

Indian Association for the Cultivation of Science

2A & 2B , Raja S.C. MALLIK Road , Jadavpur, Kolkata -700032, West Bengal, India,

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Tender Notice

NIT No.: IACS / WS / Desiccant Dehumidifier (PURCHASE) /2024-25 / 48 ,
Dtd.03/02/2025

Sub : Purchase Enquiry for 1no. Desiccant type Dehumidifier (Dehumidifier , Model - FFB - 600 , Eng. Model , 600 CMH / 360cfm) unit for IACS, Jadavpur. for Prof.Nabanita Deb's Lab

Sealed item rate Tender in single bid system (Technical bid & Financial bid) is invited for purchase of 1no. **Desiccant type** Dehumidifier unit from Nationally/ Internationally established original manufacturers or their authorized distributors having marketing and servicing establishment all over India including Kolkata (it is a must to qualify a bidder in the technical bid) or from their authorized distributors/dealers who have supplied and installed at least 10 nos. unit of similar capacity or above to Government Organization /Government Research Institute or Highly Reputed Private Organization for Industrial / Research Application etc. during the last 6 years reckoned from the date of issue of this purchase enquiry notice . Therefore, interested parties may please send the offer ("**Technical Bid**" & "**Financial bid**" in a **sealed envelope as it is a single bid system**) to the Receiving & Despatch Section of IACS, Jadavpur on or before 24/02/2025 (up to 3 p . m .) mentioning **the item of purchase, Enquiry no. & due date on the top of the envelope**, which (Technical Bid and Financial bid) will be opened on 24/02/2025 i.e. on the same day at 4.30 p.m. in presence of the intending bidders under the following terms & conditions. If holiday is declared on the schedule date of opening, the Technical Bid / bid will be opened on the next working day at 4 .30 P.M. ***The Technical bid shall contain the credential to fulfil the eligibility criterion as asked for in this purchase enquiry notice, earnest money deposit (EMD), printed product literature / technical specification of the product to be offered, VAT /GST registration certificate, PAN, Dealership/Distributorship Certificate (in case of dealer or distributor) issued by the manufacturer, client list, warranty provision, test certificate etc along with this tender document duly filled in all respect and properly signed & sealed in all pages and any other documents considered to be essential to establish their credibility EXCEPT THE PRICED OFFER. THE PRICE BID SHALL INCLUDE THE PRICED OFFER ONLY. The sealed envelope should bear the name of work , NIT no. and due date of opening of bid , on the top of the envelope and should reach the Registrar, IACS, Jadavpur, Kolkata 700032 on or before the scheduled date & time specified below.*** The down loaded tender document should be submitted with bid along with a Bank Draft./ Bankers cheque of Rs. 526/- (500/- + 5% GST = Rs.526/ -,CGST & SGST@ Rs.12.50 rounded to Rs.13.00 each) , as Tender paper cost(non refundable) .
Total estimated cost (approx.) = Rs.587511 /-(Inclusive all)

Tender Notice No./ NIT No.	IACS/WS/ Dehumidifier (Purchase) /2024-25 / 48 , Dtd. – 03/02/2025
Last date and time of submitting tender	24/02/2025 upto 3.00PM
Pre-bid meeting to discuss technical specification and other related matter	Not applicable
Date and time of opening tender (Technical Bids)	24/02/2025 at 4.30 PM
Contact Details	S. Mallik (Ext. 2402)

Terms & Conditions :

- 1) The offer / BID should be valid for minimum 60 days for acceptance of the same. **The quoted rate should be inclusive of all taxes, delivery charges etc.** Nothing extra will be paid except to the accepted rate.
- 2) **Delivery at site at bidder cost and risk within 60 days from the date of receiving Purchase Order or at the written permission of IACS, failing which this order will be cancelled & EMD will be forfeited.**
- 3) **Payment : Payment is likely to be released within 45 days from the date of submission of bill against successful delivery, installation, testing & trial run/commissioning.**
- 4) An Earnest Money (EMD) of Rs.17625 /- i.e. 3 % of the estimated cost (Rupees Seventeen Thousand six Hundred twenty five only) , to be enclosed with the quotation (i.e. with the Technical bids) favouring "Indian Association for the Cultivation of Science" through pay order/ demand draft on local Bank which will be released to the unsuccessful bidders on demand after issuing the Work Order / Purchase Order to the successfully bidder . The EMD shall not carry any interest & the same will be released to the successful bidder after receiving performance bank Guarantee / security deposit from the successful bidder or as per direction of competent authority of IACS .
- 5) **Installation should be completed within 15 days from the date of delivery of Dehumidifier or as per direction of IACS .**
- 6) **Financial bid will be considered from those bidders who qualified in technical bid .**
- 7) The Successful bidder (i.e. Technically and financially qualified) should supply the dehumidifier within 60 days from the date of receipt of Purchase Order / Work Order , failing which EMD will be forfeited & Order will be cancelled without any further notice & the supplier/ vendor will be delisted from the Vendor list of IACS.
- 8) The quotation should be enclosed with printed **technical literatures** of the product to be offered along with a list of credentials and other relevant documents fit to be essential to establish your position.
- 9) **The bid must carry the signature (with company seal) of authorized signatory of the Company /firm on each page of this purchase enquiry document along with other documents as asked for to be submitted with their bid.**
- 10) Bill should be submitted after successfully installation , commissioning of **Desiccant type Dehumidifier.**
- 11) The Successful bidder must supply their quoted model within stipulated time which has been mentioned in the tender , failing which EMD will be forfeited & Order will be cancelled without any further notice & the supplier/ vendor will be delisted from the Vendor list of IACS.
- 12) Only one model should be quoted by the bidder against this tender . The bid / tender documents will be automatically cancelled without any notice / communication , if the bidder quote more than one model of Dehumidifier in this tender .
- 13) There will be no price escalation except for any changes or imposition of Govt. Levies from the date of opening of tender.
- 14) Complete Purchase Enquiry Document will be available at www.iacs.res.in / Tender and the same should be downloaded from IACS website for submission . **Conditional offer including conditional rebates shall be summarily rejected.**
- 15) The compliance list (Technical Specification sheet) as provided with this purchase enquiry document must be filled in all respect as per our measurement units and to be submitted with the offer.
- 16) **The IACS authority reserves the right to reject any or all the offers without assigning any reason thereof.**
- 17) The successful bidder should have servicing establishment at Kolkata (it is a must to qualify a bidder in the technical bid).
- 18) Bill should be submitted after successful Installation of **Desiccant type Dehumidifier.**

