

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

**Tender for Supply Installation Testing and Commissioning of Process
Vacuum System**

Bids to be submitted online

Tender No.: SCL/PurUnit-4/SC202100011601 dated 10-11-2021

A. Tender Details

Tender No :	SCL/PurUnit-4/SC202100011601
Tender Date :	10-11-2021
Tender Classification:	GOODS
Purchase Entity :	PurUnit-4
Centre :	SEMI-CONDUCTOR LABORATORY (SCL)

Procurement of Supply Installation Testing and Commissioning of Process Vacuum System

Supply, Installation, Testing and Commissioning of Process Vacuum System:

This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dated 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote.

Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.

The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.

In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule

151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

Parties 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. Parties can seek help from help desk +91471 2565 454/2527 (Email: eproc@vssc.gov.in) also the home page of e-procurement portal may be accessed for any technical help for registration and subsequent process. Parties may please note that without registering in our E-procurement portal they will not be able to quote for this tender.

A.1 Tender Schedule

Bid Submission Start Date :	10-11-2021 12:02
Bid Clarification Due Date :	30-11-2021 11:00
Bid Submission Due Date :	09-12-2021 11:00
Bid Opening Date :	09-12-2021 11:01
Price Bid Opening Date :	21-12-2021 11:00

B. Tender Attachments

Technical Write-up/Drawings

Document : Drawing

Document : List of recommended make

Document : Technical Specification

Instructions To Vendors

4. INSTRUCTIONS TO TENDERERS AND TERMS CONDITIONS OF TENDER

1. Bid shall be submitted on-line only complying specified schedule.
2. Late tenders and delayed tenders will not be considered.
3. GST and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender.
4. a) 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.
b) 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.
c) Approximate net and gross weight of the items offered shall be indicated in your offer if available. If dimensional details are available the same should also be indicated in your offer.
(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. 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.
5. 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.

6. 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.

7. The authority of the person signing the tender, if called for, should be produced.

8. In case of any difference between General Terms & Conditions enclosed and Terms & Conditions specific to this tender i.e. technical specifications & Vendor Specified Terms, Terms and Conditions specific to this tender will prevail.

9. TERMS CONDITIONS OF TENDER

10. DEFINITIONS:

a. The term PURCHASER shall mean Semi-Conductor Laboratory, Sector-72, Mohali, Punjab-160071, under the administrative control of DOS, Government of India.

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 Contractor's 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. 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.

11. 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.

12. PACKING FORWARDING INSURANCE:

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.

13. DESPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on said to contain basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

14. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

15. 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 Contractor's 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 may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.
- d. If the whole or any part of the stores supplied are rejected in accordance with Clause No. 6 (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.

16. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's 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 Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

17. 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 authorise 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 sub-clause (ii) (iii) of clause above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase 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 re-purchase 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.

18.

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 purchaser's right to recover liquidated damages under clause 8 thereof.

19. 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.

20. PAYMENT:

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

21. MODE OF PAYMENT:

Normally payment will be made for the accepted stores within 30 days from the date of receipt of the materials.

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. 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 fulfillment of the contact.

24. 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.

25. 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.

C. Bid Templates

C.1 Technical Bid - Supply Installation Testing and Commissioning of Process Vacuum System

1. Supply of Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316

Item specifications for Supply of Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316, liquid filled, 1/2" connection, complete with heavy duty MS socket, MS nipple etc.		-		

2. Supply of Vacuum level sensor cum transmitter complete with accessories

Item specifications for Supply of Vacuum level sensor cum transmitter complete with accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Vacuum level sensor cum transmitter complete with accessories like heavy duty MS socket, heavy duty MS nipple etc. , range 0 – 500 mbar (absolute)		-		

3. I/T/C of 3C x 4 Sq mm size copper conductor, XLPE insulated

Item specifications for I/T/C of 3C x 4 Sq mm size copper conductor, XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	<p>Installation of 3C x 4 Sq mm size Copper conductor, XLPE insulated, extruded PVC inner sheath, armoured and overall FRLS PVC outer sheathed 1.1 KV grade, as per IS 7098 (Part I) on existing wall/surface/Cable Tray.</p> <p>Note: Height of the building/overhead existing cable tray is approx 4-5 meter. The cable shall be installed on cable Tray as required.</p>				
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4. Installation of 2 Pair Instrumentation Cable

5. I/T/C of Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar

Item specifications for I/T/C of Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Rotary screw vacuum pumps with a minimum capacity of 220 CFM @ 50 mbar(a), VFD controlled, self supporting type enclosed in MS heavy duty canopy, package with all the safeties in-built, TEFC squirrel cage induction motor (IE3 rated), VFD and interconnecting piping complete with check valve, vacuum relief valve, counter matching flanges etc. Microprocessor based digital controller, all safeties & interlocks and with compatibility for remote operation and BMS compatible.		-		
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6. I/T/C of MS receiver for process vacuum system with capacity of 1 m

