



सेमी-कंडक्टर लेबोरेटरी/Semi-Conductor Laboratory
अंतरिक्ष विभाग, भारत सरकार/Government of India, Department of Space
सेक्टर-72, सा.अ.सि.नगर(मोहाली) -160071, चंडीगढ़ के समीप(पंजाब) भारत
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निविदा सूचना संख्या. एससीएल/पीटी/202
TENDER NOTICE No. SCL/PT/202

दिनांक / Dated: 29.07.2021

निदेशक, एससीएल के लिए एवं उनकी ओर से प्रमुख क्रय एवं भण्डार, सेमी-कंडक्टर लेबोरेटरी के लिए दो भागों में निम्न निविदाएं आमंत्रित करते हैं।

For and on behalf of The Director, Head-Purchase & Stores, Semi-Conductor Laboratory (SCL) invites TWO part Domestic Public Tender/s for the following:

क्र.सं. Sr. No.	निविदा संख्या Tender Number	विवरण/ Description	यूओएम/UOM	संख्या/ Quantity
1.	एससीएल/क्रय यूनिट-1 एससी 202100000301 SCL/Pur Unit -1/SC2021000003	इंडेक्टिवली युग्मित प्लाज्मा - मास स्पेक्ट्रोमापी की खरीद हेतु Procurement of Inductively Coupled Plasma- Mass Spectrometer	संख्या/Nos.	01
पूर्व निविदा बैठक की तिथि एवं समय Date and Time of Pre Bid Meeting		09.08.2021 को/ at 12:00 बजे/ hrs (IST) onwards		
निविदा स्पष्टीकरण की नियत तिथि : Bid Clarification Due Date		12.08.2021 तक/at 1600बजे/ hrs (IST)		
निविदा प्रस्तुति शुरू करने की तिथि : Bid Submission Start Date :		12.08.2021 तक/at 1601 बजे/hrs (IST)		
निविदा प्रस्तुत करने की नियत तिथि : Bid Submission Due Date :		27-08-2021 तक/at 12:00बजे/ hrs (IST)		
निविदा खुलने की तिथि : Bid Opening Date :		27-08-2021 तक/at 12:01बजे/hrs (IST)		

नोट/Note:

निविदा दस्तावेज को ई-टेंडर पोर्टल <https://eproc.vssc.gov.in> / एससीएल की वेबसाइट www.scl.gov.in / इसरो की वेबसाइट www.isro.org.in /सीपीपी पोर्टल (<http://eprocure.gov.in>) से देख/डाउनलोड कर सकते हैं।
Tender Documents can be accessed/downloaded from e-tender portal <https://eproc.vssc.gov.in> / SCL website (www.scl.gov.in) /ISRO website (www.isro.gov.in)/ CPP Portal (<http://eprocure.gov.in>).

प्रमुख, क्रय एवं भंडार प्रभाग / Head, Purchase & Stores Division

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
SEMI-CONDUCTOR LABORATORY (SCL)
CHANDIGARH**

Tender for Supply, installation and commissioning of Inductively coupled plasma with triple quadrupole mass spectrometer

Bids to be submitted online

Tender No.: SCL/PurUnit -1/SC202100000301 dated 29-07-2021

A. Tender Details

Tender No :	SCL/PurUnit -1/SC202100000301
Tender Date :	29-07-2021
Tender Classification:	GOODS
Purchase Entity :	PurUnit -1
Centre :	SEMI-CONDUCTOR LABORATORY (SCL)

Procurement of Supply, installation and commissioning of Inductively coupled plasma with triple quadrupole mass spectrometer

1.SEMI-CONDUCTOR LABORATORY [SCL] invites ONLINE offers in TWO part system through e-tender portal <https://eproc.vssc.gov.in> for Supply, Installation and Commissioning of Inductively Coupled Plasma - Mass Spectrometer. The vendors need to get enrolled 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.

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://eproc.vssc.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 and 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.

2.In case bidder encounters any technical snag pertaining to e-procurement system while acting on the tender, computer screen shot of the error message with date time stamp on the web-browser along with the query shall be e-mailed by the bidder to the help desk, for resolution of the problem, at least 2 working days before the due date and time of bid submission. The contact detail of the help desk is available on the home page of the e-procurement website.

