

Tender Details

Tender No: SCL/PS2/2018E0105201

Tender Date: 10/07/2018

Purchase Entity: Pur_Entity2

Tender Notice

E-Procurement Tender No. SCL/PS2/2018E0105201 dated 10.07.2018. SEMI-CONDUCTOR LABORATORY [SCL] invites ONLINE offers in Two Part through e-tender portal <https://eprocure.isro.gov.in> for SITC, Validation, Demonstration and Training of a fully integrated Ion Chromatography (IC) System. Tender documents can be downloaded from 11.07.2018 - 1601 hrs. to 07.08.2018 upto 1500 hrs. The vendors need to get registered in the e-tender portal to access tender and submit their offer online. Vendors need to have Digital Signature Certificate as detailed on our e-portal and corporate e-mail ID to register on the above portal. Only online tenders will be accepted. No Manual/Postal/courier/e-mail/fax tender will be entertained. Please note Tender fee shall not be applicable for tenders submitted on-line through this portal.

Vendors interested to participate in this e-Tender are required to register themselves as vendors, if not already registered, in our e-procurement portal <https://eprocure.isro.gov.in> by downloading plugins and help demos listed on the home page of the e-procurement link mentioned above to complete the vendor registration process. They can seek help from help desk 020 25315555 / 9167969601 (Email: support.isro@nextenders.com) also the home page of e-procurement portal may be accessed for any technical help for registration and subsequent process. Vendors may please note that without registering in our E-procurement portal they will not be able to quote for this tender.

Tender Attachments

Technical Write-up/Drawings

Attachment - I:

IDT001777000000000000isro05401.pdf

Attachment - II:

Attachment - III:

Attachment - IV:

Attachment - V:

Instructions to Tenderers (PT)

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1. Interested tenderers may, at their option, login to <http://eprocure.isro.gov.in> and submit offers as per details in the tender notification.
2. Request for the extension of the due date will not be considered.
3. SCL reserves the right to accept or reject any / or all the tenders in part or full without assigning any reasons thereof. The bidder is at liberty to seek information related to bidding conditions, bidding process and/or rejection of its bid.
4. In this tender either the Indian Agent on behalf of the Principal/OEM or the Principal/OEM itself can bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorization letter obtained from their Principals/Manufacturers in their bid.

5. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the tender for the same item. If submitted, all offers submitted by the said agent shall be excluded from the procurement process.
6. The tenders of vendors who have not agreed to furnish Security Deposit and Performance Bank Guarantee as sought vide this tender shall be excluded from the procurement process.
7. The tenders of bidders where the validity of the tender is shorter than the period specified in the tender enquiry shall be excluded from the procurement process.
8. Late tenders, delayed tenders, fax quotations and e-mail quotations are not considered.
9. SCL reserves the right to verify all claims made by the bidder.
10. SCL reserves the right to change any milestone date of the tendering activity / tender schedule.
11. Tender which is not submitted in terms of instructions mentioned herein is liable to be rejected.
12. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.
13. It is expressly agreed that the acceptance of the Stores Contracted for is subject to final approval in writing by the Purchaser.
14. It is to be noted that the drawings, specifications, end-use, etc., given by the purchaser, are confidential and shall not be disclosed to any third party.
15. Prices are required to be quoted according to the units indicated in the tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
16. The Prices are to be mentioned both in figures as well as in words. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.
17. Bidders are expected to comply with commercial and other terms and conditions given in vendor specified terms of this tender. In case of any deviation, the reasons thereof should be clearly specified in the vendor specified terms column.
18. All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
19. Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.

20. Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
21. Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his bid. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
22. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.
23. The Purchaser reserves the right to place order on the successful tenderer for additional quantities up to 25% of the quantity offered by them at the rates quoted.
24. The contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually agreed to after negotiations.
25. Subletting and Assignment: The contractor/supplier cannot sublet, transfer or assign the order/Contract or any part thereof or interests therein or benefit or advantage thereof in any manner whatsoever, to any other party save with the previous written consent of the purchaser. Such consent by the purchaser, however, shall not relieve or discharge the contractor/supplier from any obligation, duty or responsibility under the Purchase Order/ Contract.
26. The contractor/supplier shall indemnify the purchaser against Workmen Compensation Act.
27. The authority of the person submitting the tender, if called for, should be produced.
28. This being a two part tender -Technical and Commercial part separate, the Technical part should not contain Pricing information. The tenders containing Price details in Technical part will be treated as unsolicited offers and rejected. Prices should be indicated in the Price Bid template only.
29. The bids shall be opened on first day of tender opening schedule as indicated in the Tender in the presence of the bidders/their authorized representatives who may like to attend the tender opening against presentation of Authorization letter.