Item specifications for I/T/C of MS receiver for process vacuum system with capacity of 1 m

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	MS receiver for process vacuum system with capacity of 1 m ³ complete with all the accessories like pressure relief valve, inlet and outlet piping connections, drain connection, counter matching flanges etc.		-		

7. I/T/C of 50 NB MS heavy duty C-class pipe including all necessary fittings

Item specifications for I/T/C of 50 NB MS heavy duty C-class pipe including all necessary fittings

SI No	Specification	Value	Compliance	Offered Specification	Remark

1	50 NB MS heavy duty C-class pipe including all necessary fittings elbows, T joints, flanges, dead flanges etc.		-		
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8. I/T/C of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball

Item specifications for I/T/C of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball		-		

9. I/T/C OF 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball

Item specifications for I/T/C OF 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball		-		

10. I/T/C OF 15 NB vent/drain connections complete with accessories

Item specifications for I/T/C OF 15 NB vent/drain connections complete with accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	15 NB vent/drain connections complete with accessories like isolating ball valve PN16 (CS body and SS ball), nipple, sockets, dead plugs etc.		-		

11. I/T/C OF 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh

Item specifications for I/T/C OF 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 NB strainer flange type, PN16 rated, CI body and SS wire mesh		-		

12. I/T/C OF Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316

Item specifications for I/T/C OF Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Bourdon type vacuum gauge 0 à 30 inches of Hg, Å100 dial size, SS316, liquid filled, 1/2â connection, complete with heavy duty MS socket, MS nipple etc.		-		

13. I/T/C OF Vacuum level sensor cum transmitter complete with accessories

Item specifications for I/T/C OF Vacuum level sensor cum transmitter complete with accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Vacuum level sensor cum transmitter complete with accessories like heavy duty MS socket, heavy duty MS nipple etc. , range 0 à 500 mbar (absolute)		-		

14. I/T/C OF MS support structure complete with supporting clamps, fasteners, support plates etc.

Item specifications for I/T/C OF MS support structure complete with supporting clamps, fasteners, support plates etc.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	MS support structure complete with supporting clamps, fasteners, support plates etc.		-		

15. I/T/C OF Nut/ bolts, washers, gasket etc.

Item specifications for I/T/C OF Nut/ bolts, washers, gasket etc.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Nut/ bolts, washers, gasket etc.		-		

16. Supply of 3 Phase 415 V PCC panel details as per SLD and specification attached.

Item specifications for Supply of 3 Phase 415 V PCC panel details as per SLD and specification attached.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of 3 Phase 415 V PCC panel details as per SLD and specification attached.		-		

17. Supply of 4Cx25 Sq. mm size Aluminium conductor, XLPE insulated

Item specifications for Supply of 4Cx25 Sq. mm size Aluminium conductor, XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark

1	<p>Supply of 4Cx25 Sq. mm size Aluminium conductor, XLPE insulated, extruded PVC inner sheath, armoured and overall FRLS PVC outer sheathed 1.1 KV grade, as per IS 7098 (Part I) on existing wall/surface/Cable Tray.</p> <p>Note: Height of the building/overhead existing cable tray is approx 4-5 meter. The cable shall be installed on cable Tray as required.</p>	-			
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18. Supply of 3Cx4 Sq. mm size Copper conductor, XLPE insulated

Item specifications for Supply of 3Cx4 Sq. mm size Copper conductor, XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	<p>Supply of 3Cx4 Sq. mm size Copper conductor, XLPE insulated, extruded PVC inner sheath, armoured and overall FRLS PVC outer sheathed 1.1 KV grade, as per IS 7098 (Part I) on existing wall/surface/Cable Tray.</p> <p>Note: Height of the building/overhead existing cable tray is approx 4-5 meter. The cable shall be installed on cable Tray as required.</p>	-			

19. 2 Pair Instrumentation cable, XLPE insulated

Item specifications for 2 Pair Instrumentation cable, XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	2 Pair Instrumentation cable, XLPE insulated, extruded PVC inner sheath, armoured and overall FRLS PVC outer sheathed 1.1 KV grade, as per IS 7098 (Part I) on existing wall/surface/Cable Tray/underground		-		
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20. Supply of 12 Pair instrument Cu cable

21. Supply of end termination with brass double compression gland and Aluminium lugs for 4C x 25 sq mm Aluminium (28 mm) size XLPE insulated

Item specifications for Supply of end termination with brass double compression gland and Aluminium lugs for 4C x 25 sq mm Aluminium (28 mm) size XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of end termination with brass double compression gland and Aluminium lugs for 4C x 25 Sq mm Aluminium (28 mm) size XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable.		-		

22. Supply of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated

Item specifications for Supply of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	End termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable. Make: Dowells, 3M, Hex, Comet				
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23. Supply of end termination of 12 Pair instrument Cu cable

24. Supply of 50 mm width x 50 mm depth x 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray

Item specifications for Supply of 50 mm width x 50 mm depth x 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 mm width x 50 mm depth x 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders or on surface including G.I. bolts & nuts, etc. as required. Make: L&T, Profab, Legrand, SIntex, OBO Bettermann		-		