Purchaser will make all efforts to resolve technical queries reported by the bidders but will not be bound to do so if the problems are reported beyond the time mentioned above. Purchaser will not be responsible for non-submission of bids for such cases.

The time taken to ascertain, evaluate and suggest a solution for the problem reported by bidder may

vary from case to case. Hence bidders are advised to submit the bid well in advance before closing date and time to avoid last minute issues. Any issues or problems shall be communicated before 48 hours of closing date and time of bid submission. Any issue reported with less than 48 hours are not binding on the Purchaser i.e SCL.

A.1 Tender Schedule

Tender Publish Date : 29-07-2021 11:00

Bid Clarification Due Date : 12-08-2021 16:00

Bid Submission Start Date : 12-08-2021 16:01

Bid Submission Due Date : 27-08-2021 12:00

Bid Opening Date : 27-08-2021 12:01

Price Bid Opening Date : 13-09-2021 12:00

A.2 Pre-bid Meeting Details

Date : 08-08-2021 11:00

Place : Semi-Conductor Laboratory

Location : Sector-72, S.A.S. Nagar-160 071, Punjab (India)

**Centre : SEMI-CONDUCTOR LABORATORY (SCL),
CHANDIGARH, PUNJAB**

Pre Bid Meeting on Site Visit

A Pre-bid conference shall be held with the prospective bidders as per schedule given in the Tender at Semi-Conductor Laboratory, S.A.S. Nagar (Mohali), Punjab, India to clarify issues regarding the specifications and other associated technical details of the subject procurement. The prospective bidders must, therefore, ensure that they or their authorized representatives attend the said pre-bid meeting at SCL as per the given schedule.

Details :

In order to enable meaningful discussions in the Pre-bid conference, the prospective Bidders are requested to list the queries/clarifications planned to be sought by them on this Tender in the Pre-bid conference, in a Query Sheet and send to us the said Query Sheet in advance to reach us at least one day before the Pre-bid Conference.

Please note that Tender of a firm who has not attended the Pre-bid conference shall be disqualified.

In the event where the vendor is unable to attend the Pre-Bid Conference physically, a Pre-Bid Conference through Video Conference / Skype / Conference Call shall be arranged by SCL upon the request from the vendor(s).

B. Tender Attachments

Technical Write-up/Drawings

Document : Specifications

Instructions To Vendors

2. INSTRUCTIONS TO TENDERERS:

1. Bid shall be submitted online only complying to specified tender schedule.
2. EGPS being electronic system, system will not permit late and delayed tenders. Late tenders and delayed tenders will not be considered.
3. GST and/or other duties/levies that are legally leviable and intended to be claimed should be distinctly shown in the tender for our evaluation apart with basic cost.
4. 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 tenderers shall supply the same at the rates quoted.
5. The authority of the person signing the tender, if called for, should be produced.
6. In case of any difference between General Terms & Conditions enclosed and Terms & Conditions specific to this tender i.e. technical specifications & Vendor Specified Terms, the terms and conditions specific to this tender will prevail.
7. Vendors shall not be allowed to modify or alter or make changes to their bids after the closing date and time for Tender Download & bid submission. Also any changes communicated for closing date & time of bid submission shall not be accepted.

3. TERMS CONDITIONS OF TENDER TENDERERS:

1. DEFINITIONS:

- (a) The term PURCHASER shall mean the President of India or his successors or assigns.
- (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, representative, heirs, executors and administrators unless excluded by the Contract.
- (c) The term STORES shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants machinery and subsequent testing, should such a condition is included in the Purchase Order.
- (d) 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 or plant, machinery or equipment or part thereof.

2.PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation 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 variation/s.

3.ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractors own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they shall be rejected.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 7 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4.REJECTED STORES:

Rejected stores will remain at destination at the Contractors risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractors address at the Contractors entire risk and expense, freight being payable by the Contractor at actuals.

5.DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorize the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under subclause (ii) (iii) of clause 5 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the repurchase or if there is an agreement to repurchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such repurchase made against default. The manner and method of such re purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

6. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchasers right to recover liquidated damages. The purchaser reserves the right to reject or accept the vendors request for extension of time.

7. ERECTION OF PLANT MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

8. 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.

9. 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 Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfilment of the contract.

10. COUNTER TERMS AND CONDITION 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.

11. 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.

12. In case bidder encounters any technical snag pertaining to e-procurement system while acting on the tender, computer screen shot of the error message with date time stamp on the web-browser along with the query shall be e-mailed by the bidder to the help desk, for resolution of the problem, at least 2 working days before the due date and time of bid submission. The contact detail of the help desk is available on the home page of the e-procurement website.

Purchaser will make all efforts to resolve technical queries reported by the bidders but will not be bound to do so if the problems are reported beyond the time mentioned above. Purchaser will not be responsible for non-submission of bids for such cases.

The time taken to ascertain, evaluate and suggest a solution for the problem reported by bidder may vary from case to case. Hence bidders are advised to submit the bid well in advance before closing date and time to avoid last minute issues. Any issues or problems shall be communicated before 48 hours of closing date and time of bid submission. Any issue reported with less than 48 hours are not binding on the Purchaser i.e SCL.

4. Instruction to Tenderers (Public Tender)

1. This being a two part tender i.e. Technical and Commercial part separate, the Technical part should not contain Pricing information of the Tendered stores. The tenders containing Price details of the Tendered stores in Technical part will be summarily rejected. Prices should be indicated in the Price Bid template only.

2. Interested tenderers may, at their option, login to <https://eproc.vssc.gov.in> and submit offers as per details in the tender notification.

3. Pre-Bid Conference:

A Pre-bid conference shall be held with the prospective bidders as per schedule given in the Tender Notification at Semi-Conductor Laboratory, S.A.S. Nagar (Mohali), Punjab, India to clarify issues regarding the specifications and other associated technical details of the subject procurement. The prospective bidders must, therefore, ensure that they or their authorized representatives attend the said pre-bid meeting at SCL as per the given schedule.

In order to enable meaningful discussions in the Pre-bid conference, the prospective Bidders are requested to list the queries/clarifications planned to be sought by them on this Tender in the Pre-bid conference, in a Query Sheet and send to us the said Query Sheet in advance to reach us at least one day before the Pre-bid Conference.

Please note that Tender of a firm who has not attended the Pre-bid conference shall be disqualified.

In the event where the vendor is unable to attend the Pre-Bid Conference physically, a Pre-Bid Conference through Video Conference / Skype / Conference Call shall be arranged by SCL upon the request from the vendor(s).

4. Request for the extension of the due date will not be considered.

5. 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.

6. SCL reserves the right to exclude the bidder from procurement process who have not agreed to furnish Security Deposit and Performance Bank Guarantee as sought vide this tender.

7. In case the bidder gives shorter validity than the period specified in the tender enquiry. SCL reserves the right to exclude the bidder from procurement process.

8. Late tenders, delayed tenders, fax quotations and e-mail quotations are not considered. Only tender submitted through ISRO e-procurement portal shall be 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 as per the 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 wherever required 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 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.

24. 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 without 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.

25. The contractor/supplier shall indemnify the purchaser against Workmen Compensation Act.

26. The authority of the person submitting the tender, if called for, should be produced.

27. In case of Public Tender, the bids shall be opened in the presence of the bidders/their authorized representatives who may like to attend the tender opening against presentation of Authorization letter. In case of 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.

28. PROCEDURE FOR EVALUATION OF TENDERS:

Technical Evaluation Criteria:

Vendor meeting the eligibility criteria and basic technical specifications mentioned in SCL Tender are likely to 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 is 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.
- c. Post warranty AMC charges and cost of recommended spares and Consumables shall not be taken into account for evaluation of price bids.

C. Bid Templates

C.1 Technical Bid - Supply, installation and commissioning of Inductively coupled plasma with triple quadrupole mass spectrometer

1. INDUCTIVELY COUPLED PLASMA - MASS SPECTROMETER, SCL Code: 210516291

Document : NAC approval

Document : Specifications

Document : Indent

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
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1	Inductively coupled plasma with Triple Quadrupole Mass Spectrometer	Supply, Installation and Commissioning of Inductively coupled plasma with Triple Quadrupole Mass Spectrometer system capable of doing elemental analysis accurately and precisely from trace and ultra-trace (ppm, ppb, & ppt) levels in different types of materials like inorganic samples, organic samples/solvents, ultrapure concentrated acids etc. The equipment should be quoted with all necessary accessories required for analysis of higher concentration (without dilution) to trace and ultra trace level for determination of elements, with mass range 2-275 amu or better, of various sample types. The system must have the capability to run in single quadrupole as well as triple quadrupole mode.	Yes / No / Explain		
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2	Eligibility Criteria:	<p>Parties fulfilling the following requirements are eligible to participate in the tender.</p> <p>a) Parties should be OEM (Original Equipment Manufacturer) having experience of minimum Five years in the manufacturing, installation and maintenance support of Inductively Coupled Plasma-Mass Spectrometer.</p> <p>b) Should have supplied, installed and commissioned successfully ICP-MS in reputed R & D organizations(s)/ academic institute(s) during the last five (5) years. The vendor shall provide list of their installations along with details of the user and year of installation.</p>	Yes / No / Explain		
3	Purpose:	<p>The typical requirement of equipment includes, but not limited to quantification of trace level metallic impurities in ultrapure chemicals used for electronic fabrication viz. Solvents, photoresists, CMP slurries, etchants, ultrapure acids, hydroxides, H₂O₂ and metallic impurities in gases. Detailed specifications are as follows:</p>	Yes / No / Explain		

4	1. Sample introduction system:	<p>a) Peristaltic Pump: Minimum 3 channel Computer controlled low pulsation peristaltic pump with automatic start and stop.</p> <p>b) Injector: Injectors must be suitable for concentrated acids, HF, aqueous sample, organic solvents and corrosive chemicals. Injector made of suitable materials with different diameters should be supplied, if required.</p> <p>c) Nebulizer: Concentric nebulizers made of suitable material for the analysis of concentrated acids, HF, aqueous sample, organic solvents and corrosive chemicals.</p> <p>d) Spray chamber: Peltier cooled (-5 °C to 20 °C) spray chamber made of Quartz/PFA suited to handle different types of samples viz. concentrated acids, HF, aqueous sample, organic solvents and corrosive chemicals</p> <p>e) Matrix tolerance (Total Dissolved Solid): Accessories should be supplied to handle samples with high TDS (at least up to 25% TDS).</p> <p>f) HF kit: Dedicated HF kit must be offered with separate injector, nebulizer, torch, spray chamber, tubing set with one set of platinum cones other than the standard supply.</p>	Yes / No / Explain		
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5	2.RF Generator and plasma torch	<p>a)RF generator: Computer controlled solid state RF generator, with variable-frequency impedance matching capability.</p> <p>b)Power range: 500 - 1600 watts or better</p> <p>c)RF Generator Frequency: 27 mHz or 40 mHz</p> <p>d)Plasma torch: should have provision for fully automated X-Y-Z torch alignment through software.</p>	Yes / No / Explain		
6	3.Ion extraction interface:	<p>Minimum double cone (sample cone and skimmer cone) ion extraction interface with suitable focusing mechanism. The cone materials (nickel/platinum) should be capable of handling all types of samples viz. concentrated acids, HF, aqueous sample, organic solvents and corrosive chemicals. Universal cone interface should be there for analyzing high matrix and high sensitivity sample.</p>	Yes / No / Explain		

7	4. Quadrupole system/mass analyser and collision reaction cell	<p>a) Triple quadrupole system (in compliance with IUPAC) comprising two transmission quadrupole mass spectrometers in series with a (non selecting) RF-only quadrupole between them to act as a collision cell. First and third quadrupole should have same resolution with true unit mass filtering capability.</p> <p>b) The system must have the capability to run in single quadrupole as well as triple quadrupole mode.</p> <p>c) System should incorporate Collision and reaction Cell for efficient removal of isobaric and polyatomic interference.</p> <p>d) Mass range 2-275 amu or higher</p> <p>e) No gas mode detection limits Detection Limit: low mass (9Be <0.5 ppt), mid mass (115In <0.1 ppt), low mass (209Bi/238U <0.1 ppt)</p> <p>f) Sensitivity (Mcps/ppm): low mass (at element of atomic mass <10 amu) >15; mid mass (at element of atomic mass range 80-120 amu) >300; high mass (at element of atomic mass >200 amu) >300</p> <p>g) Precision: 3% RSD or better</p> <p>h) oxide and doubly charged species (%) CeO⁺/Ce⁺: <2.0; Ce⁺⁺/Ce⁺: <4.0</p> <p>i) background signal <1 cps</p> <p>j) Isotope ratio precision (107Ag/109Ag): 0.2% RSD or better.</p> <p>k) Scan speed: >3700</p>	Yes / No / Explain		
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		amu/sec or better at minimum 40 intervening masses.			
8	5.Detector:	The detector must be a dual mode Discrete Dynode Electron Multiplier which can allow element concentration calibration over full 10 or higher orders of magnitude of true linear dynamic range.	Yes / No / Explain		
9	6.Ion optics and vacuum system:	Required vacuum to be achieved using suitable turbomolecular pumps & oil-free roughing pumps. Entire vacuum systems including pumps & hose, must be chemically inert and enough resistant to highly corrosive acids and chemicals.	Yes / No / Explain		
10	7.Auto sampler:	At least 30 sample port auto sampler integrated with ICP-MS software. It should be capable to inject sample, tune solution, internal standards as per the standard operating procedure for complete automation of the analysis.	Yes / No / Explain		

11	8.Software	<p>a)User-Friendly software that guides through method and sequence development/method development templates for rapid development of commonly used methods. It should include all the features and latest libraries required for the analysis.</p> <p>b)Ability to quantitative analyze any possible combination of isotopes</p> <p>c)Provision for editable interference correction equations</p> <p>d)The ability to reprocess data simultaneously with on-line data acquisition of ICP-MS</p> <p>e)The Software must be able to control all the required parameters necessary to operate ICP-MS instrument with accessories.</p> <p>f)Multi analytic determination of nano-particles in sample, S/W must allow calculations for diameter and concentration estimation.</p> <p>g)The application software is to have the facility of graphic display, calibration, addition and subtraction of spectra, multiple data acquisition, multiple data plotting, overlap line correction, background correction, mathematical spectral fitting curve, generation of statistical data like repeatability, mean value, standard deviation, relative standard deviation, mean detection limit etc on analytical</p>	Yes / No / Explain		
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		<p>results,</p> <p>h)Capable of generating analysis report in various formats.</p> <p>i)Free upgradation for the life time of equipment.</p> <p>j)Software should be provided with one additional license for offline data processing</p>			
12	9.Computer and other accessories	<p>a.Factory configured computer with latest i7 processor or better, with minimum 8 GB ram, 256 GB SDD and 1 TB HDD, 24 inches monitor or better configuration.</p> <p>b.Ergonomically designed powder coated metallic table with granite top for ICP-MS and computer for easy operation, with storage shelf/drawer under the top.</p>	Yes / No / Explain		
13	10.Standards and Tune solution:	Vendor should provide tune solution for the calibration of the machine; qty: 100 ml (minimum) in seal pack. Calibration standards for all the cations listed in annexure 2 should be provided, qty: 100 ml (min) in seal pack.	Yes / No / Explain		
14	11.Gases (in industrial cylinders, 40-50L w/c):	<p>Following high purity gases with cylinder and valves suitable for analysis as per the equipment manufacturer (OEM) recommendations:</p> <p>Argon, 5N: 8 nos. of cylinders</p> <p>Helium, 5N: 1 no. of cylinder</p> <p>Oxygen, 5N: 1 no. of cylinder</p> <p>Hydrogen, 5N: 1 no. of cylinder</p> <p>Ammonia, 5N: 1 no. of cylinder</p>	Yes / No / Explain		