Due to any breakdown in Server/Link, bid opening will be continued on the following dates.

The schedule of opening of Price bids shall be intimated separately to the technically qualified bidders only.

30. If tender opening date happens to be a public holiday, tender will be opened on the next working day and interested bidders may depute their representatives to attend the Tender Opening, with proper authorization.

31. PROCEDURE FOR EVALUATION OF TENDERS:

Technical Evaluation Criteria:

Vendor meeting the eligibility criteria and basic technical specifications mentioned in SCL Tender shall be considered to be technically qualified.

Evaluation of Price Bids

The following elements shall be considered for evaluation of Price Bids:

- a. Price quoted by the bidder in the price bid template for meeting the functionalities given in the Tender and Technical Specifications sheet.
- b. Compliance with the Payment Terms prescribed in this tender document. In the event, the bidder offers Payment Terms stringent than SCL prescribed Payment Terms, the bid of the bidder shall be loaded based on MCLR of SBI prevailing on the date of opening of price bids.
- c. Item wise cost of recommended spares and consumables required for one year of operation shall not be taken into account for evaluation of price bids.
- d. Post warranty comprehensive AMC for 5 years (including spares) shall not be taken into account for evaluation of price bids.

Terms and Conditions - Imported Items

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1. The Tenderers should submit the bids through e-procurement portal <http://eprocure.isro.gov.in> and complete in all respects with technical specifications, including pamphlets and catalogues.

2. The bid should contain the following information:-

a. The FCA value for import by Air Freight upto IGI Airport, New Delhi.

b. Agency Commission: Bidders are required to provide the following information in respect of their authorised Indian Agent, if any, alongwith technical bid as the same is mandatory as is required for consideration of the bid.

Name, Address, Telephone no. , fax no., email of the Indian Agent including the contact person.

A letter from the Manufacturer/supplier in the current date certifying that the said Indian Agent is their authorised Indian Agent and also indicating the responsibilities/role of the Indian Agent under the proposed purchase.

Remuneration/service charges payable to the Indian Agent under the proposed purchase.

The amount of agency commission included in the price and payable to Indian Agent of the contractor shall be paid directly to the Indian Agents by the Purchasers in equivalent in Indian rupees on the basis of an invoice from him applying TT buying rate of exchange ruling on the date of placement of the Purchase Order and which shall not be subject to any further exchange variations. The payment will be released to the Indian Agents within 30 days from the date of acceptance of the goods.

- c. The earliest delivery period and country of origin of the Stores.
 - d. Bankers name and address of the contractor.
 - e. The approximate net and gross weight and dimensions of packages/cases.
 - f. Details of any technical service, if required for erection, assembly, commissioning and demonstration as applicable.
3. The FCA prices quoted should be inclusive of all taxes, levies, duties arising in the tenderers country.
 4. The offer should be valid for a minimum period of 120 days from the due date of opening of the tender.
 5. Samples, if called for should be sent free of all charges.
 6. Bids will not be entertained after the due date and time.
 7. Offers made by Indian Agents on behalf of their Principals, should be supported by the necessary authorization letter from their Principals.
 8. The details of Import License will be furnished in the Purchase Order.
 9. The Authority of person submitting the tender, if called for, shall be produced.
 10. Instruction/operation manual containing all assembly details including wiring diagrams should be sent wherever necessary in duplicate. All documents/correspondence should be in English Language only.
 11. The Purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
 - 12 It is expressly agreed that the acceptance of the stores contracted for is subject to final approval in writing by the Purchaser.
 - 13 a. Part shipment is not allowed unless specifically agreed to by us.

b. As far as possible, stores should be dispatched by Indian Flagged Vessels/ Air India or through any Agency nominated by us.

14. Inspection/Test Certificates should be provided for the goods after testing it thoroughly at the Contractors works. If any inspection by Lloyds or any other testing agency is considered necessary, it shall be arranged by Contractors.

15. Where erection or assembly or commissioning is a part of the contract, it should be done immediately on notification. The Contractor shall be responsible for any loss / damages sustained due to delay in fulfilling this responsibility.

16. For items having shelf life / those with maximum shelf should be supplied, if order is placed.

Standard Terms and Conditions

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1. Definitions:

a) The term Purchaser shall mean the Director, Semi-Conductor Laboratory or his successors or assignees.

b) The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Contractors Successors, representatives, heirs, executors and administrators unless excluded by the Contract.

c) The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the Tender or offer of the Contractor for supply of stores of plant, machinery, Software or equipment or part thereof.

d) The term Stores shall mean all that the Contractor agrees to supply under the Contract as specified in the Purchase Order including its installation, testing and commissioning as per the specifications.

2. PRICES:

Tenders offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotations with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

3. DEMURRAGE:

Supplier shall bear demurrage charges, if any, incurred by the purchaser due to delayed presentation of shipping documents as prescribed in para 3.2 to the bankers within a reasonable time (say within 10-12

days) from the date of bill of lading for sea consignments and within 3-4 days from the date of Air Way Bill for air consignments.

4. GUARANTEED TIME DELIVERY:

The time for and the date of delivery stipulated in the Purchase Order shall be deemed to be the essence of the Contract. Delivery must be completed within the date specified therein.

5. INSPECTION AND ACCEPTANCE TEST:

5.1 The Purchasers representatives shall also be entitled at all reasonable times during manufacture to inspect, examine and test on the Contractors premises the material and workmanship of all stores to be supplied under this Contract and if part of the said stores is being manufactured on other premises, the Contractor shall obtain for the purchasers representative permission to inspect, examine and test as if the equipment were being manufactured on the Contractors premises. Such inspection, examination and testing shall not release the Contractor from the obligations under this Contract.

5.2 For tests on the premises of the Contractor or of any of his sub-Contractors, the Contractor shall provide free of cost assistance, labour, material, electricity, fuel and instruments as may be required or as may be reasonably needed by the purchasers representative to carry out the tests efficiently.

5.3 When the stores have passed the specified test, the purchasers representative shall furnish a certificate to the effect in writing to the Contractor. The Contractor shall provide copies of the test/s certificates to the purchaser as may be required.

6. PORT OF ENTRY:

New Delhi (for air shipment) / Nhava Sheva Mumbai (for sea shipment)

7. CONSIGNEE:

Purchase and Stores Officer, Stores,

8. SHIPPING MARKS.

The mark on the shipping documents such as invoice, bill of lading and on the packages should be as follow:

PURCHASE ORDER NO.

DATED

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

SEMI-CONDUCTOR LABORATORY

DESTINATION:

PORT OF ENTRY:

9. CONTRACTORS DEFAULT LIABILITY:

The purchaser may upon written notice of default to the Contractor terminate the Contract in whole or in part in circumstances detailed hereunder:

- a) If in the judgement of the Purchaser the Contractor fails to make delivery of Stores within the time specified in the Contract/agreement or within the period for which extension has been granted by the Purchaser to the Contractor.
- b) If in the judgment of the Purchaser the Contractor fails to comply with any of the other provisions of this Contract.

10. In the event the Purchaser terminates the Contract in whole or in part as provided in Contractor Default Liability, the Purchaser reserves the right to Purchase, upon such terms and in such a manner as he may deem appropriate, stores similar to that terminated and the Contractor shall be liable to the Purchaser for any additional costs for such similar stores and/or for liquidated damages for delay as defined in LD Clause until such reasonable time as may be required for the final supply of stores.

10.1. If this Contract is terminated as provided in Clause Contractor Default Liability, the Purchaser in addition to any other rights provided in this Article, may require the Contractor to transfer title and deliver to the Purchaser under any of the following clauses in the manner and as directed by the Purchaser:

- a. Any completed stores.
- b. Such partially completed stores, drawing, information and Contract rights (hereinafter called manufacturing material) as the Contractor has specifically produced or acquired for the performance of the Contract as terminated. The Purchaser shall pay to the Contractor the Contract price for completed stores delivered to and accepted, by the purchaser and for manufacturing material delivered and accepted.

10.2. In the event the Purchaser does not terminate the Contract as provided in Contractor Default Liability, the Contractor shall continue the performance of the Contract in which case he shall be liable to the purchaser for liquidated damages for delay as set out in LD Clause until the stores are accepted.

11. REPLACEMENT:

If the stores or any portion thereof is damaged or lost during transit, the Purchaser shall give notice to the Contractor setting forth particulars of such stores damaged or lost during transit. The replacement of such stores shall be effected by the Contractor within a reasonable time to avoid unnecessary delay in the intended usage of the Stores. In case the purchaser agrees, the price towards replacement items

shall be paid by the purchaser on the basis of original price quoted in the tender or as reasonably worked out from the tender.

