

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

**Tender for Replacement of existing 8" Make-Up Air Unit (MAU) fan section, Fan & Fan Motors, Isolation dampers, Diffuser plates etc.**

**Bids to be submitted online**

**Tender No.: SCL/PurUnit-4/SC202100013601 dated 02-12-2021**

## A. Tender Details

Tender No :	<b>SCL/PurUnit-4/SC202100013601</b>
Tender Date :	<b>02-12-2021</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>PurUnit-4</b>
Centre :	<b>SEMI-CONDUCTOR LABORATORY (SCL)</b>

### **Procurement of Replacement of existing 8 inch Make-Up Air Unit (MAU) fan section, Fan & Fan Motors, Isolation dampers, Diffuser plates etc.**

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](mailto: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 :	<b>02-12-2021 13:00</b>
Bid Clarification Due Date :	<b>20-12-2021 17:00</b>
Bid Submission Due Date :	<b>03-01-2022 11:00</b>
Bid Opening Date :	<b>03-01-2022 11:30</b>
Price Bid Opening Date :	<b>20-01-2022 15:30</b>

## **B. Tender Attachments**

### **Technical Write-up/Drawings**

**Document : Fan Section Drawing**

### **Instructions To Vendors**

#### **2. INSTRUCTIONS TO TENDERERS AND TERMS CONDITIONS OF TENDER**

1. 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.

#### **2. 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.

3. Bid shall be submitted on-line only complying specified schedule.

#### 4. 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.

#### 5. 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.

#### 6. 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.

#### 7. 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.

#### 8. 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.

#### 9.

##### 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.

10. GST and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender.

11. 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.

## 12. 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 contract.

13. Late tenders and delayed tenders will not be considered.

## 14. MODE OF PAYMENT:

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

## 15. 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.

## 16. PAYMENT:

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

## 17. 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.

## 18. 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.

#### 19. 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.

#### 20. 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.

#### 21. TERMS CONDITIONS OF TENDER

#### 22. TEST CERTIFICATE:

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

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

24. 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.

25. 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.



## C. Bid Templates

### C.1 Technical Bid - Replacement of existing 8" Make-Up Air Unit (MAU) fan section, Fan & Fan Motors, Isolation dampers, Diffuser plates etc.

#### 1. Supply of Direct driven, plug type centrifugal fans having capacity of 25000 CFM and total static pressure of 200 mm of WC

#### Item specifications for Supply of Direct driven, plug type centrifugal fans having capacity of 25000 CFM and total static pressure of 200 mm of WC

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of Direct driven, plug type centrifugal fans having capacity of 25000 CFM and total static pressure of 200 mm of WC, SS/Aluminium alloy impeller, adequately sized (approx. 45 KW), high efficiency (IE3), Min IP55 Rating, 1440 RPM, TEFC squirrel cage induction motor suitable for VFD drive, complete with all accessories like moulting frame, vibration isolators etc.		-		

#### 2. Supply of Make-up Air Unit (MAU) fan section structure of modular construction, double skin, with 50±2 mm thick PUF insulation sand-witched panel etc.

#### Item specifications for Supply of Make-up Air Unit (MAU) fan section structure of modular construction, double skin, with 50±2 mm thick PUF insulation sand-witched panel etc.

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Supply of Make-up Air Unit (MAU) fan section structure of modular construction, double skin, with 50±2 mm thick PUF insulation sand-witched panel, 1 mm GI outer skin pre coated and 0.8 mm thick SS sheet inside, fabricated from Extruded Al sections, joined together to provide a sturdy, strong and self supporting frame work, suitable for total static pressure of 200 mm WC, complete with floor, SS partitions, isolation dampers, fan mounting base, diffuser plate, flexible connection for fans, etc. all complete for successful operation of the unit.		-		
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### 3. Supply of SS drip trays, min. 1.5 mm thick. 3.2 m long

#### Item specifications for Supply of SS drip trays, min. 1.5 mm thick. 3.2 m long

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of SS drip trays, min. 1.5 mm thick. 3.2 m long		-		

### 4. Assembly of the fan section casing complete with fans, dampers, flexible connections, partitions, diffuser plate, doors etc.

#### Item specifications for Assembly of the fan section casing complete with fans, dampers, flexible connections, partitions, diffuser plate, doors etc.

