

**INDIAN INSTITUTE OF TECHNOLOGY  
(INDIAN SCHOOL OF MINES), DHANBAD**



**Notice Inviting Tender (NIT) in Two-Bid System  
for  
Supply and Installation of Ion Chromatograph**

Tender No.: IIT(ISM)/ESE/PRJ/042/ 2018-19

Date: 7 June 2018

**Bid Submission deadline: 10.07.2018, 1:00 P.M.**

**Tender Fee: Rs. 5000/- (Rs. Five Thousand only)**

**REGISTRAR**

**Indian Institute of Technology (Indian School of Mines), Dhanbad**

**P.O. – Indian School of Mines (I.S.M.)**

**DHANBAD –826004 (INDIA)**

**[www.iitism.ac.in](http://www.iitism.ac.in)**

**GSTIN : 20AAAAI0686D1ZA**

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## **CHAPTER 1**

### **Instructions to Bidders**

IIT (ISM), Dhanbad was formerly known as Indian School of Mines (ISM) and was a Deemed University before it got converted into an Institute of National Importance under the Institutes of Technology (Amendment) Act, 2016 passed by the Parliament of India and got the assent of President of India. The Indian School of Mines, now IIT (ISM), Dhanbad, was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967, it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956 and it was renamed as Indian Institute of Technology (Indian School of Mines) in 2016. It started as an institution to impart mining education, and today, has grown into a technical institution with various academic departments. IIT(ISM) is located in the mineral-rich region of India, in the city of Dhanbad in the state of Jharkhand. It is the third oldest institute [after IIT Roorkee and IIT (BHU) Varanasi] which got converted into an IIT.

IIT (ISM), Dhanbad intends to procure the equipment “**Supply And Installation Ion Chromatograph**” to enrich its teaching and research facility at Dhanbad.

Reputed manufactures or authorized distributors are invited to submit their bid for “**Ion Chromatograph**” for IIT (ISM), Dhanbad as per this tender document in a Two-Bid System: - (a) Techno-Commercial (also termed as technical bid) bid (Part-1) consisting of all technical details of the item along with commercial terms and conditions, Tender Fee and EMD and (b) Price bid (Part-2) indicating price for their items mentioned in the technical bid. All instructions and terms and conditions must be followed, failing which bid(s) will liable to be rejected.

### **INSTRUCTIONS**

1. Offer should be submitted under TWO-BID system in two separate sealed covers i.e. “Techno-commercial bid” and “Price bid”.
2. Tender Number and tender submission deadline must be clearly mentioned on the top of the envelope.
3. a) In a tender, either the Indian agent on behalf of the principle/ OEM or the Principle/OEM itself can bid, but both cannot bid simultaneously for the same item/product in the same tender.  
b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.  
c) Indian agent/must submit authorization letter for submission of bid for this NIT from their OEM/Principle.
4. Bidder(s) must submit PAN given by Income Tax authorities, TIN, GSTIN and copy of PAN / TIN with the bid.

5. The offer must be submitted in **Two-Bid**. Tender should be dropped in the tender box kept in the office of **Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad– 826004 (Jharkhand, India)** only. Bids may be submitted by Speed Post / Courier in sealed cover only, but IIT(ISM), Dhanbad will not accept such bid if delivered/submitted to the office of the Deputy Registrar (Purchase & Stores section), IIT (ISM), Dhanbad after the submission deadline and such bids will be treated as Late bids / non-responsive bids. It will be the sole responsibility of the bidders that their bid should be submitted/ delivered as per bid submission deadline. IIT (ISM), Dhanbad will not be responsible for any delay or transit loss or late delivery of bids to the office of the Deputy Registrar. No tender is to be handed over to any staff of IIT (ISM), Dhanbad personally. All bids / correspondences should be sent to the following address only: “Deputy. Registrar (P&S), IIT (ISM), Dhanbad, P.O. – Indian School of Mines (ISM), DHANBAD – 826004 (Jharkhand, India)”. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.
6. Bid(s) must be sent sufficiently in advance so that it reaches the institute on or before the submission deadline. Bid(s) received after the submission deadline will not be considered.
7. Bid document(s) and all enclosures must contain the signature and seal of the authorised representative of the bidder.
8. The bidder quoting for item(s) as per this tender should be the registered to provide the item/services with the appropriate government authority. Copy of registration certificate should be enclosed with the tenders (part-1). Offers submitted without proper registration certificate shall be rejected summarily.
9. The bidder quoting for item(s) as per this tender should be the registered to provide the item/services with the appropriate government authority. Copy of registration certificate should be enclosed with the tenders (part-1). Offers submitted without proper registration certificate shall be rejected summarily.
10. The Bank/RTGS detail on the letter-head of the bidder(s) must be submitted along with the tenders (part-1). A copy of the cancelled cheque should also be attached.
11. Name and PAN/Voter Card No. /Aadhar No. of the authorized signatory of the bidder(s) must be mentioned in the Form 7.2.
12. A copy of PAN/Voter Card/Aadhar Card of the authorized signatory of the bidder(s) must be attached with the Form 7.2