12. REJECTION:

In the event that any of the stores supplied by the Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specifications, the purchaser shall either reject the stores or request the Contractor, in writing, to rectify the same. The Contractor, on receipt of such notification, shall either rectify or replace the defective stores free of cost to the purchaser. If the Contractor fails to do so, the purchaser may at his option either “

- a. replace or rectify such defective stores and recover the extra cost so involved from the Contractor, or
- b. terminate the Contract for default as provided under Contractor Default Liability, above, or
- c. acquire the defective stores at a reduced price considered equitable under the circumstances. The provision of this article shall not prejudice the Purchasers rights under LD Clause

13. EXTENSION OF TIME:

If the completion of supply of stores is delayed due to reason of force majeure such as acts of god, acts of public enemy, acts of Government, fires, floods, epidemics, quarantine restriction, strikes, freight embargoes, etc., the Contractor shall give notice within 15 days to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice after verification, if necessary, may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the Contract.

14. GUARANTEE AND REPLACEMENT:

- a. The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down for material, workmanship and performance.
- b. For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein are found to have developed under proper use arising from faulty materials, design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the Purchaser who shall state in writing in what respect the stores or any parts thereof are faulty.
- c. If in the opinion of the purchaser it becomes necessary to replace or renew any defective stores, such replacements or renewals shall be made by the Contractor free of all costs to the purchaser provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.
- d. Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

e. The decision of the Purchaser, notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defects has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement shall be final, conclusive and binding on the Contractor.

f. To fulfil guarantee conditions outlined in Guarantee and Replacement above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser - Bank Guarantee format enclosed) from a Bank approved by the purchaser for an amount equivalent to 10% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

g. All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of stores at purchasers site.

h. Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications, then such a specification shall apply, and in such cases, the period of 14 months referred to in Guarantee and Replacement shall be asked for guarantee period plus two months.

15. REQUIREMENT OF ADDITIONAL NUMBERS OF THE STORES/SPARE PARTS ORDERED:

The Contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually agreed to after negotiations.

16. PACKING:

a. The Contractor wherever applicable shall pack and crate all stores for sea /air shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with internationally accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail or sea for space qualified stores. The Contractors shall be responsible for all damages due to improper packing.

b. The Contractor shall ensure that each box / unit of shipment is legible and properly marked for correct identification. The failure to comply with this requirement shall make the Contractor liable for additional expenses involved.

c. The Contractor shall notify the purchaser of the date of shipment from the port of embarkation as well as the expected date of arrival of such shipment at the designated port of arrival.

d. The Contractor shall give complete shipment information concerning the weight, size, content of each packages, etc.

e. Transhipment of equipment shall not be permitted except with the written permission of the purchaser.

f. Apart from the despatch documents negotiated through Bank, the following documents shall also be airmailed to the purchaser within 7 days from the date of shipment by sea and within 3 days in case of air-consignments:

- a. Commercial Bill of Lading / Air Way Bill / Post parcel Receipt (Two non-negotiable copies)
- b. Invoice (3 copies)
- c. Packing List (3 copies)
- d. Test Certificate (3 copies)
- e. Certificate of Origin.

The Contractor shall also ensure that one copy of the packing list is enclosed in each case.

17. LANGUAGE AND MEASURES:

All documents pertaining to the Contract including specification, schedule, notice, correspondence, operating and maintenance instructions, drawings or any other writings shall be written in English language. The metric system of measurement shall be used exclusively in the Contract.

18. INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all Stores supplied against this Contract are free and clean of infringement of any patent, copyright or trade mark and shall at all times indemnify the purchaser against all claims which may be made in respect of stores for infringement of any right protected by Patent, Registration of design or Trade Mark, and shall take all risk of accident or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfilment of the Contract.

19. COUNTER TERMS AND CONDITIONS OF SUPPLIERS:

Where counter terms and conditions/printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the purchaser unless specific written acceptance thereof is obtained.

20. SECURITY INTEREST:

On each item to be delivered under this Contract, including an item of work in progress in respect of which payments have been made in accordance with the terms of the Contract, purchaser shall have a security interest in such items which shall be deemed to be released only at the time when the applicable deliverable item is finally accepted and delivered to the purchaser in accordance with the terms of the Contract. Such security interest of the purchaser shall constitute a prior charge as against any other charge or interest created in respect of such items by any entity.

21. TRAINING:

The Contractor shall, if required by the purchaser, provide facilities for the practical training of Purchasers engineering / technical personnel from India and for their active association on the manufacturing processes throughout the manufacturing period of the Contract / stores, number of such personnel to be mutually agreed upon.

22. RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

23. SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

Bid Templates

Specs. of Ion Chromatography (IC) System

Item Specifications

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1.00	Scope: Supply, installation, testing & commissioning of one no. fully integrated and microprocessor based, computer controlled ion chromatograph for detection and estimation of anions & cations in dilute & concentrated ultra high purity chemicals used in semiconductor fabrication as per specifications listed in Annexure 2 and facility to perform isocratic and gradient IC separation using conductivity detection. Ion Chromatography (IC) System will be used for trace analysis of anionic in ppb level & cationic impurities, up to ppm level.			
2.00	Application: The system should be i. compatible with ultra high pure chemicals (as listed in Annexure 2). The			

	<p>flow paths should be made of PEEK material and inert, withstanding the entire pH range 0-14.</p> <p>ii. capable of analyzing trace anionic impurities like fluoride, chloride, nitrate, phosphate, sulphate, perchlorate, silicate & borate, in ppb levels as listed in Annexure 2 in addition to other anions.</p> <p>iii. capable of analyzing cationic impurities to the extent possible in ppm level.</p> <p>iv. able to perform both suppressed and non-suppressed conductivity applications.</p> <p>v. able to perform isocratic as well as compositional-gradient analysis of the chemicals in Annexure 2.</p> <p>vi. PC based with data acquisition and system control through the same software.</p> <p>vii. equipped with a suitable suppression mechanism to lower the background conductivity for a better signal to noise ratio.</p>			
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3.10	Technical Specifications			
3.11	<p>Pump :</p> <ul style="list-style-type: none"> • Serial dual piston quaternary low/high pressure gradient pump to perform isocratic as well as compositional gradient analysis, ensuring highly constant eluent delivery. System should be upgradeable with another pump within the same enclosure in future. • Gradient profile should include Linear, convex and concave type profiles with proportionation accuracy of $\pm 0.5\%$. All the required accessories must be provided for the same. 			
3.12	Pump Flow rate range: 0.001-10 ml/min or better with an increment of 0.001 ml/min.			
3.13	Pump Flow rate accuracy: less than or equal to 0.1% or better			
3.14	Pump Flow rate reproducibility/Precision: less than or equal to 0.1% or better, from set value			
3.15	Pump Pressure Ripples/ Pulsation: less than or equal to 1% or better			

3.16	Pump Pressure Range: 0-35 MPa (0-5000 psi)			
3.20	Injector: Software controlled motorized six port injector valve with loops of size 20/25, 100, 250 & 500/1000µl. System must be upgradable with another injector in same enclosure.			
3.30	IC column: Pre-concentration/trap columns/guard columns should also be provided for the determination of anions up to parts per billion levels and cation analysis upto ppm, if required.			
3.31	<p>Column(s) required:</p> <ul style="list-style-type: none"> • General purpose anion column of length 250 mm (for Cl, F, PO4, Br, SO4, SO3, NO3, Chlorite, Hypochlorite, Chlorate, Perchlorate etc.) • General purpose cation column of length 250 mm (for Sodium, Potassium, Ammonium, Amines etc.) • Separate Column(s) for silicate and borate. 			
3.32	Column Housing: With built-in column heater and should be able to set the			

	optimal operating conditions for column operations.			
Column Housing Temperature range: Ambient +5 deg. C to 60 deg. C or better				
Column Housing Temperature stability:± 0.2 deg. C or better				
Column Housing Temperature Accuracy: ±0.5 deg. C or better				
3.40	<p>Suppressor:</p> <ul style="list-style-type: none"> • Membrane based suppressor for system using Hydroxide eluent. <p>OR</p> <p>‘Packed bed suppressor’ along with carbonate suppressor for system using carbonates based eluent.</p> <ul style="list-style-type: none"> • Separate suppressors should be quoted for anion & cation analysis upto ppb level, if required. 			
3.50	<p>Conductivity Detector:</p> <ul style="list-style-type: none"> • Micro-processor controlled with thermostat flow-cell conductivity block, Qty: 01 no. 			