- 19) Authorized dealership certificate should be provided in case of Principal manufacturer is not participating directly/ bidding directly.
- 20) The supplier shall make his own arrangements for supply and installation of materials at the purchaser's site.
- 21) Value of each item with total and grand total of whole tender should be written clearly. Corrections or overwritten amounting to unreadable may disqualify the tender. Clerical and arithmetical mistakes may result in rejection of the tender.
- 22) The purchaser may alter the quantities of material at the time of placing of orders and may split order among more than one bidder.
- 23) The E.M.D shall be forfeited if a bidder withdraws its bid during the period of bid validity.
- 24) The tender documents should be down loaded from IACS website .
- 25) Rs. 500 /- + 5% GST = Rs.526/ (CGST & SGST @ Rs.12.50 rounded to Rs.13.00 for each) per set non - refundable Demand Draft/ Pay Order to be paid (with the bids) as a tender paper cost in favour of Indian Association for the Cultivation of Science payable at Kolkata from a scheduled Bank positively along with the tender/ quotation in a separate Envelope without which the tender will summarily be rejected.**
- 26) Prospective bidders may please refer to our website <http://www.iacs.res.in/> tender , occasionally for any update on the tender which may appear from time to time either in respect of pre-bid meeting , corrigendum or otherwise.
- 27) IACS reserves the right to increase/decrease the specified quantities of any item (s) given in the tender .
- 28) Payment will be released against submission of original Challan.
- 29) Warranty period : one year from the date of completion of installation work.**
- 30) Part supply & part payment, advance payment will not be entertained.
- 31) Bill should be submitted after successful completion the installation & commissioning Work.**
- 32) Unless otherwise specified in the NIT, all other terms & Conditions will follow as per GFR 2017 ..
- 33) The successful tendered / bidder shall furnish a performance Guarantee (PG) of 10% of the total contract price before the purchaser at the time of delivery of Goods and the same will be released after expiry of warranty period of desiccant type Dehumidifier . In case of non-submission of Performance Bank Guarantee , Security Deposit @10% (OR as per direction of competent authority of IACS) of Invoice value will be deducted from the bill of successful bidder and shall be kept for one year after which it will be released or it will be released as per direction of the competent authority of IACS . The performance Guarantee /security deposit shall not carry any interest. Also, the successful bidder will have to submit a letter to get back their Security Deposit.**
- 34) The successful bidder should be fully responsible to supply all items as per specification and Model as quoted by them in the bid/tender , failing which EMD will be forfeited & Order will be cancelled without any further notice & the supplier/ vendor will be delisted from the Vendor list of IACS. The alternate model will not be accepted.
- 35) The conditional tender/bid will not be accepted .**
- 36) The contract / work order shall normally be awarded to the lowest evaluated bidder whose bid has been found to be responsive & who is eligible & qualified to perform the work satisfactory as per the terms & conditions incorporated in the NIT . The IACS reserve the option / right to select more than one firm for award of contract for difference machines to ensure uninterrupted servicing / repairing during the currency of the contract.

37) The tender document should be duly signed and sealed on every page including annexure, if any.

38) Mode of payment of GST : 5% , 18% GST will be payable against GST exemption certificate of DSIR , which will be issued by IACS later on , otherwise , GST will payable as per direction of competent authority of IACS. The bidders (including successful bidder) also ought to accept this , failing which EMD will be forfeited and no. further Order will be issued in favour of successful tendered / bidder .

39) The contractor shall be fully responsible for hand over all items in working condition.

40) The damage caused , if any , either to the machines / dehumidifier or to any other property of IACS through the negligence or otherwise , shall be at the risk , cost & responsibility of the contractor / supplier .

41) The contractor shall be responsible for removing the debris arising out of the works under this contract & shall ensure that the site is cleared of all such debris by proper disposal without any extra cost, whatsoever.

42) Any number of break down calls to be attended by the contractor / vender /supplier during the warranty period.

43) The contractor shall take all necessary precaution for the safety of the workers & preserving their health while working in such job as per Govt. norms.

44) If in any case , the firm is not able to do the work , the same shall be got from some other firm or from the open market at the cost of contractor & the extra expenditure incurred thereon shall be recovered from him . This shall entail the termination of the contract , forfeit of the performance security & debar for any future contracts from IACS for at least three years .

45) An acceptance letter should be submitted within 24 hours by the successfully bidder after receiving the Order.

Registrar

Technical Details :

We require Dehumidifier to maintain Relative Humidity : 45 +/- 5% RH

Lab area / Room Volume : 23ftX 16 ft X 11 ft.

Relative Humidity : 45 +/- 5% RH

Room Temp. : Ambient

Doors : Nil

Doors opening per hour : Nil

People in room : 2-4 people

Fixed opening = Nil

Infiltration Air = nil

Exhaust Air = Nil

Room : Concrete

Fresh Air : Nil

AC = 4 NOS.

