date		Name of Authorised Signatory			
Address		Tel. No/Fax No/ Mobile No. Email id			

**\* TENDERS NOT IN THE PRESCRIBED FORMAT WILL BE TREATED AS  
NON- RESPONSIVE & WILL BE REJECTED**

**SECTION VII : FORM FOR DETAILS ABOUT THE TENDERER**



# FORM FOR DETAILS ABOUT THE TENDERER

(To be submitted with the Tender)

1. Tender Reference No :
2. Item No. :
3. Name of the Stores/Goods/Equipment :
4. Name of the Indian/Foreign Manufacturers :  
or their authorized distributors, dealers or Indian Agent
5. Registered Office Address :
6. Address for Correspondence :
7. Please state whether party is Company/Firm/Agency:  
Authorized Stockist/Dealer/Indian Agent  
(In case of an Indian agent of a Foreign Supplier, please attach  
copies of agency agreement and DGSD registration)
8. Total value of Annual Turn-Over/ Sales for the last 3 Years :
9. Sales Tax/Central Sales Tax Registration No:  
and Date..... and Validity upto
10. Income Tax (PAN) No. :  
G.I.R No./Circle / Ward
11. Name of the Bankers :
12. Address of the Bankers :
13. Past Performance of the firm/ Company :  
Please enclose list of Parties (Scientific and  
Technical Institutions) stating their Names and  
addresses with telephone no. and the names of  
same or similar items supplied to them during  
Last three years. Please enclose the reference letters from clients.

S. No	Type of Stores/Goods/ Equipment	Name of the client	Value of the Purchase Order	Date of award of Purchase Order	Date of completion

14. Financial Soundness :  
(Please enclose copies of certified financial  
statements for the last three years.)
15. Technical Competence.& Work Experience in India :
16. Organizational Capability :

No. of qualified engineers:

Name of the key personnel & qualifications:

17. Whether any relative of Tenderer is working in C-MET. If so, give his name, designation and place of posting :
18. Details of EMD: Demand Draft/Pay Order No..... Dt.....  
Amount Rs.....of.....(Name of Bank and Branch) Payable at ..... (Name of City)  
Bank Guarantee No..... Dt.....  
FDR No.....Dt.....
19. Whether the extra terms quoted and the prices : Yes / No are open to negotiations.

“I/We have fully understood the foregoing general terms & conditions of Tender as well as the Special terms & conditions of Tender given in the Tender Document and having accepted the same in toto and I /We have made my / our offer keeping in view those terms and conditions. I/We fully agree that once I / We have endorsed in whatsoever and whichever way my/our signatures herein below all conditions whatsoever way mentioned by me / us which may not be acceptable to you / your principals shall be deemed to be withdrawn by me / us and am / are fully aware that no grievances whatsoever shall be entertained by you if our tender / quotation is not accepted / finalized”

Place  
Date

Office Seal / Stamp

Name, Designation and  
Signature of the Authorised  
Signatory

**SECTION VIII: GUARANTEE BOND FOR PERFORMANCE SECURITY  
DEPOSIT**

**MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY**

To

Centre for Materials for Electronics Technology (C-MET),  
Shornur Road, Athani P.O., Thrissur, Kerala, Pin – 680 581

WHEREAS ..... (name and address of the supplier) (hereinafter called “the supplier”) has undertaken, in pursuance of contract no..... dated .....to supply (description of goods and services) (herein after called “the contract”).

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

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

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

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

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

This guarantee shall be valid until the ..... day of ....., 20.....

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

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

**SECTION IX: MANUFACTURERS' AUTHORIZATION FORM**

**MANUFACTURERS' AUTHORIZATION FORM**

No. \_\_\_\_\_ dated \_\_\_\_\_

**To :**

Administrative Officer,  
C-MET,  
Shoranur Road,  
M.G. Kavu, Athani Post,  
Thrissur – 680 771, Kerala, India

Tender Reference No. :

Item No. :

Name of Stores/Goods/Equipment :

Dear Sir,

We \_\_\_\_\_ who are established and reputed  
manufacturers of

\_\_\_\_\_ at  
having \_\_\_\_\_ factories \_\_\_\_\_  
\_\_\_\_\_ (address of  
factory) do hereby authorize M/s. \_\_\_\_\_

\_\_\_\_\_ (Name and address of  
Agent) to submit a bid, and sign the contract with you against the IBIB of the Tender  
Document.

We hereby extend our full guarantee and warranty as per Clause 15 of the General  
Terms and Conditions and Clause 2.21.3 of the Special Terms and Conditions of the  
Tender Document for the goods and services offered by the above firm against this  
tender.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should  
be signed by a person competent and having the power of attorney to bind the  
manufacturers. It should be included by the Bidder in its bid.

**FORMAT FOR CHECKLIST**

Check list for Tender No. TR/PUR/SP/60/2019

Sl.No	Particulars	Please put '√' mark
1	Whether submitted EMD  If not, whether eligible for EMD exemption	Yes/No
2	Whether valid certificate claiming EMD exemption submitted	Yes/No
3	Whether tender submitted in the prescribed format  ( Either in the attached format or in the letter head )	Yes/No
4	Whether registered under GST ACT	Yes/No
5	Whether submitted in two bid system/ single bid system	Yes/No
6	Whether eligible for procurement preference	Yes/No
7	Whether warranty as required by us quoted	Yes/No
8	Whether the envelope containing quotations properly addressed, sealed and super scribed as required	Yes/No
9	Whether principal supplier/ OEM itself or Agent /Dealer of behalf of Principal/OEM	Principal Supplier/OEM or Agent or Dealer of Principal supplier/OEM

Place:  
Date:

Name, Signature & Seal  
of Authorised Signatory