

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

Tender Notice

NIT No. : IACS/WS/SB/2016-17 /69

Date: 09/12/2016

Sealed item rate tender in two bids system (technical bid and price bid) is invited from bonafide and resourceful proven Indigenous manufacturer/exclusive distributor/ authorized Dealers for **Supply, Installation, Testing and commissioning one PSA Oxygen Generator of 5 Nm³/hr capacities for Glass Blowing Section of Workshop-IACS**

Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions.

Part-II (Price Bid) should clearly indicate group-wise price, as mentioned in the technical bid.

The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and super scribed with tender notice no. and due date. The bidders are requested to submit bids duly signed with forwarding letter.

Completed tender bids should be addressed to the **Registrar, IACS** and which will be received by the **Receiving and Dispatch Section, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on or before the scheduled date and time specified below:

Cost of Tender	Tender paper may be purchased from Workshop/IACS, Jadavpur against payment of Rs.500/-(Rupees Five Hundred only) per set (non-refundable) in cash. Otherwise it can be down loaded from our web site (www.iacs.res.in) where cost of the tender Rs. 500.00 to be submitted through Demand Draft or Pay Order or Banker's Cheque of a scheduled bank in favour of "Indian Association for the Cultivation of Science", payable at Kolkata, with their tender otherwise their tender will be summarily rejected.
Tender Issue Date	18/12/2016
Last date of application & issue of tender	26/12/2016
Last date and time of submitting tender	30/12/2016 (up to 2.00 pm)
Pre-bid meeting to discuss technical specification	26/12/2016 at 3.00 PM (At Meeting Room, Workshop, IACS)
Date and time of opening tender	30/12/2016 at 3.00 PM (only Technical Bid)
Place of opening tender	Meeting Room, Workshop, IACS
Contact	Email: wssb@iacs.res.in or wsd@iacs.res.in Tel.+91 33 2473 4971 [Ext. 1700]

Tender opening: The technical bids will be opened first to judge/evaluate the technical specifications of the said oxygen generator and thereafter the price bids of only technically qualified bidders will be opened. the tenders will be open in presence of the intending bidders.

Technical Bid Evaluation: The Technical Bids will be evaluated first to prepare a list of the technically qualified bidders.

Opening of price-bid: The Price Bid(s) of the bidders qualifying the technical bid will only be opened. The date & time of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be treated as rejected.

TECHNICAL SPECIFICATIONS OF 5 Nm³/hr PSA OXYGEN PLANT:

DESIGN BASES:

- Total no of Glass Blowing Bench Burner working : 5 nos
- Oxygen consumption at 1 burner : 1 cylinder in 2 days (working hrs 8)
7 M³/ 8 hrs = 0.87 M³/hr
- Oxygen consumption for 5 burners : 0.87 M³/hr X 5 = 4.3 M³/hr
- Pressure required at the burner : **5-25 PSI** (0.35 - 1.75 kg/cm²)
- Oxygen Capacity : 5 Nm³/hr

PRODUCT GAS SPECIFICATIONS:

- Capacity : **5 Nm³/hr**
- Oxygen Purity: **93.0 ± 2.0 %**
- Pressure of product gas : **3 kg/cm² (±1 kg/cm²)**

SCOPE OF SUPPLY

- Screw Air Compressor.
- Activated Carbon and Micron Filter.
- Air receiver, Oxygen surge tank etc.
- Complete packaged PSA unit filled with first charge of alumina and Molecular sieves with changeover valves, sequence programmer & interconnected piping etc.
- Control panel with sequence timer.
- All instruments, fittings, isolation valves etc. required for the complete system.
- Oxygen Analyzer
- Oxygen Storage tank

MAKE OF MAJOR COMPONENTS

- Air Compressor : Atlas Copco/ IR/ Equivalent.
- Activated alumina : IPCL/Equivalent.
- Molecular sieves : UOP(USA)/ Equivalent.
- Solenoid valves : Schrader / Rotex / Equiv.
- Control panel component : L&T / ABB / EE / AE / Siemens/ Equivalent.
- Pressure switch : Switzer / Danfoss / Equiv.
- Press. indicator : H. Guru / Febig / Equiv.
- Rotameter : IEPL/ Equivalent.
- Oxygen Analyser : Artech/ Technovation/Citi-UK/ Equivalent.

DOCUMENTATION

- P&I Diagram for the system.
- Power & Control circuit. drawing for the system.
- Equipment layout / foundation drawing.
- Operation and maintenance manual.
- Catalog for major items.

Guarantee : One Year from the date of successful Commissioning or 18 months from the date of supply whichever is earlier. Manufacturer's Guarantee and routine test certificate should be furnished by the supplier along-with each supply where ever applicable.

Guarantee certificate, users manuals etc. are required to be handed over to the user after successful commissioning of the system and before submission of final bill.

2. PRICE BID

The Price bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as 'PRICE BID' on the outer cover of the envelop as already detailed above. Price bids of only technically qualified bidders will be opened and they will be intimated the date and time of the opening of price bid at their e-mail ids. Rest of the bids will stand rejected.

3. EARNEST MONEY Deposit: (EMD)

a. An Account payee Demand Draft/Pay Order/Banker's Cheque of any scheduled bank (No other form will be accepted) for Rs. 26100.00 (Twenty six Thousand one hundred only) drawn in favour of "**Indian Association for the Cultivation of Science**" is to be furnished by the bidders in a separate envelop duly super scribed as EMD. First the EMD envelop will be opened and if it is found not according to NIT, the Tender will be summarily be rejected. **The EMD envelope should be placed inside the technical bid.**

b. The Demand Draft for the EMD should have at least 90 (ninety) days validity period of opening of the bids.

c. The EMD would be returned to the unsuccessful Bidders against submitting an application for refund of EMD.