Required Technical Specification for of Dehumidifier :-

- 1) Supply of dehumidified air : 600 CMH / 360cfm
- 2) Power : 415V/3Ph /50Hz
- 3) The Dehumidifier will be equipped with a microprocessor based controlling system having an LED Display indicating the status of input .
- 4) Humidistat with digital display.
- 5) CNC Fabricated unit with pre-coated MS Sheet .
- 6) The dehumidifier has an eco dry rotor and is totally self - contained.
- 7) The desiccant rotor should be in horizontal orientation.
- 8) Process and reactivation air flow sectors insulated with Aluminium foils, unique PTFE Bonded bulb seal design ; minimum air leakage .
- 9) The desiccant rotor is made of a fluted honeycomb type with stainless steel perimeter flange to incorporate robust internal structure required for industrial quality , durability and easy serviceability and also to extend media and seal life. No wastage of active desiccant wheel media.
- 10) The desiccant rotor is non - flammable and its media shall have high performance metal silicates synthesized in situ.
- 11) Differential air pressure switch to control reactivation of air flow and indicate clogging of filters .
- 12) High temperature thermostat cutout to economize the power consumption .
- 13) Additional cooling thermostat as a safety measure.
- 14) Additional cooling thermostat as a safety measure .
- 15) Electrical interlocking of fan motor, heaters and rotor drive as a safety measure.
- 16) PTFE bonded silicon bulb seal is designed to minimize air leakage .
- 17) Dehumidifier has an option to control reactivation temperature , system parameters .
- 18) An additional higher static fan for processing side air mounted on the top of the dehumidifier has a nominal external static pressure of 1 inch , process air fan and motor assembly - fan size 7 inch X 2.5 inch (approx) ,2800 rpm ,class <1 ,Arrangement - 4 , SISO , CWUB Rotation and discharge from MOTOR SIDE , process fan motor 0.5 hp , BBL Make ,2 pole , TEFC , B-5 ,415 /3 /50 , frame 71 , IE2
- 19) Air Inlet Filter : Aluminium Wire Mesh
Process air inlet pre filter size: 195(L) X 350(H) X 50mm thk. Box type EU3
Process Air Inlet Fine filter size: 195 (L) X350(H) X 150MM THK. Box , Type EU7
- 20) OEM should have more than 20years of manufacturing experience with ISO 9001:2015 Certifications .
- 21) Adequate factory trained service engineers in Eastern Region office to provide prompt after sales service .
- 22) Dimension of Dehumidifier not more than : 1271 mm (L) X 1122 mm (D) X950 MM(H)
- 23) Having the facility to show the design performance at controlled lab / test facility. The facility should have the ability to show rotor performance at the design conditions and also at a few design points representative of the expected conditions to be seen at site during the year / changing ambient conditions. Various aspect at the lab such as configuration , regeneration air flow and temperature , process inlet and outlet conditions should be covered at the lab level for witness test .

Registrar

Price Bid Format :

Sl No.	Description of Work (supply , installation & commissioning of one no. desiccant type dehumidifier , FFB -600 , Eng. Model)	GST	Price (without GST)
01	one no. desiccant type dehumidifier machine . (Size : 600 CMH / 360cfm , along with digital Humidistat , FFB -600 , Eng. Model)	18%	
02	Supervision of installation and commissioning charges, if any	18%	
03	Air proof ducting fabrication and erection including supply of all materials i.e. 24 s.w.g. G.I. sheet , leak proof joint making by silicon , 24 nos. full threaded 8mm rod , 3 pcs. support angle and slotting channel etc. Size : 12 inch X 8 inch X 122 ft. supplying and laying for supply and return ducting Line. Approx. Area : 475 sq.ft.	18%	
04.	Grill supplying and fitting Size : total area 8 sq.ft. (Approx)	18%	
05	Foundation making by 40X40X5 MS Angle to install Dehumidifier on the foundation at roof.	18%	
06	Covering the Dehumidifier at roof. Cover making by 40X40X5 MS angle Size of cover : 4ftX4ftX5ft height	18%	
07	2 nos. hole cutting and finishing by sand and cement (for supply and return line)	18%	
	Grand Total (including 18% GST)		