SI No	Specification	Value	Compliance	Offered Specification	Remark

1	Assembly of the fan section casing complete with fans, dampers, flexible connections, partitions, diffuser plate, doors etc. all complete for successful operation of the unit.		-		
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**5. Installation of SS drip trays, min. 1.5 mm thick. 3.2 m long**

**Item specifications for Installation of SS drip trays, min. 1.5 mm thick. 3.2 m long**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Installation of SS drip trays, min. 1.5 mm thick. 3.2 m long		-		

**6. Dismantling of the existing fan section, fans, dampers, floor etc.**

**Item specifications for Dismantling of the existing fan section, fans, dampers, floor etc.**

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dismantling of the existing fan section, fans, dampers, floor etc. and shifting the same at designated location within SCL.		-		

**Common Specifications (Applicable for all items)**

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	SCOPE OF WORK:	<p>8" Make up Air Unit (MAU) is a fresh air unit installed in our premises which supplies treated fresh air to the 8" Fab lines of SCL. The unit was supplied by M/s Ethos and got commissioned in 2011. The unit is in continuous operation since then.</p> <p>Though the unit is in continuous operation, maintenance/breakdown issues have been noticed in the fan section of the unit. The unit is having three fans installed in it and two of them are always operational and third is on standby mode.</p>	Yes / No / Explain		
2	SCOPE OF WORK Continue..1	<p>Due to repeated maintenance/breakdown issues in the fan section, the down time of the unit is increasing. To achieve the zero unplanned down time of the unit, it is planned to replace the entire fan section of the unit along with the fans. Electrical infrastructure of the unit will remain same. Accordingly, the scope of work covers the following:</p> <p>1. Dismantling the existing complete fan section including the fans &amp; fan motors, internal partitions, dampers, diffuser plate etc.</p>	Yes / No / Explain		

3	SCOPE OF WORK Continue..2	<p>2. Supply and installation of new fan section including the internal partitions, dampers, diffuser plate etc.</p> <p>3. Supply and installation of new fans including new motors.</p> <p>4. In addition to above, the scope of work also includes the replacement of the existing condensing water drip trays of the chilled water coils.</p>	Yes / No / Explain		
4	TECHNICAL SPECIFICATIONS-CASING	<p>The GA drawing of the unit is enclosed with. Over all unit is Approx. 16.3 m long and 6.5 m wide. The height of the unit is 2.1 m and 4 m at different cross sections. The portion of the MAU to be changed in highlighted in the drawing and is approx. 4.3m x 6.5m x 2.1m. The entire casing/components in this portion including its doors, partitions, dampers, base, diffuser plate etc. needs to be replaced with new items.</p> <ul style="list-style-type: none"> <li>• The unit shall be of modular construction.</li> </ul>	Yes / No / Explain		
5	TECHNICAL SPECIFICATIONS-CASING Continue..1	<ul style="list-style-type: none"> <li>• The frame work shall be of extruded Al sections joined by moulded high tensile reinforced plastic and shall be assembled to provide a sturdy, strong and self-supporting frame work for various sections. Each section shall be complete with its own independent base and mounted on 14G galvanised sheet steel and aluminium die cast channels. Zinc deposition on the GI sheets shall be minimum 120 gsm.</li> </ul>	Yes / No / Explain		

6	<p>TECHNICAL SPECIFICATIONS-CASING Continue..2</p>	<ul style="list-style-type: none"> <li>The unit shall be of double skin, with 50+2 mm thick PUF insulation sandwiched panel, 1 mm GI outer skin pre coated and 0.8 mm thick SS Sheet inside. The density of PUF insulation shall be minimum 40 Kg/m<sup>3</sup>. The floor shall also be of minimum 0.8 mm thick SS sheet.</li> </ul>	Yes / No / Explain		
7	<p>TECHNICAL SPECIFICATIONS-CASING Continue..3</p>	<p>All the partitioning system shall be designed using solid angles/channels with sufficient stiffeners in place of sheet metal work. Over the structural members, the sheets shall be fixed using nuts and bolts in place of self tapping screws.</p> <ul style="list-style-type: none"> <li>The entire internal surface including floor, inner sheet of wall panels, partitions, stiffeners etc. shall be of SS of sufficient thickness.</li> </ul>	Yes / No / Explain		
8	<p>TECHNICAL SPECIFICATIONS-CASING Continue..4</p>	<p>The fans shall be mounted on the solid structural steel members with isolators in place of the sheet metal work.</p> <ul style="list-style-type: none"> <li>The frame work for new section shall be joined with the existing section with soft rubber gasket in between to make joints air tight.</li> <li>Suitable air tight access doors with Aluminium die cast heavy duty hinges and locks shall be provided for various sections.</li> </ul>	Yes / No / Explain		

9	TECHNICAL SPECIFICATIONS-CASING Continue..5	<ul style="list-style-type: none"> <li>• The casing shall incorporate thermal break profile and all other necessary design features to ensure that condensate does not occur during all seasons.</li> <li>• For uniform distribution of the air, 2 mm thick SS Diffuser plate should be provided.</li> <li>• To replace this section of the MAU, post heating coils needs to be taken out and will be assembled again during the assembly of the new hardware. Coils dismantling and assembly back is covered in the scope of the work.</li> </ul>	Yes / No / Explain		
10	TECHNICAL SPECIFICATIONS-FANS :	<ul style="list-style-type: none"> <li>• Quantity: Three (03) numbers, (2N+1 arrangement) with isolation dampers.</li> <li>• Capacity: 25000 CFM each</li> <li>• Total static pressure: 200 mm of WC</li> <li>• Fan Type: Direct driven, Plug type, centrifugal fan.</li> </ul>	Yes / No / Explain		
11	TECHNICAL SPECIFICATIONS-FANS Continue..1	<ul style="list-style-type: none"> <li>• Fans shall have backward curved blades.</li> <li>• MOC of impeller shall be SS/Aluminium alloy.</li> <li>• Motor and fan assembly shall be floor mounted and placed on solid structural steel members and on vibration isolators to reduce amplitude to less than 25-50 microns.</li> </ul>	Yes / No / Explain		

12	TECHNICAL SPECIFICATIONS-FANS Continue..2	<ul style="list-style-type: none"> <li>• Motor: Adequately sized (Approx. 45 KW), 1440 RPM, TEFC, high efficiency IE3 Class, Min IP55 rating as per latest IS standard, Squirrel cage induction motor, suitable for VFD drive and compatible for 400V + 10%, 3 phase, 50 Hz+ 5% AC power supply. As the fans will be high humidity for most of the time, the motor shall also be suitable for working in high humid environment. Accordingly, motor shall be TEFC type with minimum IP55 rating.</li> </ul>	Yes / No / Explain		
13	TECHNICAL SPECIFICATIONS-FANS Continue..3	<ul style="list-style-type: none"> <li>• Termination of Electrical Cables of Fan Motors with proper fittings and accessories are also under the scope of work.</li> </ul>	Yes / No / Explain		
14	TECHNICAL SPECIFICATIONS-FANS Continue..4	<ul style="list-style-type: none"> <li>• Flexible connection fabricated of neoprene coated flame proof fabric attached by screws or bolts at 6" interval to be provided. Flexible connection to be provided with the sufficient material width to prevent interference with the free operation of the fan vibration system.</li> <li>• Fan shall be factory statically and dynamically balanced as required to achieve field balance levels. If required balancing to be done after installation.</li> </ul>	Yes / No / Explain		



15	TECHNICAL SPECIFICATIONS-FANS Continue..5	<ul style="list-style-type: none"> <li>• Epoxy based coating shall be provided on all the surfaces of ferrous fan housing.</li> <li>• Vibration measurement shall be made in three orthogonal areas at each bearing location. Where equipment configuration precludes measurement at bearing, measurement shall be made on adjacent routine structure.</li> </ul>	Yes / No / Explain		
16	TECHNICAL SPECIFICATIONS-VOLUME CONTROL DAMPERS(VCS)	<ul style="list-style-type: none"> <li>• Quantity: Three (03) numbers.</li> <li>• Dampers should be Rectangular, heavy duty, good quality, low leakage type.</li> <li>• Frame: Material of Construction-GI/Al</li> <li>• Blades: Material of Construction - Extruded Aluminium</li> </ul>	Yes / No / Explain		
17	TECHNICAL SPECIFICATIONS-COOLING COILS DRIP TRAY	<ul style="list-style-type: none"> <li>• The existing drip trays of the Chilled water coils and Glycol coils are damaged due to rusting and replacement of same is covered in scope of the work.</li> <li>• MOC of drip trays: 1.5mm (approx.)thick SS</li> <li>• Quantity: 08 nos., approx. 3.2 m long, suitable for 8 rows deep cooling coils</li> </ul>	Yes / No / Explain		
18	ELIGIBILITY CRITERIA:	<p>Contractors meeting the below mentioned eligibility criteria are eligible to participate in the tender.</p> <p>1. Contractors must be an experienced HVAC contractor having experience in SITC of Air Handling units.</p>	Yes / No / Explain		