4. PERFORMANCE Bank Guarantee (PBG):

Performance Bank Guarantee (PBG) @ 10% of the order value in the name of "**Indian Association for the Cultivation of Science**" is to be furnished by the successful bidder as Performance security. Performance security should remain valid for a period of 30 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. EMD will be refunded to successful bidder on receipt of the Performance security. The PBG will be treated as Security deposit. No further deduction will be made from the bill. However TDS extra will be made as per rule.

5. Delivery Schedule:

Delivery has to be made within **60 days (Sixty Days)** from the date of receiving the Order. The delivery schedule should be quoted on FOR destination (door delivery) basis. Date of supply, must be very clearly indicated in the Technical Bid to be submitted.

6. Liquidated Damage : Liquidated damage for delay in supply will be imposed upon the supplier @ 1% of the order value per week or part thereof subject to a maximum of 5% of the Order value. Further delay beyond 7 days may not be accepted and the order may be treated as cancelled, if no reasonable and sufficient cause is found. However delay due to natural calamities is considerable.

Cancel the supply order or a portion thereof if IACS decides purchase of equipments at the risk and cost of the defaulting supplier as also.

7. Payments: 100% of the bill value will be released after commissioning subject to submission of PBG amounting to 10% of the bill value.

GENERAL INSTRUCTIONS

1. Validity of tender: Tender submitted should remain valid for at least sixty days from the date of opening the tender. Validity beyond sixty days from the date of opening of the tender shall be considered by mutual consent.
2. Offer should confirm to the specification as per schedule. The tender should accompany a compliance chart.
3. Quotation duly signed on all pages of the tender/offer including all enclosed should be submitted.
4. Quotation erased and overwritten will be rejected.
5. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
6. Tender form must be returned along with quotation duly signed and stamped as a token of acceptance of all the terms & conditions of this tender. Tender forms purchased by one firm are not transferable to another firm.
7. Your printed terms & conditions of sale shall not be considered for our acceptance.
8. Rate must be quoted in unit mentioned in the schedule.
9. Manufacturers trade marking etc. must be indicated in the offer and the same should be impressed on each equipment.
10. Suppliers will also have to punch on each equipment with manufacturer identification mark.
11. Attested/photocopy of sales tax/VAT/ Pan Registration certificate must be enclosed with the offer.
12. Tender must give location and complete address of their works. They will submit list of plant & machineries available for manufacturing and testing of equipments, if applicable.
13. Tenderer intending to attend the tender opening should bring proper authorization letter from the management to attend the tender opening.
14. All disputes are subject to KOLKATA Court Jurisdiction.

15. **SPACIAL CLAUSE:** Any deviation from the above terms & conditions may make your offer liable for rejection. You will confirm in your commercial offer that you have gone through the terms & conditions and you will agree with them.
16. Credential documents in support of the quoted equipment must be enclosed if any.
17. Minutes of the pre-bid meeting shall form a part of the NIT. No changes after issuance of Minutes of Meeting are permitted. The Minutes of Meeting will be uploaded in the IACS website www.iacs.res.in . However it is requested to visit the IACS website regularly by the participating bidders to get the updates (if any).
18. Please note that IACS will not provide any accommodation or reimburse any expenses to any of the bidders for attending pre-bid meeting, opening of technical bid and price bid
19. Installation/Demonstration/Application training at site: Users training at IACS should be provided, free of cost by the supplier. The Oxygen Generator may be inspected by the Representative of IACS before delivery.
20. Service facility: In India, preferably Kolkata, supplier should mention their details of service setup and man powers that are responsible for after sales support. Response time should be within 24 hrs. After-Sales Service: During warranty period, your engineer / any authorised person shall check the machine and Oxygen Concentration every three months. After-sales service should be provided as and when required by the user / consignee
21. The model number, make and a printed literature (photocopy will not be accepted) of the product should be submitted positively. The equipment must be accompanied by manufacturer's catalogue containing the operation and maintenance manual, installation and commissioning instruction, spare parts list drawing circuit diagram wherever required etc.
22. Manufacturers / exclusive distributors / Authorized Dealers should have history of supplying this type of instruments to IACS or other scientific organizations or other organizations etc. Credentials in this regard should be submitted.
23. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly. Documents to be furnished should be duly attested by the manufacture.
24. If holiday is declared on the due date of submission of tender, the tender can be submitted on the next working day up to 2.00 pm. Opening of the Technical bid will be on the same day at 3.00 pm.
25. In case of any dispute, the decision of IACS authority shall be final and binding on the bidders.
26. Unless otherwise specified in the NIT, all other terms & conditions will follow the CPWD Works Manual, 2014 or GFR 2005 as applicable.
27. Routine test certificate of the manufacturer should be provided at the time of delivery of equipment or submission of bill without which payment cannot be processed.
28. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

S.N Maulik
Acting Registrar

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Technical compliance chart should be provided following format:

Sr. No	Tender specification	Your offered instrument specification	Extent of compliance
1	<i>Capacity : 5 Nm³/hr</i>		
2	<i>Oxygen Purity: 93.0 ± 2.0 %</i>		
3	<i>Pressure of product gas : 3 kg/cm²g (±1 kg/cm²g)</i>		

(Signature of the bidder with stamp)

Date: