



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR-721 302

INVITATION FOR TENDER FOR SUPPLY OF **MASS FLOW CONTROLLERS** (Quantity 2) IN THE MATERIALS SCIENCE CENTRE.

Sealed Tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment:

(1) MASS FLOW CONTROLLERS with SS body and digital display for Nitrogen gas (QTY 1) and Argon gas (QTY 1)

Please send offers ALONG WITH DESCRIPTIVE CATALOGUE/BROCHURE. The validity of the bid should be at least four months from the date of opening of this tender. Please ensure that your quotation reaches this office not later than 08 April 2020 at 12:00 hours at the following address:

Chairman, Purchase Committee,
Materials Science Centre,
Indian Institute of Technology,
Kharagpur-721 302 (India).

Earnest Money of Rs. 4,000/- is to be deposited in the form of Account Payee Demand Draft in favor of IIT Kharagpur, payable at Kharagpur, India. Any Bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

Tender Reference	IIT/MS/ISIRD//GVC/PKS/20-21/28/55 Date: 18-08-2020
Price of the Tender Papers	Nil
Last Date and Time for receipt of technical /commercial bids in separate sealed envelopes	15 September 2020 at 12:00 hours
Time and date of opening of bids	15 September, 2020 at 15:00 hours
Place of opening Tender offers	Materials Science Centre, Indian Institute of Technology, Kharagpur-721 302, West Bengal,
Address of communications	As stated above
Contact telephone numbers	+91 3222 282273, 283980

Detailed Technical specification are given below: **MASS FLOW CONTROLLERS with SS body and digital display for Nitrogen gas (QTY 1) and Argon gas (QTY 1)**

A. MASS FLOW CONTROLLERS, STAINLES STEEL CONSTRUCTION AS DESCRIBED BELOW:

QTY.: TWO

SPECIFICATIONS:

1. SEALS: VITON
2. GAS FITTINGS: ¼" COMPRESSION / SAWAGELOK TYPE
3. ACCURACY: ± 1.0 % OF FULL SCALE
4. FLOW ADJUSTMENT: LOCAL OR REMOTE
5. BUILT-IN DISPLAY FOR FLOW RATE
6. NORMALLY CLOSED SOLENOID CONTROL, VALVE
7. MAXIMUM GAS PRESURE: 70 BARS APPROX.
8. INPUT / OUTPUT: 0-5 V AND / OR 4-20 mA
9. OPERATING TEMP.: 5 TO 50 DEG. C
10. LEAK INTEGRETU: 1×10^{-9} SCC / SEC. FOR HELIUM
11. OPERATING POWER: 12 V OR 24 V DC @ 1 A MAX.
12. FLOW RANGE AND GAS: 500 ML / MIN FULL SCALE FOR **NITROGEN (QTY.: 1) and Argon (QTY 1).**

B. DC Power Supply Output: 12 V @ 1a With Mating Connector To Item A, Input: 230 V / 1 Phase (Qty.: 2)

C. Basic model number and the catalogue copy should be enclosed

Warranty : The stores should be covered by warranty of operational/damaged or malfunction caused by equipment quality for a period of 1 year complete warranty on the two-zone furnace, rotary pump, Throttle valve and its controller units. A certificate of this effect should be furnished.

Others :

1. State availability of the spare parts for 5 years

2. The tender document must indicate what kind of service/maintenance is required for the system. Whether this service is carried out by company engineer or it can be carried out by factory trained service personnel within India.
3. Installation and commissioning: Must be free of cost at IIT Kharagpur. The bidder must mention how they plan to perform the installation.
4. Port of shipment and country of origin must be mentioned in bids.
5. A Checklist and Compliance statement against each item of the previous section must be provided in tabular format.

GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER :-

1. TENDER ARE INVITED IN DUPLICATE SETS COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S/FIRM'S LETTER HEAD NEATLY PRINTED/TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL.

3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.

4. **PRICE BID FOR FOREIGN FIRMS** : PRICES ARE TO BE QUOTED ON EX-WORKS DULY PACKED OR ON FCA/FOR INTERNATIONAL PORT BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP :-

- I) EX-WORKS PRICE
- II) PACKING AND FORWARDING
- III) FREIGHT
- IV) ANY OTHER RELEVANT EXPENSES
- V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS : PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. PERIOD OF VALIDITY : BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.

6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP AND MUTUAL INTEREST IN THE BUSINESS.

7. MEASUREMENTS/WEIGHT: NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS-PLYTO-SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).

8. SCOPE OF SUPPLY : Related documents/files for operation should be provided by the supplier.

PAYMENT TERMS FOR FOREIGN FIRMS :

(A) 100% PAYMENT THROUGH SIGHT DRAFT/FOREIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/ SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

(B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

(C) COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.

PAYMENT TERMS FOR INDIAN FIRMS:

(A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE/ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

(B) ENSURE MENTIONING:

I) BANK DETAILS OF THE BENEFICIARY AND PAN NUMBER

II) FULL NAME ANDE ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED.

(IN BOTH THE CASES ABOVE, INSTITUTE MAY PAY 90% ON DELIVERY OF THE ITEMS/STORES AND THE REMAINING, 10% AFTGER SATISFACTORY INSTALLATION AND PERFORMANCE).

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.

11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.

12. THE INSTITUTE SHALL PROVIDE THE CUSTOMS DUTY EXEMPTION CERTIFICATE AGAINST GENERAL EXEMPTION NO. 37(NOTIFICATION NO. TU/V/RG-CDE(344)/2011, DATED : 10.10.2011).

13. LIQUIDATED DAMAGES : THE STORES SHOULD BE DELIVERED DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IN THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OR STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.

14. PATENT RIGHTS : THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.

15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.

16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUE THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.

17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.

18. LATE TENDER, i.e. TENDEDR RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.

19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS :-

A) CURRENT INCOME TAX AND SALES TAX CLEARANCE CERTIFICATES AND PAN NO.

B) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. WARRANTY/GUARANTEE : THIS COMPREHENSIVE WARRANTY/GUARANTEE SHALL REMAIN VALID FOR TWELVE MONTHS AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION INDICATED IN THE COONTRACT.

21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED TO CHAIRMAN (PURCHASE COMMITTEE), MATERIALS SCIENCE CENTRE, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR-721 302 AND ACKNOWLEDGEMENT TO BE OBTAINED.

IMPORTANT :

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and / or replacement of any damaged item (s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to Prof. P. K. Sahoo, Assistant Professor, Material Science Centre, IIT Kharagpur, WB, India.
(Phone number 03222-283980)

LAST DATE FOR SUBMISSION OF SEALED BIDS: 15-09-2020 at 12.00 NOON

- 1) Please note that the Institute remains closed during Saturday and Sunday and all specified Government Holidays.
 - 2) Fax, e-mail Tender will not be accepted. Duplicate Bid document must be submitted in a separate closed cover.
 - 3) The General Terms and Conditions as stated above related to supply of stores / equipments / assets etc. and for specific service other terms and conditions of the Institute will apply.
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