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## CHAPTER 2

### Terms and Conditions

**The offer must comprise of the following, failing which it will be treated as non-responsive bid hence will be rejected:**

1. The bids under Two-Bid System will consist of two parts as per following details:- **a) Techno-Commercial bid (Part 1)** consisting of all technical details along with Commercial terms and conditions and EMD (Earnest Money Deposit) and Tender Cost, in the form of two separate Demand Drafts issued from any Nationalized / Scheduled commercial bank in favour of “Registrar, IIT (ISM), Dhanbad” and payable at “Dhanbad (Jharkhand, India)”, and **b) Price bid (Part 2)** indicating price for the items / services mentioned in technical bid (part-1). In stage-one, only the Techno-Commercial (Part 1) shall be opened and evaluated. In stage-two, the Price bids (Part 2) of only the technically qualified and acceptable offers will be opened, for further evaluation.
2. Sealing and Marking of Bids:
  - a) The Techno-Commercial bid (Part 1) must be sealed in a separate envelope (ENVELOPE-ONE) with Tender Cost and EMD in the form of two separate Demand Drafts, duly super-scribed as “**Techno-Commercial Bid (Part 1), Tender No.: IIT(ISM)/ESE/PRJ/042/2018-19, Submission Deadline: 10.07.2018**” as per following details: -  
**Tender Cost: Rs. 5000/- (Rs. Five Thousand only),**  
**EMD: Rs. 70,000/- (Rs. Seventy Thousand only).**
  - b) The Price bid (Part 2) should be sealed in separate envelopes (ENVELOPE-TWO), duly super-scribed as “**Price Bid (Part 2), Tender No.: IIT(ISM)/ESE/PRJ/042/2018-19, Submission Deadline: 10.07.2018**”.
  - c) The above TWO separate sealed envelopes are to be put in a bigger envelope (ENVELOPE-THREE), which should also be sealed.
  - d) Each of the above THREE envelopes MUST be super-scribed with “**Bid for SUPPLY AND INSTALLATION OF ION CHROMATOGRAPH against Tender No.: IIT(ISM)/ESE/PRJ/042/2018-19, Dated: 7 June 2018, Submission Deadline: 10.07.2018**”.
3. The bids must be neatly typed/computer printed. Hand written offer will be rejected. Bids must carry the numbers of GSTIN/ sales tax / VAT / TIN / PAN / Service Tax Registration No. Bids must be in sealed envelope.
4. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.
5. A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).
6. IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
7. Following documents have to be furnished by the bidders with the technical bids (part-1):

- (a) Self attested copies of credentials in support of capability to undertake the supply/work.
  - (b) Technical literature/catalogue with the detail specification of the material
  - (c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
  - (d) A copy of this tender document must be signed and sealed on all pages by the bidder(s) accepting the instructions and terms & conditions of the NIT and must be attached with the bid.
8. Price should be quoted on FOR, IIT(ISM) Dhanbad basis (in case of indigenous supply). In case of foreign supply, the price basis should be FOR IIT(ISM) Dhanbad basis only. The packing, forwarding, freight and transit insurance charges, if any, must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Educational discounts, if any, should be mentioned clearly. Justification of the price quoted must be provided with the Price Bid. For this, Price List of the OEM and purchase order of govt. organizations / IITs/ NITs/ CSIR Labs / ISRO labs etc. should be attached. Price bids of only technically qualified tenderers shall be opened in on a pre-notified date and time. Decision of IIT (ISM), Dhanbad in this regard will be final and binding by all the bidders. It will be the sole responsibility of bidder for custom clearance & forwarding.
9. IIT(ISM), Dhanbad is entitled for Custom Duty Exemption under Govt. of India notifications and is registered with DSIR, Govt. of India for this purpose. This may be taken into consideration while quoting minimum possible rate. It will not be issued any Indian Agent/dealer or distributor at any circumstances. IIT(ISM) will provide only custom duty exemption certificate for availing concessional custom duty. IIT(ISM) will not pay any extra custom duty other than duty exemption certificate. It will sole responsibility of the bidder to get DSIR copy from IIT(ISM) on time.
10. IIT (ISM), Dhanbad does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.
11. Tender Fee:- All bidder(s)s must have to submit a Demand Draft of required amount in the form of Demand Draft issued from any Nationalized/ Scheduled commercial Bank in favour of "Registrar, IIT (ISM), Dhanbad" payable at Dhanbad with the bid (part-1). Bid received without Tender Fee in part-1 (techno-commercial bid) will be rejected. Tender Fee is non-refundable. It must not be clubbed with Bid Security or EMD.
12. Bid Security or Earnest Money Deposit (EMD):- Required Amount for EMD must be submitted in the form of Demand Draft issued from any Nationalized/Scheduled commercial Bank in favour of Registrar, IIT (ISM), Dhanbad payable at Dhanbad with the bid (part-1). Bid received without EMD in part-1 (techno-commercial bid) will be rejected. It must not be clubbed with Tender Fee. No interest will be payable by IIT (ISM), Dhanbad on the Earnest Money Deposit. The earnest money of all the unsuccessful bidder(s) will be returned to the respective bidder(s) through bank / RTGS transfer without any interest within 60 (sixty) days only after placing the order / awarding the contract. The Earnest Money of successful bidder(s) shall be returned on receipt of Performance Security (Performance Bank Guarantee / PBG) as mentioned in this tender document. If the successful bidder(s) fails to furnish the performance security or fails to deliver/provide the item/installation/service as per the order's terms and conditions within stipulated period, the earnest money shall be liable to be forfeited by IIT (ISM), Dhanbad. An undertaking to this is to be submitted.
13. Tender Fee and EMD must be in the two separate Demand Drafts.