19	ELIGIBILITY CRITERIA Continue..1	<p>2. Contractor must have executed at least one work involving SITC of AHUs, piping etc. of value not less than 24 Lakh during the last 7 years.</p> <p>OR</p> <p>Contractor must have executed at least two works involving SITC of AHUs, piping etc. of value not less than 18 Lakh each during last seven years.</p>	Yes / No / Explain		
20	ELIGIBILITY CRITERIA Continue..2	Bidder to furnish copies of Purchase orders of their earlier completed similar works with Documents evidencing satisfactory completion issued by the respective clients/organizations to ascertain their eligibility for the work.	Yes / No / Explain		
21	COMPLETION PERIOD	The period for completion of the entire work shall be three (03) months to be reckoned from 5th day of the date of placement of the Purchase Order. The schedule for the material delivery is 2.5 months from the 5th day of date of PO and completion schedule of the entire dismantling/assembly work is 15 days from the day of go ahead from SCL.	Yes / No / Explain		
22	WARRANTY:	The vendor shall submit a written warranty for a period of two (02) years from the date of acceptance upon commissioning the successful / trouble free running of the entire system under scope of this work.	Yes / No / Explain		

23	WARRANTY Continue..	Any breakdown during warranty period shall be attended by the vendor at no extra cost within 24 hours of information including repair / replacement of the parts, if any, at his (vendor's) own cost. During the warranty period, the contractor shall provide total four (04) numbers of preventive maintenance visits in an interval of six months.	Yes / No / Explain		
24	ACCEPTANCE PROCEDURE:	The Performance & Quality parameters of the entire installation shall be monitored for at least 5 days after commissioning for satisfactory performance upon which SCL shall give its acceptance of the system.	Yes / No / Explain		
25	ACCEPTANCE PROCEDURE Continue..	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 5 days before the acceptance is given.	Yes / No / Explain		

26	GENERAL CONDITIONS:	<p>1. All tools, tackles, scaffolding etc. shall be in the scope of the vendor.</p> <p>2. Dismantled MAU structure along with Fans &amp; Fan Motors should be shifted to the place designated by SCL within SCL premises.</p> <p>3. Supply, unloading and shifting of new materials to the place of storage designated by SCL within SCL premises and shifting later to the place of Installation.</p>	Yes / No / Explain		
27	GENERAL CONDITIONS Continue..1	<p>4. Vendor should follow all Security checks and fire &amp; safety rules inside SCL premises.</p> <p>5. The safety of the persons deployed for installation of the Fans &amp; Fan Motors, Panels etc. shall be the sole responsibility of the vendor. All necessary safety gadgets shall be arranged by the vendor.</p> <p>6. The work is to be carried out in such way that there is no damage to the other material during installation.</p> <p>7. Proper cleanliness is to be maintained during execution of work.</p>	Yes / No / Explain		

28	GENERAL CONDITIONS Continue..2	8. Vendor shall provide prior intimation to start work so the necessary shutdown of 8 Inch Make- up air unit (MAU) could be planned. The installation will be done after confirmation by SCL. 9. Vendor to submit all details/drawings for SCL approval before ordering of fans, fan motors, wall panels, dampers, condensing drip tray and diffuser plates.	Yes / No / Explain		
29	GENERAL CONDITIONS Continue..3	10. The Fans shall be pre-balanced and Test Certificates for all the fans and its motors shall be provided at the delivery time. 11. In case of any clarification, Vendor may contact 0172-2296476 visit site on any working day between 10 AM to 4 PM.	Yes / No / Explain		
30	RECOMMENDED MAKES:	<ul style="list-style-type: none"> <li>• Fans: Kruger/Ziehl Abegg/Nicotra/Flaktwoods/Greenheck/Cometri</li> <li>• Motors: ABB/Siemens/Crompton Greaves/Bharat Bijlee/NGEF</li> <li>• Casing: Citizen/Ethos/Voltas/Blue Star/Carrier/VTS/Systemair/Edge Tech/Zeco</li> <li>• Volume Control Dampers: Systemair/Caryaire/Ravistar/Air Master/Spryair Equipments/Crescendo India</li> <li>• SS sheet: Sail/Tisco/Jindal/Ispat</li> </ul>	Yes / No / Explain		