25. Supply of junction box (size- 300mmx300mmx250mm), single front construction , Powder coated IP 54, non compartmental, SS304

Item specifications for Supply of junction box (size- 300mmx300mmx250mm), single front

construction , Powder coated IP 54, non compartmental, SS304

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of junction box (size- 300mmx300mmx250 mm), single front construction , Powder coated IP 54, non compartmental, SS304, 3 mm thick removable gland plate, for bottom entry, lug and ferrules at both side of control wiring, Aluminium name plate on front hinged door , 2 nos earth stud with 50 no of elmex type terminal blocks etc. Make: As per Approved Panel List (attached).		-		

26. Providing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.**Item specifications for Providing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Providing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm).		-		

27. Providing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor, cable tray etc.**Item specifications for Providing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor, cable tray etc.**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Providing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor, cable tray etc. with termination at both end as required. Make: Finolex/Havells/KEI/ Polycab/RPG/CCI.		-		

28. Supply of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel

Item specifications for Supply of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel to display the HMI operational parameters of vaccum Pumps in FCMS		-		

29. Supply of 20mm medium class PVC conduit along with accessories

Item specifications for Supply of 20mm medium class PVC conduit along with accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of 20mm medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Note: Conduit shall be heavy duty and of ISI marked.		-		

30. Installation, Testing and Commissioning of 3 Phase 415 V PCC panel details as per SLD and specification attached.

Item specifications for Installation, Testing and Commissioning of 3 Phase 415 V PCC panel details as per SLD and specification attached.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation, Testing and Commissioning of 3 Phase 415 V PCC panel details as per SLD and specification attached. Make: As per attached approved Panel list.		-		

31. I/T/C of 4C x 25 Sq mm size Aluminium conductor, XLPE insulated

Item specifications for I/T/C of 4C x 25 Sq mm size Aluminium conductor, XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation of 4C x 25 Sq mm size Aluminium conductor, XLPE insulated, extruded PVC inner sheath, armoured and overall FRLS PVC outer sheathed 1.1 KV grade, as per IS 7098 (Part I) on existing wall/surface/Cable Tray. Note: Height of the building/overhead existing cable tray is approx 4-5 meter. The cable shall be installed on cable Tray as required.		-		

32. Installation of 12 Pair Instrumentation Cable

33. Making of end termination with brass double compression gland and Aluminium/Cu lugs for 4Cx25 Sq. mm Aluminium (28mm) size XLPE insulated

Item specifications for Making of end termination with brass double compression gland and Aluminium/Cu lugs for 4Cx25 Sq. mm Aluminium (28mm) size XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 4C x 25 Sq mm size XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable.		-		

34. Making of end termination with brass double compression gland and Aluminium/Cu lugs for 3Cx4 Sq. mm Cu size XLPE insulated

Item specifications for Making of end termination with brass double compression gland and Aluminium/Cu lugs for 3Cx4 Sq. mm Cu size XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 3C x4 Sq mm Cu size XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable.		-		

35. Making of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated

Item specifications for Making of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark

1	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable.		-		
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36. making of end termination of 12 Pair instrument Cu cable

37. Installing of 50 mm width X 50 mm depth X 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray

Item specifications for Installing of 50 mm width X 50 mm depth X 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installing of 50 mm width X 50 mm depth X 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders or on surface including G.I. bolts & nuts, etc. as required.		-		

38. Installation , testing and Commissioning of junction box , single front construction , Powder coated IP 54

Item specifications for Installation , testing and Commissioning of junction box , single front construction , Powder coated IP 54

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation , testing and Commissioning of junction box , single front construction , Powder coated IP 54, non compartmental, SS304, 3 mm thick removable gland plate, for bottom entry, lug and ferrules at both side of control wiring, Aluminium name plate on front hinged door , 2 nos earth stud with 100 no of elmex type terminal blocks etc. Make: As per Dos Approved Panel List (attached).		-		

39. Fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.

Item specifications for Fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm).		-		

40. Fixing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor

Item specifications for Fixing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Fixing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor, cable tray etc. with termination at both end as required. Make: Finolex/Havells/KEI/ Polycab/RPG/CCI.		-		
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41. Laying of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel

Item specifications for Laying of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Laying of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel to display the HMI operational parameters of vaccum Pumps in FCMS		-		

42. Fixing of 20mm medium class PVC conduit along with accessories

Item specifications for Fixing of 20mm medium class PVC conduit along with accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Fixing of 20mm medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Note: Conduit shall be heavy duty and of ISI marked.		-		

43. Extra Items

44. I/T/C of extra Items if any**Item specifications for I/T/C of extra Items if any**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	I/T/C of extra Items if any		-		

45. Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar**Item specifications for Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Rotary screw vacuum pumps with a minimum capacity of 220 CFM @ 50 mbar(a), VFD controlled, self supporting type enclosed in MS heavy duty canopy, package with all the safeties in-built, TEFC squirrel cage induction motor (IE3 rated), VFD and interconnecting piping complete with check valve, vacuum relief valve, counter matching flanges etc. Microprocessor based digital controller, all safeties & interlocks and with compatibility for remote operation and BMS compatible.		-		

46. Supply of MS receiver for process vacuum system with capacity of 1 m**Item specifications for Supply of MS receiver for process vacuum system with capacity of 1 m**

SI No	Specification	Value	Compliance	Offered Specification	Remark

1	MS receiver for process vacuum system with capacity of 1 m ³ complete with all the accessories like vacuum relief valve, inlet and outlet piping connections, drain connection, counter matching flanges etc.		-		
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47. Supply of 50 NB MS heavy duty C-class pipe

Item specifications for Supply of 50 NB MS heavy duty C-class pipe

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 NB MS heavy duty C-class pipe including all necessary fittings elbows, T joints, flanges, dead flanges etc.		-		

48. Supply of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball

Item specifications for Supply of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball		-		

49. Supply of 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball

Item specifications for Supply of 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball		-		

50. Supply of 15 NB vent/drain connections complete with accessories**Item specifications for Supply of 15 NB vent/drain connections complete with accessories**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	15 NB vent/drain connections complete with accessories like isolating ball valve PN16 (CS body and SS ball), nipple, sockets, dead plugs etc.		-		

51. Supply of 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh**Item specifications for Supply of 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	50 NB strainer flange type, PN16 rated, CI body and SS wire mesh		-		

52. Supply of MS support structure complete with supporting clamps, fasteners, support plates etc.**Item specifications for Supply of MS support structure complete with supporting clamps, fasteners, support plates etc.**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	MS support structure complete with supporting clamps, fasteners, support plates etc.		-		

53. Supply of Nut/ bolts, washers, gasket etc.**Item specifications for Supply of Nut/ bolts, washers, gasket etc.**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Nut/ bolts, washers, gasket etc.		-		

54. Supply of end termination with brass double compression gland and Cu lugs for 3C x 4 sq mm Cu size XLPE insulated

Item specifications for Supply of end termination with brass double compression gland and Cu lugs for 3C x 4 sq mm Cu size XLPE insulated

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of end termination with brass double compression gland and Cu lugs for 3C x 4 Sq mm size Cu XLPE insulated, extruded PVC inner sheath, Steel wire armoured and PVC outer sheathed 1.1 KV grade cable.		-		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	INTENT OF SPECIFICATIONS:	<p>The scope of work covers Supply, Installation, Testing, Commissioning at site and handing over of Process Vacuum System to SCL comprising of Vacuum Pumps, Vacuum Receivers, necessary piping, valves, fittings, support structure and associated Electrical MCC/PCC panel, Instruments, power & control cables etc..</p> <p>The scope of work shall include inspection, packing, dispatching, loading, transit, unloading & storage at site, assembly, pre-commissioning checks, installation, commissioning and complete handing over of the Process Vacuum System at SCL.</p> <p>The scope of work also involves connecting the new system with existing operational process vacuum line after cutting the existing lines at the point of connection(s).</p> <p>The Contractor shall demonstrate performance and quality parameters of the equipment/systems etc. installed under the Contract at the rated capacity/as per design.</p>	Yes / No / Explain		
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2	ELIGIBILITY CRITERIA	<p>Bidders meeting the below mentioned eligibility criteria are eligible to participate in the tender.</p> <p>-Bidder should have successfully completed at-least one (01) similar work involving supply, installation and commissioning of Process Vacuum system of total capacity not less than 350 CFM at 50 mbar(Absolute) consisting of vacuum pump(s), receivers, associated electrical work etc. during last seven years.</p> <p>OR</p> <p>-Bidder should have successfully completed at-least two (02) similar works each involving supply, installation and commissioning of Process Vacuum system of capacity not less than 260 CFM at 50 mbar(Absolute) (total capacity for each work) consisting of vacuum pump(s), receivers, associated electrical work etc. during last seven years.</p> <p>To assess eligibility for the work, the bidders shall furnish copy(ies) of the Purchase Order(s) of their earlier completed works and their completion certificate(s), evidencing satisfactory completion of similar works issued by the respective clients/organizations</p>	Yes / No / Explain		
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3	ACCEPTANCE PROCEDURE	<p>The Performance & Quality parameters of the entire installation shall be monitored for at least 7 days after commissioning for satisfactory performance upon which SCL shall give its acceptance. Deviation in any of the specified parameters will not be acceptable and it shall be the responsibility of the vendor to take corrective action/improvements/modifications, as required, in the installed system to meet the specified parameters and the system will be put back to trial run again for 7 days before the acceptance is given. On successful completion of the entire work, the contractor shall provide 'As Built' drawings for all the systems executed under the contract. Three (03) sets of hard copies and one (01) set in soft copy (CD/pen drive) in Auto-CAD format shall be provided to SCL for its record and reference. Contractor shall also provide instruction / Operation manual(s) and maintenance manuals for the all equipment.</p>	Yes / No / Explain		
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4	MEASUREME NT AND BILLING OF QUANTITY	<p>The quantities indicated against each item in the bill of quantities (BOQ) are indicative and are for the purpose of bidding only. Variation in quantities up-to + 25% shall be carried out by the contractor on the same conditions in all respects including the rates as per PO/Contract. In case of Contract/PO items which exceed the said limit of +25%, the contractor may claim revision of rates supported by proof of analysis and if the rate claimed is in excess of the rate specified in the bill of quantities, SCL's authorized officials in-charge shall after giving consideration to the analysis of rates submitted by the vendor, determine the rates on the basis of market rates and the contractor shall be paid in accordance with the rates so determined.</p> <p>In case of extra items (that are completely new and are in addition to the items contained in the contract), the vendor (contractor) may claim rates supported by proper analysis, and SCL's authorized officials in-charge of the work, shall after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of market rates and factoring in contractor's profit taking overheads @ 15%, and the contractor (vendor) shall be paid in accordance with the</p>	Yes / No / Explain		
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		rates so determined.			
5	WARRANTY	<p>The vendor shall submit a written warranty for a period of two (02) year from the date of commissioning for successful / trouble free running followed by the acceptance of the entire system under scope of this work. During the warranty period, the contractor shall provide four (04) numbers of quarterly preventive maintenance visits per year for the tendered system.</p> <p>Any breakdown in any part of the tendered system including replacement of the faulty parts/ equipment, if any, during warranty period shall be attended by the vendor within 24 hours of intimation by SCL.</p> <p>All the preventive and breakdown maintenances (as and when required) during the warranty period shall be carried out by the vendor (or contractor) at no extra cost. Warranty shall cover both Parts and labour.</p>	Yes / No / Explain		