14. **Performance Security or Performance Bank Guarantee (PBG):-** The successful bidder(s), on whom order will be placed, has to submit a performance security of 10% of the total order value within seven days of placement of purchase order and as per PO terms before release of any payment. Performance security has to be submitted in the form of Bank Guarantee/Demand Draft from any Nationalized/Scheduled commercial Bank in favour of the Registrar, IIT (ISM), Dhanbad. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
15. **Validity Period:** - The validity period of the tender should be clearly specified. It must be at least for **270 (Two Hundred Seventy) days** from opening of price bid.
16. **Warranty:** All the active components must carry minimum three (03) years onsite comprehensive warranty from the date of satisfactory installation.
17. **Comprehensive Annual maintenance contract (AMC):** The cost of 'annual maintenance contract (AMC)' and "comprehensive maintenance contract (CMC)" should be provided separately for extension of warranty for additional years (which is beyond the normal warranty period mentioned earlier) on yearly basis as an option with the price bid. Offer including terms & conditions should be quoted on per year basis to enable purchaser make AMC for any period from 01 to 05 years, if required.
18. **Delivery & installation Period and Liquidated Damage:** As time of the essence for this procurement, hence the ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week or part thereof for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier. Earliest/ expected delivery period should be clearly indicated. Packing should be suitable for 'Air freight'.
19. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
20. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 14 days of the removal of the rejected materials/work. Failing which IIT(ISM) will dispose the materials at risk and cost of the bidder.
21. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
22. **Conditional offer will not be accepted.**

23. Payment: In case of indigenous item i.e. inside India, payment may be released through RTGS / online payment mode against complete execution of the purchase order (PO) and submission of all the required documents as per the order within 30-45 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. The invoice should be duly certified by the Head of Deptt. of IIT (ISM), Dhanbad to which supply is made or any other IIT (ISM) official authorized for this purpose. IIT (ISM), Dhanbad does not make any advance payment or part payment.
24. Advance payment will not be released. Any bid having condition of advance payment will be treated as non-responsive bid.
25. Country of origin and port of shipment must be stated in the technical bid itself in case of foreign supply. Any change at later stage will not be accepted.
26. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the bid.
27. Payment will be released through bank/ RTGS/Wire transfer. The payment will be released after statutory deductions and compensation of delay / liquidated damage (LD) / late delivery etc., if any.
28. Any payment will be released only after satisfactory completion of the work/installation and after submission the certified bill(s) / invoice(s).
29. All communications are to be addressed to the Registrar, IIT (ISM), Dhanbad quoting the Tender No. and Date.
30. IIT (ISM), Dhanbad reserves the right to accept or reject or cancel any or all tender notice or bid(s) or order(s) at any stage without assigning any reason thereof.
31. For any dispute, the place of jurisdiction shall be Dhanbad (Jharkhand, India) only.
32. It will be the sole responsibility of the bidder(s) that its bid should reach on or before the submission deadline to Registrar, IIT (ISM), Dhanbad.
33. **Governing Law:** The order, placed, will be the contract between the successful bidder(s) and IIT (ISM), Dhanbad and shall be governed by the LAWS of India and under the contract shall be taken by the parties only in Dhanbad (Jharkhand, India) to competent jurisdiction.
34. Bid(s) shall be submitted in official tender form / format only. If submitted in any other form / format, the same shall be rejected. No paper shall be detached from the tender. All pages must be numbered properly and there must be seal and sign of the bidder(s) on all the pages of its bid.
35. The name and address of the bidder(s) shall be clearly written in the space provided and no overwriting, correction, insertion shall be permitted in any part of the tender. The tender should be filled-in and submitted in strict accordance with the instructions laid down herein; otherwise the bid is liable to be rejected.



36. The bid is liable to be rejected if complete information is not given therein, or if the particulars and data (if any) asked for in the Schedule to the tender are not filled-in properly.
37. The successful bidder(s) will indemnify IIT (ISM), Dhanbad, in case of any damage or liability, which may arise on account of any act or omission directly/indirectly attributable to the bidder(s).
38. Dispute, if any arising out of providing the said service(s) shall be settled mutually or arbitration by sole Arbitrator to be appointed by the Registrar, IIT (ISM), Dhanbad at Dhanbad as per the provisions of the Indian arbitration and Conciliation Act, 1996 and the Rules framed there under. The award passed by the said sole Arbitrator, will be binding upon the parties. The arbitration proceedings shall be held at Dhanbad only.
39. The bidder shall ensure that its authorized representative should be present at the time of any discussion/presentation/negotiation at IIT (ISM), Dhanbad regarding the bid, for which no any kind of TA/DA/boarding/lodging will be facilitated by IIT (ISM) Dhanbad.
40. The schedules of items/services are required as per Chapter-4 of this tender. Bidder(s) must clearly indicate in its tenders, the different taxes and duties which they propose to charge mentioning clearly the present rate(s) thereof with appropriate reference. Vague offer like "duties as applicable" shall not be considered.
41. Price should be quoted according to the format of Price Bid (Part-2) (Chapter – 5 of this tender) only for the item(s)/services as mentioned at Chapter – 4 of this tender. The required item(s)/services to be delivered / provided on or before the dead line as per purchase order.
42. The bidder(s) should be registered with VAT/CST/SST, Income Tax/service tax authorities/GST etc. and to enclose the copies of the relevant certificate along with the technical bids. The agency must be authorized by appropriate government authority to deliver the items/services at the IIT (ISM) Dhanbad.
43. The successful bidder(s) will ensure that its employees/staff/personnel would strictly follow all the security instructions and rules and regulations of IIT (ISM), Dhanbad during their visit in the campus.
44. If the successful bidder(s) commits breach of any of the above or Order's terms and conditions or is not able to deliver the item / provide the services / complete the work on time, the contract will be cancelled and security deposit shall be forfeited and a damage liability at the discretion of IIT (ISM), Dhanbad will be imposed on the bidder(s).
45. Bills / Invoices raised by the bidder(s) will be subject to applicable statutory deductions including T.D.S.
46. Necessary corrigendum(s), if required, will be issued at any stage, which must be acceptable to the bidder(s). Any corrigendum will be published on our website [www.iitism.ac.in](http://www.iitism.ac.in) only. Bidder(s) must be in touch with our website [www.iitism.ac.in](http://www.iitism.ac.in) for corrigendum(s). It will be sole responsibility of the bidder(s) that they will go through the corrigendum(s) published, if any, on our website [www.iitism.ac.in](http://www.iitism.ac.in) and submit its tender accordingly.

47. Shortlisted bidder(s) may be called for presentation / demonstration / meeting at IIT (ISM), Dhanbad office with a short notice. Request from the bidder(s) to change the date and time of presentation / demonstration / meeting will not be accepted. If the bidder(s) will not attend for the same, then their bid(s) will be treated as non-responsive and hence the bid(s) will not be considered for further process.
48. Price bids will be opened for those bidder(s) who are shortlisted and declared as technically qualified bidder(s) by the Committee of the IIT (ISM), Dhanbad. In this regard, decision of IIT (ISM), Dhanbad will be final and binding to all the bidder(s).
49. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
50. Submission deadline / last date & time for submission of the bids and date & time for opening of the same are given in this bid. The bids will be opened as per IIT(ISM) rules. Authorized representative of bidders having authorization letter, a govt. issued ID card and an employment ID card issued by the bidder may present during bid opening at their own discretion. In case of submission deadline / last date or bid opening date is a holiday/declared as a holiday, then next working date will be the submission deadline / last date for submission/ opening of tender. However, Submission deadline or bid opening date & time will not be changed upon any request from the bidder side may be changed as per IIT(ISM) rules. In this regard, decision of the IIT (ISM), Dhanbad will be final and binding to all the bidders.
51. For the items / services, the bidders must ensure the required quality, quantity, materials, dimensions & other parameters and quote accordingly. In case items / services provided are not same as quoted/ordered, the claim for payment shall not be accepted. No payment, claims for such items / services shall be released. In this regard, decision of IIT (ISM), Dhanbad will final and binding to the bidders.
52. IIT (ISM), Dhanbad at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any stage. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
53. IIT (ISM), Dhanbad reserves the right to 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 decision of the competent authority of IIT (ISM), Dhanbad will be final and binding to the bidder(s).
54. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline.
55. Professional(s) to be deployed by the successful bidder(s) for the supply of the item / installation / execution of the work in order to provide the item(s) /service(s) as per order must be well qualified.

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**CHAPTER 3****Schedule of Requirements**

<b><u>Description</u></b>	<b><u>Details</u></b>
NIT No.	IIT(ISM)/ESE/PRJ/042/2018-19
Date of Tender	7 June 2018
Bid submission deadline	10.07.2018, 1:00 P.M.
Date of opening of the bids (technical part-1)	10.07.2018, 4:00P.M.

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**CHAPTER 4**

Sl. No.	Item	Quantity
1.	Ion Chromatograph	One

**Specification of Ion Chromatograph****Annexure-I****Specifications for Ion Chromatography System**

- 1. Specifications Sheet:** The specifications for Ion chromatograph are given in Table 1.
- 2. Ion chromatography system along with accessories:** A certificate is required from the original manufacturer (OEM) that their equipment and accessories meet all minimum specifications as given in Table 1.
- 3. Accessories:** All necessary accessories and software, required for the smooth operation of the Ion chromatograph along with accessories, should be delivered by the supplier along with the instrument. All accessories should be Original Equipment Manufacturer (OEM) make/ supplied directly by OEM and certified by OEM for smooth functioning. The list of all accessories with part number, to be supplied by the OEM, must be given.
- 4. Manual:** Printed and soft copy (CD/DVD) of all the specification sheets, product brochures and manuals related to Ion chromatograph with accessories should be supplied.
- 5. Warranty:** Total cost of supply must include three year on-site warranty including technical support (service, support and maintenance) for all equipment and accessories (within 5 business day support). The cost of repair/replacement/shipping, if any, should be borne by the supplier during the warranty period. A three year warranty certificate including technical support is required from the original equipment manufacturer (OEM) with the provision of repairing for service/support/maintenance within five days from the call from IIT(ISM) /mail informing them of the problem. If there is a delay, a penalty of Rs 5,000/- (Rs Five thousand) per week will have to be paid by the OEM/their representative. This is to avoid down time of the equipment to the minimum.  
In case the local representative of the OEM/Principal Company is replaced, a letter of commitment by the OEM/Principal Company is required stating that they or their new representative will directly cover the warranty and service the equipment as and when required as per the terms and conditions mentioned in this document. The cost of annual warranty beyond three years must be mentioned clearly.
- 6. Additional Warranty (Optional):** The cost of ‘annual maintenance contract (AMC)’ and “comprehensive maintenance contract (CMC)” should be provided separately for extension of warranty for additional years (which is beyond the normal warranty period mentioned earlier), and valid after the completion of three years.
- 7. Installation and Demonstration/Training (free of cost):** Onsite installation, testing and demonstration/training of the equipment, accessories and associated data processing software, by professional person(s), for at least 5 days at IIT (ISM), Dhanbad. All the costs

related to installation, testing, and demonstration/training (including the travel expenditure, accommodation, per diem charges etc.) to be borne by the OEM/supplier.

8. **Supply:** Price should be quoted on FOR, IIT(ISM) DHANBAD basis.
9. **Total Cost:** Total cost of the “Ion Chromatograph” should be quoted in INR incase of Indigenous supply and in Foreign Currency in case of Foreign Supply (Imported Equipment from OEM).
10. **Academic/ Education discount:** Since the equipment/instrument is meant for academic and research purposes, special discount must be given. This must be clearly mentioned in the quote.
11. **Optional (Items/Accessories and Additional features):** The cost of any additional accessories and features, which are optional in nature, may be listed separately.
12. **Important Note:** The quote should cover all the minimum specifications compulsorily. However, the OEM must certify that the equipment/instrument being supplied is the most recent one. Higher and more advanced versions with all the specifications as listed in Table 1 must be clearly mentioned. Any additional feature provided along with the instrument and included in the total cost (other than the items listed separately as optional) of the equipment may not enhance the preference for considering the quote favourably. However, if the quote is in consonance with the IIT (ISM) Dhanbad purchase rules/procedures, the OEM has to retain all the features (including additional features as a part of the total cost of the equipment) intact as per the original quotation. The cost of any additional accessories and features, which are optional in nature, must be listed separately.
13. The tender/ quotation/ offer should be valid for a minimum period of One Hundred Eighty (180) days from the date of opening the tender.
14. The bidder who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit pro forma invoice of their principals.
15. The makers/ 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.
16. **Submission of Bids:**
  - (A)The OEM or their authorized representative must submit the “Technical Bid” and the “Price Bid” in separate sealed covers. Both shall be put in a separate cover for submission.
  - (B)The Technical Bid must provide complete specification, Manufacturer’s name, address and relevant Technical Literature/Brochures with Warranty Terms and the back-up service support.
17. **Delivery Period:** As time is the essence, delivery of the equipment/instrument must be within 3 months from the date of the placement of the order or Delivery period mentioned in the Purchase Order.

**Minimum specifications for Ion Chromatography System**

Ion Chromatography system for analysis of Anions like fluoride, chloride, nitrate, phosphate, sulphate, oxyhalides like bromate, chlorite, chlorate, perchlorate, oxalate, Cyanide, speciation of arsenic (arsenite and arsenate), selenium and cations like sodium, lithium, potassium calcium, magnesium, barium, strontium by suitable detection. The system should be able to perform both suppressed and non-suppressed conductivity applications. The flow path should be of PEEK material and inert withstanding the entire pH range 0-14. The system should be equipped with data acquisition, storage, retrieval and analysis along with compatible software.

Table 1. List of components with specifications.

S.No.	Components	Specifications
1	<b>Autosampler</b>	<ul style="list-style-type: none"> <li>An autosampler should be provided for quick and accurate loading of samples and it should be fully automated</li> <li>Sequential (valves are configured to divert the sample stream to the appropriate injection valve for loading) and simultaneous (two separate analysis on one sample e.g., anions &amp; cations) configuration.</li> <li>It should provide variable injection modes (full loop, partial loop, capillary etc.) and capable of simultaneous injection.</li> <li>The auto sampler should have the facility for fraction collection, auto-dilution, concentration/ matrix elimination etc. and should be able to perform multi-point calibration using single standard.</li> <li>The autosampler should support variable sample vial capacity from 1-10 ml with minimum 30 positions for samples. The entire sample path should be metal free and is suitable for trace analysis</li> </ul>
2	<b>Pump</b>	<ul style="list-style-type: none"> <li>A high pressure pump of serial dual piston must be available in isocratic and gradient configurations.</li> <li>It should be metal free, chemically inert and compatible with aqueous eluents from pH 0-14 and reverse-phase solvents.</li> <li>Pump should automatically stop the flow in case of leaks, flow restrictions, or depleted eluent reservoir.</li> <li>Pressure range: 0-5000 psi (0-35 MPa), flow rate adjustable from 0.001 ml/min to up to 5 ml/min with accuracy <math>\pm 0.1\%</math>, precision <math>\pm 0.1\%</math>; pressure ripple <math>&lt; 1\%</math> at 1.0 mL/min. Pump should be provided with power failure protection.</li> </ul>
3	<b>Detectors</b>	<p><b>Conductivity detector</b></p> <ul style="list-style-type: none"> <li>Microprocessor based thermostat controlled digital signal processing with an accuracy of <math>\pm 0.001^\circ\text{C}</math>.</li> <li>Temperature of the conductivity block should be adjustable between <math>20^\circ\text{C}</math>-<math>50^\circ\text{C}</math>.</li> <li>Conductivity measurement range 0-15000 <math>\mu\text{S}/\text{cm}</math> or more.</li> <li>Cell volume: <math>\sim 1.0 \mu\text{L}</math> with maximum pressure 10 MPa (1500 psi).</li> </ul> <p><b>Electrochemical detector</b></p> <ul style="list-style-type: none"> <li>Microprocessor controlled digital signal processing with</li> </ul>

		<p>appropriately low noise levels.</p> <ul style="list-style-type: none"> <li>Cell and detector electronics are integrated to minimize noise, maximize electrical isolation and shielding, and maximize thermal stability.</li> <li>Electrodes: gold, glassy carbon, platinum, and silver.</li> <li>Reference electrodes: either pH-Ag/AgCl, Ag/AgCl in combination or PdH.</li> <li>Autoranging digital amperometry signal with compatible software.</li> </ul>
4	<b>Columns</b>	<ul style="list-style-type: none"> <li>Preferably micro bore columns for analyses of anions, cations, transition metals, lanthanides etc. should be individually quoted with respective guard columns and the associated ferrules and end fittings. All columns must be solvent compatible and non-corrodible components working at pH 0-14.</li> <li>The system should be able identify the columns to configure the maximum flow rate and pressure for the column.</li> <li>System should be capable to treat the turbid samples having high matrix to allow clean samples to IC system, which protects column.</li> <li>The entire setup should be controlled by software and should be automatic.</li> </ul>
5	<b>Suppressor</b>	<ul style="list-style-type: none"> <li>System should have the facility to enhance the analyte conductivity and suppress background conductivity with at least 5 years warranty.</li> </ul>
6	<b>Injector</b>	<ul style="list-style-type: none"> <li>Dual six port injector valve with fast response time.</li> <li>Sample loops should be in the range of minimum 5<math>\mu</math>L to up to 200<math>\mu</math>L or more, which can be operated through software.</li> </ul>
7	<b>Eluent Organizer (Optional)</b>	Eluent organizer with eluent bottles of 1-2 litre capacity for keeping different eluents.
8	<b>Automatic Online Eluent preparation module (Optional items &amp; to be quoted separately)</b>	<ul style="list-style-type: none"> <li>On-line eluent generator/synthesizer to generate the mobile phase of desire strength online to do ppb and ppt level analysis of cations and anions (Optional items &amp; to be quoted separately).</li> <li>IC system module should be provided precise and reliable automatic elution where the eluent is generated directly from the cartridge and the deionized water consistently and conveniently.</li> <li>Eluent cartridges should be provided and quoted separately.</li> </ul>
9	<b>Accessories &amp; Essential consumables</b>	<ul style="list-style-type: none"> <li>All important accessories like polypropylene bottles tubing, fittings, spares and eluent cartridges etc., required for smooth and complete operation of the system for at least 2 years/3000 samples (whichever is higher) should be supplied.</li> <li>Provide the list of necessary consumables for smooth running of machine for a period of minimum three years along with the cost. All accessories required for installation like Mobile</li> </ul>

		phases and solvent filtration system should be provided along with the system.
10	Necessary standard and chemicals	<ul style="list-style-type: none"> <li>All the necessary chemicals (eluent), eluent cartridges etc. and NIST certified standards of ion chromatography grade should be provided for 3 years/5000 sample and should be quoted in clear terms. Towards this, a list of all the items should be provided separately.</li> </ul>
11	Installation & Testing	<ul style="list-style-type: none"> <li>Installation &amp; testing of the equipment at site for acceptance. At least 5 day training/demonstration to be provided for the instrument at IIT (ISM) free of cost.</li> </ul>
12	Warranty charges	<ul style="list-style-type: none"> <li>Total cost of supply must include 3 (three) year onsite warranty including technical support (service, support and maintenance) for all equipment and accessories (within 5 business day support). The cost of repair/replacement/shipping, if any, should be borne by the supplier during the warranty period. A three year warranty certificate including technical support is required from the original equipment manufacturer (OEM).</li> <li>In case the local representative of the OEM/Principle Company is replaced, a letter of commitment by the OEM/Principle Company is required stating that they or their new representative will directly cover the warranty and service the equipment as and when required as per the terms and conditions mentioned in this document. The cost of annual warranty beyond three years must be mentioned clearly.</li> </ul>
13	AMC	The cost of 'annual maintenance contract (AMC)' and "comprehensive maintenance contract (CMC)" should be provided separately for extension of warranty for additional years (which is beyond the normal warranty period mentioned earlier).

**Table 2. List of other Certificates/Items to be produced by the OEM/Supplier:**

S.No.	Description	Attached (Yes/No)
1.	(i) They are the original equipment manufacturer of the equipment/instrument (base) or authorized supplier (ii) A certificate is required from original equipment manufacturer (OEM) that their equipment and accessories meet all minimum specifications as given in Table 1	
2	List of all accessories, with part number, to be supplied by the OEM is required.	
3	<b><u>A three year warranty certificate including technical and maintenance support is required from original equipment manufacturer (OEM). In case the local representative of the OEM/Principle Company changes or withdraws a letter of commitment by the OEM/Principle Company is required stating that they will directly cover the warranty and service the equipment as and when required or their new representative will cover the above mentioned services as per the terms and conditions mentioned in this document.</u></b>	



4	Hardware specifications and calibration certificates for <b><u>Ion Chromatography system</u></b> should be supplied. The documentation on specifications, calibration procedure, and results obtained should be provided.	
5	Detailed Catalogue/Data Sheet of the quoted item(s).	
6	Clientele List (in India and other countries)	
7	Performance Letter from the Clients (with in India and other countries).	
8	Approval of USEPA/ other regulatory agencies in Europe/CPCB, etc. for using this instrument for <b><u>Ion Chromatograph system.</u></b>	
9	Provide a list (at least 10) of Institutes /Organizations (IITs, IISc, NITs) along with complete contact address of concerned people where the equipment (quoted) has been supplied in India	
10	Provide latest literature citing the use of the instrument.	
11	Vendors to highlight special advantageous features about the quoted equipment.	
12	Compliance chart with respect to NIT specification, supported by catalogue and manufacturer website to be provided.	
13	All essential accessories to run the equipment to be quoted.	

**CHAPTER 5****(On the letter head of the bidder)****PRICE SCHEDULE****Price Bid (Part 2)****PRICE BID**

(Note: This price bid must be in a sealed cover and should be sealed separately from the techno-commercial bid cover.)

The bidder(s) shall quote the amount tendered/financial bids in the following format:

“Price Bid for **Supply and Installation of Integrated Ion Chromatograph** “I / We (\_\_\_\_\_ ) on behalf of M/s \_\_\_\_\_

\_\_\_\_\_ hereby undertake to provide **Supply and Installation of Ion Chromatograph** as specified in this tender and our technical bid for an amount of Rs.

\_\_\_\_\_ (in \_\_\_\_\_ words \_\_\_\_\_ Rupees \_\_\_\_\_) for

the item as in **Chapter –4**. The above quoted amount is inclusive of and in accordance with all the statutory liability, Service Charges, Administrative Charges, etc.” as applicable.

Details of the prices quoted for the various items as per technical bid are as follows: -

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			<b>Total</b>	
			GST, if any	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		<b>Grand Total</b>	

.....

\_\_\_\_\_  
Signature of the bidder(s)/authorized signatory with seal

**(To be attached with Price Bid)**

**(On the letter head of the bidder)**

**UNDERTAKING BY THE BIDDER(S)**

I have carefully gone through the various terms and conditions mentioned in the tender document of **Supply and Installation of Ion Chromatograph**. I agree to all the conditions and offer to supply the item at IIT (ISM), Dhanbad. I am making this offer after carefully reading the conditions and understanding the same. I have acquainted with all the tasks required to be carried out, before making this offer. I will abide by the corrigendum(s), if any, to be issued by IIT (ISM) Dhanbad on its website [www.iitism.ac.in](http://www.iitism.ac.in). I hereby sign this undertaking as token of our acceptance of various conditions mentioned in tender document. Justification of the price is also attached herewith.

Place: \_\_\_\_\_

Dated: \_\_\_\_\_

Name & Signature of the bidder(s):

Address: \_\_\_\_\_

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**CHAPTER 6**  
**Contract Form**

With reference to the tender reference no. **IIT(ISM) /ESE/PRJ/042/2018-19**, Dated: 7 June 2018 of IIT(ISM), Dhanbad for **Supply and Installation of Ion Chromatograph**, we (bidder(s)'s name) \_\_\_\_\_ accept all the instructions and terms and conditions of the tender and accordingly hereby submit our quotation no. \_\_\_\_\_ dated \_\_\_\_\_.

**ALL TERMS AND CONDITIONS OF THE N.I.T. ARE ACCEPTED**

1	Name and address of the bidder	
2	Telecom nos. of the bidder i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the bidder & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no./e-mail ID	

We hereby declare that all statements/details made in this tender are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect at any stage or we do not satisfy any of the stated criteria, our offer is liable to be cancelled automatically and IIT (ISM), Dhanbad may take an action against this firm for such false information including legal action.

**Signature:**

**Name:**

**Designation:**

**Bidder(s)'s Name:**

**Seal:**

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**CHAPTER 7****Form7.1- Checklist**  
**(to be submitted with technical bid part-1)**

1. Duly sealed and signed (on all pages) of the tender document.	
2. Demand draft is attached as Tender Fee	
3. Demand draft is attached as EMD.	
4. Form No. 7.4 (Techno-Commercial bid, Part-1) is attached	
5. Form No. 7.2 and 7.3 are attached with Techno-commercial bid (part-1)	
6. Details of PAN, TIN, Service Tax Registration No., GST No. etc. is attached	
7. Bank account details is attached	
8. Complete contact details (Name, Postal address, E-mail address, phone no. mobile no.) is provided	
9. Complete technical details attached	
10. The Techno-Commercial bid (Part 1) is sealed in a separate envelope (ENVELOPE-ONE) with EMD and Tender Fee in the form Demand Draft and duly super-scribed as "Techno-Commercial bid (Part 1) - Bid for Supply and Installation, Wireless LAN controller along with access points with 2 years warranty	
11. The Price bid (Part 2) is sealed in separate envelopes (ENVELOPE-TWO) and duly super-scribed as "Price Bid (Part 2) – Bid for Supply and Installation, Wireless LAN controller along with access points with 3 years warranty	
12. A copy of PAN/Voter Card/Aadhar Card including ID card of the bidder (firm) of the authorized signatory of the bidder(s) is attached with the Form 7.1	

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**Form No.: 7.2**

To,  
 The Registrar,  
 Indian Institute of Technology (Indian School of Mines), Dhanbad,  
 P.O. – I.S.M.  
 DHANBAD– 826004.

**Ref.:** Your Notice Inviting Tender No. IIT-ISM /ESE/PRJ/042/2018-19, Dated: 7 June 2018

**Sub:** Technical bid relating to **Supply and Installation of Ion Chromatograph**

Sir/ Madam,

1. I/We have gone through all Chapters of the tender document such as Instructions and Terms and conditions, minimum eligibility criteria, schedule of requirements, Specifications and allied technical details etc. as enlisted by you in your Notice Inviting Tender for the subject under reference.
2. I/We, hereby confirm that we have understood all the above and confirm my/our commitment to abide by them.
3. I/We also confirm my/our commitment to provide the services as enlisted in your Notice Inviting Tender under reference.

**Seal and Signature of authorized signatory of the bidder(s) with date →**

Documents	Yes/No	Document No. (If submitted a copy of the same)
PAN Card/Voter ID/Aadhaar Card		
Official ID Card		
Other Documents (specify below)		

(A copy of PAN/Voter Card/Aadhaar Card and official ID card of the authorized signatory of the bidder(s) must be attached with this letter.).

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**Form No.:7.3**  
**(to be submitted with technical bid part-1)**

1. Tender Fee (Non-refundable): DD NO. \_\_\_\_\_ Date: \_\_\_\_\_ Amount: Rs. Five Thousand only, Issued by bank and branch \_\_\_\_\_
2. Earnest Money Deposit: DD NO. \_\_\_\_\_ Date: \_\_\_\_\_ Amount: Rs. Fifty Four Thousand only, Issued by bank and branch \_\_\_\_\_
3. Validity of Quotation: days from the date submission deadline (minimum 240 days from the submission deadline).....
4. Performance Security or PBG: Will Be Submitted with the Performance Security (PBG), if Purchase Order placed by I.I.T. (I.S.M.), Dhanbad
5. Payment Terms: Payment after supply, satisfactory installation and submission of all required documents as per Purchase Order after statutory deductions and penalty (liquidity damage), if any as decided by I.I.T. (I.S.M.), Dhanbad.

**ALL THE ABOVE MENTIONED TERMS & CONDITIONS ARE ACCEPTED BY US AND PROFORMA IS SUBMITTED FOR CONSIDERATION.**

\_\_\_\_\_  
Signature & Seal of the Bidder(s)

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**Form No.: 7.4****TECHNO-COMMERCIAL BID (Part-1)****TECHNICAL BID**

1. Name of the Bidder(s).....
2. Name of the authorized person (who signs on the tender document on behalf of bidder(s)) with PAN/Voter Card No./Aadhar No. ....
3. Address of the Bidder(s)..... , Website .....
4. Phone No. .... (Mobile)..... Fax..... E-mail .....

**Details of the item and its specification:**

Sl. No	Particulars	Description

Name of the authorized signatory:

Name of the Bidder(s):

Contact No.:

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**Signature & Seal of the Bidder(s)**

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