### Supporting Documents required from Vendor

**1. Copies of Purchase order/ Work order and their Completion certificates in support of the Eligibility Criteria (mentioned in General Specifications Sr. No-18,19 & 20).**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Material shall be delivered at Site in SCL without any damage.	Yes / No / Explain	
2	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. The prices should only be quoted in Price Bid template	Yes / No / Explain	
3	<b>DELIVERY TERMS :</b> 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	
4	<b>GST:</b> 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	
5	<b>COMPLETION PERIOD:</b> The period for completion of the entire work shall be three (03) months to be reckoned from 5th day of the date of placement of the Purchase Order. The schedule for the material delivery is 2.5 months from the 5th day of date of PO and completion schedule of the entire dismantling/assembly work is 15 days from the day of go ahead from SCL.	Yes / No / Explain	
6	<b>VALIDITY:</b> 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	

7	<p><b>SECURITY DEPOSIT:</b> 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 followed by a letter of confirmation as hard copy at the following email ids: njain@scl.gov.in CC: harjeet@scl.gov.in jarnail@scl.gov.in</p> <p>In addition the banker may send a scanned copy of the BG as an attachment.</p>	Yes / No / Explain	
8	<p><b>Warranty:</b>The vendor shall submit a written warranty for a period of two (02) years from the date of acceptance upon commissioning the successful / trouble free running of the entire system under scope of this work. Any breakdown during warranty period shall be attended by the vendor at no extra cost within 24 hours of information including repair / replacement of the parts, if any, at his (vendor s) own cost. During the warranty period, the contractor shall provide total four (04) numbers of preventive maintenance visits in an interval of six months</p>	Yes / No / Explain	
9	<p><b>WARRANTY REPLACEMENTS:</b> 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	



10	<p><b>TERMS OF PAYMENT:</b></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><b>PERFORMANCE BANK GUARANTEE (PBG):</b> 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 Ids, followed by a letter of confirmation as hard copy:</p> <p>njain@scl.gov.in</p> <p>CC: harjeet@scl.gov.in jarnail@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><b>DELAY IN COMPLETION/LIQUIDATED DAMAGES:</b>  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. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.  Delivery of stores shall be complete on Installation, commissioning, Testing and Acceptance.</p>	Yes / No / Explain	
13	<p><b>EXTENSION OF TIME :</b>  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><b>Labour Law:</b> 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><b>ARBITRATION:</b> 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><b>APPLICABLE LAWS:</b> 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	<p>Conditions in respect to Bidder from a country which shares land border with India: i) Whether the vendor/Supplier is from any country sharing land borders with India or whether the vendor/Supplier is representing any principal vendor/supplier sharing land borders with India. ii) If the vendor/supplier is from any country which shares land borders with India, or if the vendor/supplier is an Indian Agent representing principal vendor/supplier of a country which shares land borders with India, they shall submit photocopy documentary proof of Registration with Registration Committee constituted by Department of promotion of Internal Industry and Trade [DPIIT]. The provisions of following Orders issued by Department Of Expenditure, Ministry of Finance are applicable in this regard: (a) Order (Public Procurement No.1) Nos.6/182019-PPD dt July 23, 2020. (b) Order (Public Procurement No.2) Nos.6/182019-PPD dt July 23, 2020 (c) Order (Public Procurement No.3) Nos.6/182019-PPD dt July 24, 2020 on clarification to Order (Public Procurement No.1) dt July 23, 2020. iii) Offer received from vendor who fall in this category but does not submit copy of documentary proof of Registration shall be rejected.</p>	Yes / No / Explain	
20	<p>The participating Vendor shall mention the name,their Company and address for placement of PO and also indicate he details such e-mail,Name &amp; designation of the contact person for seeking clarification if required during evaluation stage.</p>	-	
21	Any Other Term:	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	Supply of Direct driven, plug type centrifugal fans having capacity of 25000 CFM and total static pressure of 200 mm of WC	3.00 Nos.				
2	Supply of Make-up Air Unit (MAU) fan section structure of modular construction, double skin, with 50±2 mm thick PUF insulation sand-witched panel etc.	1.00 Lot				
3	Supply of SS drip trays, min. 1.5 mm thick. 3.2 m long	8.00 Nos.				
4	Assembly of the fan section casing complete with fans, dampers, flexible connections, partitions, diffuser plate, doors etc.	1.00 Lot				
5	Installation of SS drip trays, min. 1.5 mm thick. 3.2 m long	8.00 Nos.				
6	Dismantling of the existing fan section, fans, dampers, floor etc.	1.00 Lot				