6	<p>COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)</p>	<p>SCL may enter into Comprehensive Annual Maintenance Contract (CAMC) for the system covered under the scope of this tender for a period of Five (05) years after expiry of the Warranty period of two (02) years. Vendor shall provide the yearly CAMC charge for five (05) years. During the CAMC, the contractor shall provide four (04) numbers of quarterly preventive maintenance visits per year for each of the tendered system. All the break downs shall be covered under the scope of the vendor. All the consumables, spares, tools, tackles, required manpower etc. shall be covered under scope of the vendor</p>	<p>Yes / No / Explain</p>		
7	<p>COMPLETION PERIOD</p>	<p>The time period for the completion of the entire work is three (03) months from 7th day of release of Purchase order by SCL</p>	<p>Yes / No / Explain</p>		

8	OTHER TERMS AND CONDITIONS	<p>1.The required test certificates of the material in the scope as well as equipments tested at manufacturer's works shall be supplied by the vendor.</p> <p>2.The machines shall be adequately isolated against transmission of vibrations to the building structure as per manufacturer recommendation.</p> <p>3.All the sensors, gauges and energy meters etc. shall be calibrated and shall be traceable to accredited test house standards.</p> <p>4.Necessary foundation bolts, nuts, leveling-screws vibration pads etc. wherever required, for mounting the machines, shall be provided by the vendor as per manufacturer's drawings/recommendations.</p> <p>5.Technical leaflets and General layout the equipments showing their overall dimensions shall be provided in duplicate along with the technical bid.</p> <p>6.The Vendor shall impart on-site hands-on training to SCL personnel free of cost, on operations, troubleshooting and preventive maintenance of the equipment / systems supplied and installed under the Contract, during installation and commissioning.</p> <p>7.Vendor to provide certificate showing the date of manufacture of the machine and certifying that the machine being supplied is new and not a used/old/second</p>	Yes / No / Explain		
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hand/ refurbished /reconditioned machine.

8.The vendor should satisfy himself for the adequacy/completeness of the system and shall include any other item/s required for safe and satisfactory functioning.

9.Detailed manuals incorporating all technical details, spare part lists and troubleshooting etc., mechanical & electrical drawings, wiring-diagrams etc. shall be provided by the vendor.

10.Work shall be carried out in a coordinated manner by the vendor. For final tie-in of the vendor's installations with SCL's existing running system, vendor shall give prior (say minimum 10 days) intimation to SCL for shutdown of that system to facilitate the tie-in.

11.Payment for the work shall be made on the basis of actual work done and the accepted rates for various items in the Bill of Quantities.

12.For measurement of piping, installed straight length including fittings (bends, flanges, Tee, reducers) etc. shall be considered and the payment shall be made as per unit rates based upon the measurements of actual work done. Valves shall be counted separately and paid at the agreed unit rates.

13.All the required tools, tackles, scaffoldings, man power etc. is in scope

of the vendor.