	<ul style="list-style-type: none"> • Detector housing must be upgradable with other detectors in future 			
3.51	Detector Output range (conductivity): 0-15000 $\mu\text{S}/\text{cm}$			
3.52	Detector Electronic noise: ≤ 0.1 nS/cm at 1 $\mu\text{S}/\text{cm}$ level or better			
3.53	Detector Cell temperature: The user should be able to set temperature of the conductivity block in the range 20-50 deg. C or better.			
3.54	Detector Cell temperature stability: 0.001 deg. C or better			
3.55	Detector Maximum operating cell pressure: 5 MPa or higher			
3.56	Detector Linearity: 1% or better			
3.57	Detector Resolution: 0.02 nS/cm or better			
3.60	Software :Software for data acquisition & processing system along with complete system control should be offered. The necessary software should be fully Windows based with original License. The software			

	should be able to control the whole system.			
3.70	Data Work Station: Latest Factory set, branded system with 22- 23 inch full HD monitor with licensed windows, MS office standard version and Antivirus for 3 year with Printer - B/W - duplex - laser - Legal, A4 - 1200 dpi x 1200 dpi - up to 21 ppm capacity with Network Card and Bluetooth facility.			
3.81	Other Requisites : <ul style="list-style-type: none"> • Mixed/Separate standards for anions covering the entire range as mentioned in Annexure 2 for IQ, OQ & PQ. Qty: 100 ml each. • Mixed/Separate standards should also be provided for at least 5 cations like Li, Na, NH4, Ca, Mg, K, Mn etc. required for IQ, OQ & PQ. Qty: 100 ml each 			
3.82	Other Requisites :Standards, consumables / eluents for analysis of min. 300 samples (for 1 year of operation) along with the system. Qty: required for min. 300 samples			

3.83	Other Requisites : Sample filtration syringe, Qty:10 nos.			
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Specs. of Ion Chromatography (IC) System - Contd..

Item Specifications -I

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
3.84	Other Requisites :0.4 micron membrane filters for sample; qty: 1000 nos.			
3.85	Other Requisites :Vials of different sizes as per applications mentioned above,qty: 100 nos.			
3.86	Other Requisites : Micro-pipette 0.1 µL resolution i)500 µl ii)1 ml iii)2 ml Qty: 5 nos. each			
3.87	Other Requisites :Mobile phase filtration assembly along with vacuum pump;qty: 1 no.			
3.88	Other Requisites :0.4 micron membrane filters for mobile phase; qty: 1000 nos.			

3.89	Other Requisites :High purity Nitrogen cylinder with compatible regulator to make prepared eluent immune from CO2, if required by the system ;qty: 1 no.			
3.90	IQ, OQ, PQ documents:Onsite Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification (PQ) documents of instrument should be provided.			
3.91	<p>Acceptance Criteria:Equipment will be accepted based on calibration, validation & functional testing and demonstration at SCL.</p> <p>(i)Calibration for ions (cations and anions) using the standard solution is to be done by the vendor.</p> <p>(ii)Validation of the instrument should be performed during installation viz. IQ, OQ is to be performed by the vendor for acceptance.</p> <p>(iii)Sensitivity of the detector has to be shown at the time of installation.</p> <p>(iv)Vendor to support Performance Qualification</p>			

	<p>(PQ) as per the lowest limits of detection of the equipment at the time of installation.</p> <p>(v) Vendor to provide application notes / support in developing test procedures for the Anions in chemicals as per Annexure 2.</p>			
3.92	<p>Optional: Auto sampler of greater or equal to 50 positions with sample vial capacity of minimum 2 to 5 ml should be quoted along with the system. The entire set-up provided should be automatic and controlled through the software. The path should be entirely non-metallic, preferably PEEK.</p>			
4.00	<p>Other Terms & Conditions:</p>			
4.10	<p>INSTALLATION AND COMMISSIONING: Installation will be done by company/factory trained service engineer.</p>			
4.11	<p>TRAINING: Vendor to provide comprehensive training related to operation, calibration, maintenance & safety of equipment at SCL, immediate after acceptance of the</p>			

	equipment. However, vendor should also answer to the queries over phone & email whenever required.			
4.12	<p>WARRANTY:</p> <ul style="list-style-type: none"> •Vendor to provide comprehensive parts and labour warranty (excluding consumables) for a period of minimum 3 years after acceptance of the system by SCL. •List of consumable not covered under warranty shall be mentioned separately. 			
4.13	<p>POST-WARRANTY AMC:Vendor shall quote separately for post warranty comprehensive AMC for 5 years (including spares).</p>			
4.14	<p>RECOMMENDED SPARES AND CONSUMABLES:Vendor to provide itemized quote for spares and consumables for one year of operation, for reference only.</p>			
4.15	<p>TECHNICAL DOCUMENTATION:Vendor to supply hard and soft copy manuals related to operation, maintenance and schematic in English</p>			

	language.			
4.16	SAFETY:Technical documentation should include safety operating procedure.			
4.17	POWER & UTILITIES / FOOT PRINT DIMENSIONS:Single Phase, 220V + 10%, 50 Hz + 5%. Vendor to give a list of other facilities/utilities needed for installation & operation as applicable to the equipment.			

Vendor Specified Terms

Description	Vendor Terms
<p>1.1 For imported stores, prices shall be quoted on FCA nearest International airport basis.</p> <p>1.2 For indigenous stores, prices shall be quoted on F.O.R destination basis i.e. SCL, S.A.S. Nagar, Mohali, Punjab exclusive of taxes as may be applicable.</p> <p>1.3 For indigenous stores, please indicate the rate of GST /any other Govt levy as applicable.</p> <p>1.4 Purchaser is eligible for concessional CGST of 2.5 % and IGST of 5 % as per Ministry of Finance, Department of Revenue, Notification Nos. 45/ 2017 Central Tax (Rate) and 47/2017 Integrated Tax (Rate) both dated 14th November, 2017 respectively. The necessary exemption certificate will be provided by the Purchaser for the items covered under the said notification.</p> <p>1.5 The prices of the indigenous items shall also be exclusive of transit insurance which shall be arranged by the Purchaser and shall be to Purchaser account.</p> <p>1.6 For imported materials, the Purchaser is eligible to issue Customs</p>	

duty exemption certificate (CDEC) to the contractor under customs notification no.51/96 dated 23.07.1996 and subsequent amendments to enable the contractor to avail off the benefit of concessional rate of customs duty under this notification. CVD under this notification is nil. In addition to the above CDEC, any documentary support requested by the contractor from the purchaser for customs clearance of goods against the above CDEC shall be provided by the purchaser.

2. SECURITY DEPOSIT:

On acceptance of the tender, the Contractor shall submit security deposit for ten percent (10 percent) value of the Purchase Order (PO) within 15 days from the date of PO towards successful execution of the PO. Security Deposit shall be submitted through Demand Draft / Bankers Cheque/ fixed deposit receipt or Bank Guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value, and shall be valid for a period of sixty (60) days beyond the date for completion of the Purchase Order.

(This will be returned by SCL immediately on execution of the PO satisfactorily as per order terms. If not, the amount will be forfeited).

3. DELIVERY PERIOD:

The bidder shall specify the total time required for execution of the Purchase Order including supply, installation & commissioning as per the tendered specifications.

4. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of thirty six (36) months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 38

months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 38 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 36 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) PERFORMANCE BANK GUARANTEE:

To fulfil guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall furnish a Bank Guarantee (as per format given by purchaser) from any scheduled bank/ bank approved by the Purchaser for an amount equivalent to 10% of the value of the Contract and shall be valid for a period of 60 days beyond the expiry date of warranty period. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 36 months from the date of arrival of the stores at purchasers site.

(h) Even while the 36 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 38 months referred to in clause 6 (b) & (c) shall be the asked for guarantee period plus two months.

5. INSTALLATION, COMMISSIONING AND TRAINING:

5.1. Installation as per Purchasers tendered specifications shall be carried out by the Contractor/factory trained service engineer at Purchasers site at S.A.S. Nagar, Punjab, India at no extra cost to the purchaser. The contractor shall provide in advance guidelines for preparation of the installation site and list of items to be supplied by the Purchaser during installation. On receipt of intimation from the Purchaser, the Contractor shall depute its engineer(s) to the Purchasers site to carry out installation and commissioning and will demonstrate the functionality of the tendered equipment to Purchasers specifications as per the Scope of Installation, Testing and Commissioning and Acceptance Criteria given in Technical specifications sheet. The Contractor shall be responsible for any loss/damages sustained due to delay on the part of the Contractor to send its engineer for installation and commissioning.

5.2. TRAINING:

The vendor shall provide on-site comprehensive training to the concerned SCL personnel as specified in the tender specifications.

6. SUPPLY OF SPARES AND SERVICES:

The contractor shall guarantee supply of spares and services support for a period of at least Ten (10) years post installation of the equipment. In the event of breach of this commitment on the part of the Contractor, Purchaser reserves the right to take appropriate measures including legal action claiming suitable compensation etc.

The bidder shall also quote for the following:

- i) Itemized quote for recommended spares and consumables required for one year of operation.
- ii) Post warranty comprehensive AMC charge (including spares) for five years.

The quote for the above shall be uploaded as a separate pdf file under tab Supporting documents from vendors (Commercial).