15	12.Regulator & Gauges and other accessories:	<p>Gas regulators, gauges, purification system including gas distribution & purification line for all gases with tubing should be provided as per the following specifications:</p> <p>(a) Regulators, Valves & Gauges: SS316L double stage high purity regulator with gauges for cylinders & manifold; internal surfaces should be electro-polished (Ra: 10 or better). Additional gauge & shut off valve, 1 set for each gas line to be installed near to the equipment shall be provided by vendor. Items should of reputed brands viz. AP Tech or Swagelok or Rotarex or Parker or Carten or Concova with VCR connection and fittings at inlet & outlet ports.</p> <p>(b) Gas line: gas lines from cylinder to equipment should be made of SS316L with internal surface electro-polished with Ra 10 or better.</p> <p>(c) Gas Purifiers: vendor to provide absorber based purifier for each gas line of reputed brand viz. Entegris or John Matthey or VICI.</p> <p>(d) Gas manifold: Gas manifold for connecting 4 Argon cylinders.</p> <p>(e) All the required fittings & connection lines from gas cylinders to equipment must be provided by vendor.</p>	Yes / No / Explain		
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16	13.Consumables for operation:	<p>other than standard supply, following consumables should be provided.</p> <p>a)Quartz torch; qty: 1 no.</p> <p>b)Injector; qty: 1 no.</p> <p>c)platinum sample cone and skimmer cone; qty: 1 no.</p> <p>d)nickel sample cone and skimmer cone; qty: 1 no.</p> <p>e)nebulizer; qty: 1 no.</p> <p>f)spray chamber; qty: 1 no.</p> <p>g)auto sampler probe and complete tubing; qty: 1 set</p> <p>h)Auto sampler vial; qty: 500 nos.</p> <p>i)O-rings, ferrule and fittings; 2 sets</p> <p>j)peristaltic pump tubing; 1 pack</p> <p>k)PFA nebulizer, spray chamber, connecting pipe, inert torch base, suitable injector & tubing for HF analysis; 1 set each.</p> <p>Other then the listed item, essential consumables if any, should be quoted separately.</p>	Yes / No / Explain		
17	14.Other terms and conditions		-		
18	a. INSTALLATION AND COMMISSIONING	Installation & Commissioning will be done by company/factory trained service engineer.	Yes / No / Explain		

19	b. ACCEPTANCE	<p>System would be accepted based on functional testing & demonstration against certified reference/standard as below:</p> <p>i) Validation viz. IQ, OQ of the instrument should be performed during installation by the vendor for acceptance and relevant document should be provided.</p> <p>ii) Sensitivity & detection limit should be demonstrated at the time of installation.</p> <p>iii) Vendor to support Performance Qualification (PQ) for the chemicals given in annexure-2. This includes technical support and application notes in developing test procedures for analysis of trace impurities in chemicals.</p>	Yes / No / Explain		
20	c. TRAINING	<p>Vendor to provide comprehensive training related to operation, calibration, maintenance & safety of equipment at SCL, immediate after acceptance of the equipment. However, vendor should also answer to the queries over phone & email whenever required.</p>	Yes / No / Explain		
21	d. WARRANTY:	<ul style="list-style-type: none"> • Warranty for a period of minimum 3 year after acceptance of the system by SCL. Vendor shall carry out preventive maintenance at least once in a year and for breakdown as may be required during warranty period. • List of consumable not covered under warranty shall be mentioned separately. 	Yes / No / Explain		

22	e. POST-WARRANTY AMC	Vendor shall quote separately for post warranty comprehensive (labour & parts) AMC for 5 years, for reference purpose only.	Yes / No / Explain		
23	f. RECOMMENDED SPARES AND CONSUMABLES	Vendor to provide itemized quote for spares and consumables for one year of operation, for reference only.	Yes / No / Explain		
24	g. SPARE AND MAINTENANCE SUPPORT	Vendor to provide spare & maintenance support for minimum 7 years after expiry of warranty period.	Yes / No / Explain		
25	h. TECHNICAL DOCUMENTATION	Vendor to supply hard and soft copy manuals related to operation, maintenance and schematic in english language.	Yes / No / Explain		
26	i. SAFETY	Technical documentation should include safety operating procedure.	Yes / No / Explain		
27	j. POWER & UTILITIES / FOOT PRINT DIMENSIONS:	Single Phase, 230V \pm 10%, 50 Hz \pm 5%. Vendor to give a list of other facilities/utilities needed for installation & operation as applicable to the equipment.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Supporting Documents for Quoted Specifications

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	<p>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 summarily rejected.</p> <p>The prices should only be quoted in Price Bid template and supporting documents from the vendor (Commercial).</p>	Yes / No / Explain	
2	<p>Eligibility Criteria: Vendors fulfilling the following requirements are eligible to participate in the tender:</p> <p>(a)Vendors should be ORIGINAL Equipment Manufacturer (OEM) having experience of minimum five years in the manufacturing, installation and maintenance support of Inductively Coupled Plasma Mass Spectrometer.</p> <p>(b)Vendors should have supplied, installed and commissioned successfully ICP-MS in reputed R & D organization(s) / Academic Institute(s) during the last five (5) years. The vendor shall provide list of their installations along with details of the user and year of installation.</p>	Yes / No / Explain	
3	<p>Delivery Terms: Prices shall be quoted on F.O.R. destination basis i.e. SCL, S.A.S. Nagar, Mohali, Punjab, INDIA exclusive of GST as may be applicable.</p>	Yes / No / Explain	

4	<p>GST: Purchaser is eligible to issue concessional GST exemption certificate to avail concessional GST of 5% for supply portion 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 and would accordingly issue Exemption Certificate in favour of the vendor. However on Services (Works, Installation), GST at existing rate shall be applicable without concession. The current rate of GST on Services is 18%.</p>	Yes / No / Explain	
5	<p>Security Deposit (SD): On acceptance of the tender, the Vendor shall submit security deposit for three percent (3% 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 nonjudicial 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.</p> <p>(This will be returned by SCL immediately on execution of the PO satisfactorily as per order terms. If not, the amount will be forfeited).</p> <p>Note: Vendor to ensure that Banker gives Bank Guarantee (BG) confirmation over email from their Domain directly, immediately after issuance of the same at the following email IDs:</p> <p>njain@scl.gov.in cc: abudhwar@scl.gov.in dc@scl.gov.in</p> <p>In addition the banker may send a scanned copy of the BG as an attachment.</p>	Yes / No / Explain	
6	<p>Delivery Period: The vendor shall specify their best delivery period for supply of Material.</p>	Yes / No / Explain	

7	<p>Time frame for Installation and Commissioning: The vendor shall specify the period for Installation & commissioning from the date of receipt of intimation from Purchaser on readiness of site.</p>	Yes / No / Explain	
8	<p>Liquidated Damages (LD): If the Vendor fails to deliver the stores within the time specified in the contract or any extension thereof, the purchaser shall recover from the Vendor as liquidated damages a sum of one half of one percent (0.5 percent) of the Contract price for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10 percent) of the Contract price.</p>	Yes / No / Explain	
9	<p>Terms of payment : The payment shall be remitted as under: 90% of the PO value 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 Purchasers site against a Performance Bank Guarantee.</p>	Yes / No / Explain	

10	<p>Warranty: The Vendor shall provide for the tendered equipment comprehensive warranty for parts as well as labour for a period of 36 months from the date of successful installation, commissioning and acceptance of the equipment at Purchaser site at no extra charges to Purchaser. In case any defect/faulty workmanship arises during warranty period, the Vendor should replace/rectify the same at its own cost at site/works of the Purchaser.</p> <p>All expenses on the visit(s) of the vendor engineer such as To and Fro travel costs, local transportation, boarding and lodging etc. during warranty shall be borne by the contractor.</p> <p>List of consumables not covered under warranty shall be mentioned separately.</p> <p>Vendor has to provide preventative visit at least once in a year and for breakdown as may be required during warranty period.</p>	Yes / No / Explain	
11	<p>Performance Bank Guarantee (PBG): The Vendor shall furnish a Bank Guarantee (as per format given by purchaser) from any nationalized/scheduled bank for an amount equivalent to three percent (3 percent) 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 Vendor without any interest.</p> <p>Alternately, the vendor instead of submitting separate BG for Security Deposit and Performance Bank Guarantee can submit one BG for 3% of PO value within 15 days of PO and valid till the completion of warranty period plus two months. This will serve as Security Deposit and Performance Bank Guarantee.</p>	Yes / No / Explain	

12	<p>Warranty Replacements: If in the opinion of the purchaser if it becomes necessary to replace or repair defective equipment during the warranty period, such replacement or repair shall be made by the Vendor free of all costs to the Purchaser provided the notice informing the Vendor of the defect is given by the Purchaser in this regard, within period of 36 months from the date of acceptance thereof.</p> <p>All replacement parts during the warranty period shall be supplied by the Contractor, free-of-cost with freight and insurance upto Purchaser site at S.A.S. Nagar, Punjab.</p> <p>All defective parts shall be returned by Purchaser to the Contractor, if requested, on Freight to pay basis after receipt of replacement parts.</p>	Yes / No / Explain	
13	<p>Post Warranty Service/Support: Vendor to quote separately for post warranty comprehensive (labour & parts) AMC charges per year for a period of 05 years. This shall be for reference purpose only.</p> <p>The quote for post warranty AMC shall be indicated in the Price-bid (Additional) only.</p> <p>(This would be for reference only and same shall not be considered during commercial evaluation of the tendered item.)</p>	Yes / No / Explain	
14	<p>Supply of Spares and Consumables: The Vendor to provide separately recommended essential spares and consumables list for one year operation without prices and uploaded in the Technical bid. .</p> <p>The prices shall be indicated in the Price bid (Additional) only.</p> <p>This would be for reference only and same shall not be considered during commercial /price bid evaluation of the tendered item.</p> <p>Vendor to provide spare & maintenance support for minimum 07 years after expiry of warranty period.</p>	Yes / No / Explain	

15	<p>New Machine Certificate: The vendor 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>	Yes / No / Explain	
16	<p>Replacement: If the stores or any portion thereof is damaged or lost during transit, the Purchaser shall give notice to the Vendor setting forth particulars of such stores damaged or lost during transit. The replacement of such stores shall be effected by the vendor 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.</p>	Yes / No / Explain	
17	<p>Rejection: In the event that any of the stores supplied by the Vendor 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 Vendor fails to do so, the purchaser may at his option either :</p> <p>a)replace or rectify such defective stores and recover the extra cost so involved from the Contractor, or b)terminate the Contract for default 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.</p>	Yes / No / Explain	

18	<p>Validity: The offer should be valid for a minimum period of 120 days from the date of opening of Tehno-Commercial bid and 90 days after opening of Price Bid.</p>	Yes / No / Explain	
19	<p>Installation and Commissioning: Installation, commissioning, and demonstration of performance of the tendered stores as per Purchaser tendered specifications shall be carried out by the Vendor at Purchaser site at S.A.S. Nagar, Punjab, India.</p> <p>The vendor shall provide in advance guidelines for preparation of installation site and list of items to be supplied by Purchaser during installation.</p> <p>On receipt of intimation from the Purchaser, the Vendor shall depute their engineer to the Purchaser site within two weeks to carry out installation and commissioning and will demonstrate the functionality of the tendered equipment to Purchaser specifications as per mutually agreed acceptance procedure. The Vendor shall be responsible for any loss/damages sustained due to delay on the part of the Contactor to send its engineer for installation and commissioning.</p> <p>Failure to commission the tendered equipment successfully shall entitle Purchaser to get full refund of the payment made and the interest thereon. Decision regarding successful installation and commissioning shall rest solely with the Purchaser.</p>	Yes / No / Explain	
20	<p>Mode of Despatch: Vendors responsibility.</p>	Yes / No / Explain	
21	<p>Technical Documentation: The vendor shall provide Soft copy of technical documentation covering operation, maintenance and schematic as specified in the technical specifications. All documentation shall be in English language only.</p>	Yes / No / Explain	

22	<p>Packing & Forwarding:</p> <p>The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.</p>	Yes / No / Explain	
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23	<p>Arbitration: In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in New Delhi in the Arbitration and Conciliation Centre New Delhi (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only. Work under the Contract shall be continued by the VENDOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the Purchaser or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.</p>	Yes / No / Explain	
24	<p>Applicable Law: The Contract shall be interpreted, construed and governed by the laws of India.</p>	Yes / No / Explain	
25	<p>Indicate the Name & address of the vendor for placing purchase order along with their email id , contact person name & designation , Telephone no. and fax no.</p>	Yes / No / Explain	

26	The participating Vendors/Suppliers/Service Providers shall indicate specifically whether they fall in the category of Class I local supplier or Class II local supplier or Nonlocal supplier for evaluation as per Ministry of Commerce & Industry office order no. P45021/2/2017PP(BEII) dt. 16th September, 2020. The vendor/supplier/Service Provider shall submit declaration as documentary proof in this regard.	Yes / No / Explain	
27	Government of India by Finance Act 2021 has widened the Scope of Tax Deduction at source (i.e.) TDS w.e.f. 1st July 2021 by introducing provision (A) Section 194Q-TDS on purchase of goods. The provisions of this act will apply to this tender.	Yes / No / Explain	
28	MSME participating in the tender will be eligible for exemption as per Government of India as applicable and updated from time to time. Necessary documentary proof shall be submitted in this regard.	Yes / No / Explain	
29	Any Other Term:	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	INDUCTIVELY COUPLED PLASMA - MASS SPECTROMETER, SCL Code: 210516291	1.00 Nos.		-		

Common charges (Applicable for all items)

Cost of Spares & Consumables if applicable	
Post Warranty AMC Charges per Year	