14. Vendor shall ensure adherence to safe construction practices which shall inter-alia include use of Personnel Protection Equipment (PPE) by their workmen, supervisors etc. deployed on the work. PPE viz., safety helmets, safety shoes, harnesses, safety glasses, gloves etc. shall be provided by the vendor for the safety of all the personnel at the site of work.

15. Vendor shall take adequate measures to ensure that no damage or loss is caused to SCL's buildings, equipment and personnel due to any activity carried out by the vendor relating to the performance of the Contract. Vendor shall be liable to make good the loss/damage including any consequential damage caused by them and in case of failure to do so, SCL shall affect financial recovery for the same from the vendor.

16. All materials and equipment shall conform to the relevant Indian Standards and shall be of the approved make and design. Makes shall be strictly in conformity with the Recommended Makes/Manufacturers' listed in the Tender Document.

17. Electricity required for installation shall be provided by SCL at no charge basis to the vendor. For this, electricity connection will be provided at single point and further

		<p>distribution shall be the vendor's responsibility. Vendor shall provide wattage of all the electrical loads required for installation and install all safety and protection devices viz., MCB/MCCB/ELCB/RCB etc. as per the applicable electricity rules.</p> <p>18.Civil works are excluded from the vendor's scope of work but necessary drawings and other details shall be provided by the vendor. However, making cut-outs/penetrations etc. for routing utility piping lines, ducts etc. in the building and making good the same is in the vendor's scope of work.</p> <p>19.Vendor shall be required to follow the security procedures in vogue at SCL for the movement of vendor's personnel, materials etc. into/from SCL premises.</p>			
9	Note1	<p>Vendor to download "Technical specification document", "List of Recommended makes" and "Tender Drawings", take print out of complete documents, sign all the pages/Clauses of the documents as token of acceptance/compliance to the Technical Specifications, List of makes and drawings, Scan the signed document and shall upload the same in the un-priced technical part of the bid/Supporting document from vendor.</p>	Yes / No / Explain		

10	Note 2	Various materials / systems etc. procured by the selected Contractor for incorporation in the work shall be only of RFP specified Makes/Manufacturers of various materials / systems. Submittals of the same shall be submitted by the contractor for SCL review and approval.	Yes / No / Explain		
11	Note 3	In case, any extra item(s) over and above the BOQ items is(are) required to meet the specifications, description of such item(s) shall be mentioned here. Supply rates of such item(s) shall be mentioned in the row 'Supply of Extra item(s) if any' of BOQ. Installation/Testing/Commissioning rates of such item(s) shall be mentioned in the row 'I/T/C of Extra item(s) if any' row of BOQ.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Signed and Stamped Tender Drawings

2. Signed and Stamped List of recommended makes

3. Documents/Brochure of the Equipments/Items of makes offered from among the recommended makes and showing the equipment/items are manufactured in India

4. Copies of Purchase Orders/Work orders and their Completion certificates in support of the Eligibility Criteria

5. Signed and stamped Specification document

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	This being two part Tender Technical and Commercial parts separate, the bidder should not attach any document(s) containing pricing information alongwith Technical Part. The tenders containing price information in Technical Part will be summarily rejected. Prices should be indicated in the Price Bid format only.	Yes / No / Explain	
2	DELIVERY TERMS : For supply Store/s: Stores shall be despatched on F.O.R destination basis i.e. SCL, S.A.S. Nagar, Mohali, Punjab exclusive of GST as may be applicable. Vendor to quote in INR only.	Yes / No / Explain	
3	GST: Purchaser is entitled to concessional GST of 5% as per Ministry of Finance Department of Revenue, Notification No. 47/2017 Integrated Tax (Rate) both dated 14th November 2017 respectively and would accordingly issue Exemption Certificate in favour of the contractor quoting in Indian Rupees. The bidder should take note of the same while quoting the prices in Indian Rupees. GST on installation/ services shall be applicable @18%.	Yes / No / Explain	
4	COMPLETION PERIOD: The time period for the completion of the entire work i.e. Supply, installation, testing and commissioning is three (03) months from 7th day of release of Purchase order by SCL.	Yes / No / Explain	
5	VALIDITY: The tender must be valid for a minimum period of 120 days from the date of opening of Technical bid and 90 days after opening of Price bid.	Yes / No / Explain	

6	<p>SECURITY DEPOSIT: On acceptance of the purchase order, the Contractor shall submit security deposit for three percent (03 percent) value of the Purchase Order (PO) within 15 days from the date of receipt of PO towards successful execution of the PO. Security Deposit shall be submitted through Demand Draft / Bankers Cheque/ Fixed Deposit Receipt or Bank Guarantee(BG) 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.</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: In case of BG, Vendor to ensure that their Banker gives Bank Guarantee(BG) confirmation over email from Bank Domain at the following email ids, followed by a letter of confirmation as hard copy:</p> <p>njain@scl.gov.in CC: harjeet@scl.gov.in abhishek.mishra@scl.gov.in</p> <p>In addition the banker may send a scanned copy of the BG as an attachment.</p>	Yes / No / Explain	
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7	<p>WARRANTY : The Vendor shall submit a written warranty for a period of two (02) years from the date of commissioning for successful/trouble free running followed by the acceptance of the entire system under scope of this work. During the warranty period, the contractor shall provide four (04) numbers of quarterly preventive maintenance visits per year for the tendered system.</p> <p>Any break down in any part of the tendered system including replacement of the faulty parts/equipment, if any , during warranty period shall be attended by the vendor within 24 hours of intimation by SCL.</p> <p>All the preventive and breakdown maintenances (as and when required) during the warranty period shall be carried by the vendor (or contractor) at no extra cost. Warranty shall cover both Parts and Labour.</p>	Yes / No / Explain	
8	<p>WARRANTY REPLACEMENTS: The replacement parts, if any, shall be supplied by the Contractor free of cost on F.O.R. Purchaser site at SAS Nagar, Punjab basis.</p>	Yes / No / Explain	
9	<p>COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC): SCL may enter into Comprehensive Annual Maintenance Contract (CAMC) for the system covered under the scope of this tender for a period of Five (05) years after expiry of the Warranty period of two (02) years. Vendor shall provide the yearly CAMC charge for five (05) years. These prices should be quoted in Price Format. No Price information should be mentioned in the Technical Part.</p> <p>During the CAMC, the contractor shall provide four (04) numbers of quarterly preventive maintenance visits per year for each of the tendered system. All the break downs shall be covered under the scope of the vendor.</p>	Yes / No / Explain	

10	<p>TERMS OF PAYMENT:</p> <p>90% value of the supply parts shall be paid within 30 days of receipt of material at Purchaser site against presentation of documents (invoice etc.) to SCL and the balance 10% amount shall be payable on acceptance of the entire project alongwith 100% of installation charges against a Performance Bank Guarantee.</p> <p>Payment shall be released after TDS on services (installation etc.), if any.</p>	Yes / No / Explain	
11	<p>PERFORMANCE BANK GUARANTEE (PBG): The Contractor shall furnish a Bank Guarantee (as per format given by purchaser) from any nationalized/ scheduled bank for an amount equivalent to 03% 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.</p> <p>Note: Vendor to ensure that their Banker gives Bank Guarantee(BG) confirmation over email from Bank Domain at the following email lds, followed by a letter of confirmation as hard copy:</p> <p>njain@scl.gov.in</p> <p>CC: harjeet@scl.gov.in abhishek.mishra@scl.gov.in</p> <p>In addition the banker may send a scanned copy of the BG as an attachment.</p>	Yes / No / Explain	

12	<p>DELAY IN COMPLETION/LIQUIDATED DAMAGES: If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the purchaser shall recover 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 (10 percent) of the Contract price of the unit or units so delayed.</p>	Yes / No / Explain	
13	<p>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.</p>	Yes / No / Explain	
14	<p>Labour Law: Contractor shall abide by all labour laws, rules and regulations in India, which are prevailing, and as enforced from time to time and SCL shall not be responsible for any accident or mishap during the course of the contract to any of engineer/ labour employee by the Contractor. The contractor shall also ensure that the statutory obligations with regards to the employment of labour under law are complied properly and timely.</p>	Yes / No / Explain	

15	<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 CONTRACTOR 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 DEPARTMENT 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	
16	<p>APPLICABLE LAWS: The contract shall be interpreted, construed and governed by laws of India. The contract shall be subject to exclusive Jurisdiction of the Court of SAS Nagar (Mohali), Punjab, India irrespective of anything mentioned in any correspondences or otherwise.</p>	Yes / No / Explain	

17	<p>The Participating Vendor / Suppliers /Service Provider shall indicate specifically whether they fall in the category of Class-I local Supplier or Class-II Local Supplier or Non - Local Supplier for evaluation as per Ministry of Commerce and Industry Office Order No. P-45021/2/2017-PP (B-II dt. 16th September 2020. The Provisions of the office order shall apply for this tender. The Vendor/Supplier/Service provider shall submit documentary proof in this regard along with their quotation.</p> <p>Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content:</p> <p>a)Equal to or more than 50% : Class-I local supplier. b) More than 20% but less than 50%: Class-II local supplier. c)Less than or equal to 20% : Non local supplier.</p> <p>Mention your category.</p>	Yes / No / Explain	
18	<p>The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. Vendor shall also give details of location (s) at which the local value addition is made.</p>	Yes / No / Explain	
19	Any Other Term:	-	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Supply of Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316	4.00 Nos.		-		

2	Supply of Vacuum level sensor cum transmitter complete with accessories	1.00 Nos.		-		
3	I/T/C of 3C x 4 Sq mm size copper conductor, XLPE insulated	50.00 m		-		
4	Installation of 2 Pair Instrumentation Cable	50.00 m		-		
5	I/T/C of Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar	2.00 Nos.		-		
6	I/T/C of MS receiver for process vacuum system with capacity of 1 m	2.00 Nos.		-		
7	I/T/C of 50 NB MS heavy duty C-class pipe including all necessary fittings	42.00 m		-		
8	I/T/C of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball	9.00 Nos.		-		
9	I/T/C OF 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball	7.00 Nos.		-		
10	I/T/C OF 15 NB vent/drain connections complete with accessories	2.00 Nos.		-		

11	I/T/C OF 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh	2.00 Nos.					
12	I/T/C OF Bourdon type vacuum gauge 0 – 30 inches of Hg, Ø100 dial size, SS316	4.00 Nos.					
13	I/T/C OF Vacuum level sensor cum transmitter complete with accessories	1.00 Nos.					
14	I/T/C OF MS support structure complete with supporting clamps, fasteners, support plates etc.	1.00 Lot					
15	I/T/C OF Nut/ bolts, washers, gasket etc.	1.00 Lot					
16	Supply of 3 Phase 415 V PCC panel details as per SLD and specification attached.	1.00 Nos.					
17	Supply of 4Cx25 Sq. mm size Aluminium conductor, XLPE insulated	50.00 m					
18	Supply of 3Cx4 Sq. mm size Copper conductor, XLPE insulated	50.00 m					
19	2 Pair Instrumentation cable, XLPE insulated	50.00 m					

20	Supply of 12 Pair instrument Cu cable	100.00 m		-		
21	Supply of end termination with brass double compression gland and Aluminium lugs for 4C x 25 sq mm Aluminium (28 mm) size XLPE insulated	2.00 Nos.		-		
22	Supply of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated	10.00 Nos.		-		
23	Supply of end termination of 12 Pair instrument Cu cable	10.00 Nos.		-		
24	Supply of 50 mm width x 50 mm depth x 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray	50.00 m		-		
25	Supply of junction box (size-300mmx300mmx250mm), single front construction, Powder coated IP 54, non compartmental, SS304	2.00 Nos.		-		

26	Providing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30.00 m		-		
27	Providing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor, cable tray etc.	20.00 m		-		
28	Supply of Modbus communication cable in PVC conduit from Vaccum Pumps to Chemical Lab I/O panel	50.00 m		-		
29	Supply of 20mm medium class PVC conduit along with accessories	50.00 m		-		
30	Installation, Testing and Commissioning of 3 Phase 415 V PCC panel details as per SLD and specification attached.	1.00 Nos.		-		
31	I/T/C of 4C x 25 Sq mm size Aluminium conductor, XLPE insulated	50.00 m		-		
32	Installation of 12 Pair Instrumentation Cable	100.00 m		-		

33	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 4Cx25 Sq. mm Aluminium (28mm) size XLPE insulated	2.00 Nos.					
34	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 3Cx4 Sq. mm Cu size XLPE insulated	4.00 Nos.					
35	Making of end termination with brass double compression gland and Aluminium/Cu lugs for 2 Pair instrumentation cable XLPE insulated	10.00 Nos.					
36	making of end termination of 12 Pair instrument Cu cable	10.00 Nos.					
37	Installing of 50 mm width X 50 mm depth X 1.6 mm thickness size of perforated Hot, Dipped Galvanised Iron cable tray	50.00 m					

38	Installation , testing and Commissioning of junction box , single front construction , Powder coated IP 54	2.00 Nos.		-		
39	Fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30.00 m		-		
40	Fixing 10 mm dia copper wire (Green yellow colour) on surface or in recess for loop earthing of motor	20.00 m		-		
41	Laying of Modbus communication cable in PVC conduit from Vacuum Pumps to Chemical Lab I/O panel	50.00 m		-		
42	Fixing of 20mm medium class PVC conduit along with accessories	50.00 m		-		
43	Extra Items	1.00 Lot		-		
44	I/T/C of extra Items if any	1.00 Lot		-		
45	Rotary screw vacuum pumps with a minimum capacity of 220 CFM at 50 mbar	2.00 Nos.		-		
46	Supply of MS receiver for process vacuum system with capacity of 1 m	2.00 Nos.		-		

47	Supply of 50 NB MS heavy duty C-class pipe	42.00 m		-		
48	Supply of 50 NB Ball valves, PN 16/Class 150 rated having CS body and SS ball	9.00 Nos.		-		
49	Supply of 15 NB Ball valves PN 16/Class 150 rated having CS body and SS ball	7.00 Nos.		-		
50	Supply of 15 NB vent/drain connections complete with accessories	2.00 Nos.		-		
51	Supply of 50 NB strainer flange type, PN16 rated, CI body and SS wire mesh	2.00 Nos.		-		
52	Supply of MS support structure complete with supporting clamps, fasteners, support plates etc.	1.00 Lot		-		
53	Supply of Nut/ bolts, washers, gasket etc.	1.00 Lot		-		
54	Supply of end termination with brass double compression gland and Cu lugs for 3C x 4 sq mm Cu size XLPE insulated	4.00 Nos.		-		

Common charges (Applicable for all items)

Post Warranty AMC Charges per Year	
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