(However it may please be noted that prices of items at Sr. No. i) to ii) above are for reference purpose only and shall not be considered for

commercial evaluation of bids).	
<p>7. NEW MACHINE CERTIFICATE:</p> <p>The contractor shall submit a certificate alongwith the equipment as well as with the documents for claiming payment indicating the date of manufacture and certifying that the equipment supplied is brand new equipment and not used/refurbished/ remanufactured/reconditioned equipment.</p>	
<p>8. TERMS OF PAYMENT IN CASE OF OVERSEAS SUPPLIER[S]:</p> <p>8.1 Being a Department of the Government of India, the normal terms of payment are by Sight Draft. The payment shall be remitted as under:</p> <p>90% of the value of the materials supplied shall be paid within 30 days of the receipt of the materials at purchaser site and the balance 10% amount shall be payable on successful installation, commissioning and acceptance of the equipment at Purchaser site against an Acceptance Certificate to be issued by the Purchaser.</p> <p>8.2 While the purchasers bank charges shall be borne by the purchaser, the contractor shall bear the bank charges payable to his banker.</p>	
<p>9. TERMS OF PAYMENT IN CASE OF INDIGENOUS SUPPLIER[S]:</p> <p>90% of the value of the materials supplied shall be paid within 30 days of the receipt of the materials at purchaser site and the balance 10% amount shall be payable on successful installation, commissioning and acceptance of the equipment at Purchaser site against an Acceptance Certificate to be issued by the Purchaser.</p> <p>While the purchasers bank charges shall be borne by the purchaser, the contractor shall bear the bank charges payable to his banker.</p>	
10.1. ADDRESS OF INDIAN AGENT, if any	

<p>10.2. PERCENTAGE OF AGENCY COMMISSION, if any</p>	
<p>11. VALIDITY:</p> <p>The tender must be valid for a minimum period of 120 days from the date of opening of bids.</p>	
<p>12. MODE OF DESPATCH:</p> <p>Generally, stores should be despatched through Indian Flagged Vessel / Air India or through any other Agency nominated by the purchaser whose contact details shall be indicated in the purchase order.</p> <p>A copy of the invoice and packing list should invariably be kept inside each of the packages.</p>	
<p>13. INSURANCE OF THE STORES:</p> <p>Insurance wherever necessary, will be arranged by the Purchaser. The necessity or otherwise of insurance will be as indicated in the Purchase Order/Contract.</p>	
<p>14. TECHNICAL DOCUMENTATION:</p> <p>The vendor shall provide Soft copy of technical documentation covering operation, maintenance and schematic as specified in the technical specifications.</p> <p>Technical documentation shall include safety operating procedure.</p> <p>All documentation shall be in English language only.</p>	
<p>15. DELAY IN COMPLETION/LIQUIDATED DAMAGES:</p> <p>If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the purchaser shall recover</p>	

<p>from the Contractor as liquidated damages a sum of one-half of one percent (0.5 percent) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10percent) of the Contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.</p> <p>Delivery of stores shall be complete on Installation, commissioning, Testing and Acceptance.</p>	
<p>16. PACKING & FORWARDING:</p> <p>The Contractor shall pack and crate all stores for air/sea/road shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with internationally accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail, air or sea. The Contractors shall be responsible for all damages due to improper packing.</p>	
<p>17. ARBITRATION:</p> <p>If at any time any question, dispute or difference whatsoever shall arise between the purchaser and the Contractor upon or in connection with this Contract, either party may forthwith give to the other notice in writing of the existence of such question, dispute or difference and the same shall be referred to the adjudication of two arbitrators, one to be nominated by purchaser, other by a Contractor and in the event of any difference of opinion, the arbitrators will refer the matter to the umpire. The arbitration shall be conducted in accordance with the rules and procedure for arbitration of the International Chamber of Commerce at Paris. The expenses of the arbitrators and umpire shall be paid as may be determined by them. However, the venue of such arbitration should be in India.</p> <p>In case of dispute arises with domestic/Indian suppliers, the applicable Arbitration procedure shall be as per Indian Arbitration & Conciliation Act, 1996.</p>	

18. APPLICABLE LAW: The Contract shall be interpreted, construed and governed by the laws of India.	
19. Any Other Term:	

Supporting Documents from Vendor

Attachment - I:

Attachment - II:

Price Bid Form

Item Description	Slab Range	Qty	UOM	Currency	Unit Price
Supply, Installation, Commissioning, Validation Testing, Demonstration and Training of a fully integrated Ion Chromatography (IC) System .SCL Material Code: 210511853	-	1	No.	-	-

Break-up of other taxes and other costs should be specified in respective narration columns.

Sum of these Break-up values should be specified in respective value columns.

Supporting Documents from Vendor (Commercial)

Document attachment with price bid

Attachment - I:

Attachment - II: