

Ref No : PUR/IMP/LPCMGKMUVIT/14/2012-13.

August 27, 2012.

M/s.

Dear Sir/s,

The Director, Indian Institute of Astrophysics, Bangalore, invites Sealed Tenders (commercial bid) for the Import of **“Laser Particle Counter Model : Lasair-III-310C with T & RH probe”** as per the attached Technical Specifications (Annexure - B). The terms and conditions may be noted from IIA Website and if you are in a position to quote for the supply in accordance with the requirements, please submit your quotation. The Tender documents and other details are available on IIA web site www.iiap.res.in/tenders.htm

The Tender bids must be in foreign currency only. Your completed Tender bid must reach our office on or before 27/09/2012 by 15 00 hrs. The bid must be in Sealed envelope duly superscribed with the name of the supply and the Due Date and must reach this Office within the Due Date and time. The bid will be opened in the presence of the bidders or their authorized representative of the Company by 15.30 hrs on 27/09/2012. Incomplete Bids are liable for rejection.

For any Technical clarification you may contact during Office hours Shri S Kathiravan, (Phone No.79-31972 - 31952) and for any commercial clarifications can contact Shri Y.K.Raja Iyengar, Purchase Officer (Phone No.22541244).

Thanking you,

Yours faithfully,

Y.K.Raja Iyengar
Purchase Officer

PUBLIC TENDER DOCUMENT No : PUR/IMP/LPCMGKMUVIT/14/2012-13.

DT : 27/08/2012.

TENDER FORM

FROM:

TO

THE DIRECTOR
Indian Institute of Astrophysics,
Bangalore - 560 034.

Sir,

I/We hereby offer to supply the Items/Equipment indicated below at the price hereunder quoted and agree to hold this office open till . I/We shall be bound to supply the items/Equipment hereby offered upon the issue of the Purchase Order communicating to the acceptance thereof on or before the expiry of the last mentioned date. You are at liberty to accept any one or more of the items such Items/Equipment. I/We notwithstanding that the offer in this tender has not been accepted in whole, shall be bound to supply such items and such portion or portions of one or more of the items as may be specified in the said Purchase order communicating the acceptance.

S No. Description of the item(s) Qty. Unit Rate Dely. Period

- 1. Laser Particle Counter Model : Lasair-III-310C
with T & RH probe” as per the attached Technical Specifications (Annexure - B)**

(Tender bids should be in Foreign currency only)

Place at which the Delivery is required : Indian Institute of Astrophysics
Bangalore - 560 034.

Date by which the supplies are required : 4 weeks from the date of order.

2 I/We have understood the items of the tender annexed to the invitation to the Tender and have thoroughly examined the specifications/drawing and / or pattern quoted or referred to herein and / are fully aware of the nature of the items/ Equipment required and my / our offer is to supply the items/ Equipment strictly in accordance with the requirements subject to the terms and conditions contained in the Purchase order communicating the acceptance of this tender either in whole or in part.

Date :

Signature and Seal of Supplier

Annexure - A

INSTRUCTIONS TO SUPPLIERS

1. Tenders should be sent in a sealed and superscribed envelopes with mention of Tender No. date and date of opening. Only one Tender should be sent in each envelope.
2. Late and Delayed tender will not considered at all.
3. Duties, Taxes where legally leviable and intended to be claimed should distinctly shown separately in the Tender.
4. a) Your quotation should be valid for 90-120 days from the date of opening of Tender.
b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the Tender form, relationship between the two sets of units must be furnished.
5. a) All available Technical Literature(s), Catalogue(s) and other data in support of the specifications and details of the item(s) and Samples should be furnished / submit along with the offer.
b) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should indicated in your offer.
c) Air freight/sea freight charges up to Bangalore Airport may be sent along with the offer.

d) Specifications:

Items / Equipment offered should strictly conform to our specifications. Deviation, if any should be clearly indicated by the Supplier in their quotation. The supplier should also indicate the Make / type No. of the stores offered and provide catalogue(s), Technical literature(s) and sample(s), wherever necessary along with the quotations. Test certificates wherever necessary should be forwarded along with the supplies. Whenever options are called for in our specifications, the Supplier should address all such options. Wherever specifically mentioned by us, the Supplier could suggest changes to specifications with appropriate response for the same.

1. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
2. The supplier should supply along with the tender, the Banking information for payment or any other purpose.
3. A complete set of instruction and operation manual should be supplied.
4. Final performance should be guaranteed.

Technical Specifications (ANNEXURE - B).

NAME LASER AEROSOL PARTICLE COUNTER MODEL LASAIR-III-310C

The particle counter shall be a portable air particle counter that shall monitor 6 size channels (0.3, 0.5, 1.0, 5.0, 10.0 and 25.0 um) with a sampling rate of 1 CFM (28.3 LPM) and shall be designed to meet the new ISO 21501 calibration and performance standard.

The particle counter shall use the latest IR touch screen with user-friendly interface as well as utilizing a light weight carbon nanotube impregnated outer casing (PPS material), exhibiting excellent chemical resistance and anti-static properties and shall be designed for efficient cleaning and sanitization.

The system shall include Ethernet and RS-232 communications outputs, and shall accept up to 4 analog 4-20 mA inputs for connection to external environmental sensors. It shall feature a built-in thermal printer, user settable alarms, storage of 3,000 sample points and an 8.4 inch color touch screen display. It shall be remotely operated from a network PC or locally via the touch screen, operating from the included internal Li-Ion batteries or using mains electrical supply.

Three USB ports shall be included as standard. These allow data transfer in secure files to a PC while maintaining 21 CFR Ch 11 data integrity. Alternatively, data can be quickly downloaded in Excel compatible files.

Particle counter shall produce statistical calculations and final reports for ISO 14644-1, EU GMP or Fed Std 209E with fully validated recipes to ensure correct performance of clean room classification to these standards.

- Shall have ISO 21501-4 compliant with a built-in Pulse Height Analyzer (PHA)
- Shall have large IR touchscreen for simplified use
- shall have a quiet pump to improve work environment
- Shall Calculate and create reports for ISO 14644-1, EC GMP Annex 1, and FS 209E
- Shall have 21 CFR Part 11 compliant download
- shall have Comprehensive validation manual makes it easy to meet regulatory requirements
- shall Operate in cleanrooms via a web browser: Set up, sample, display, print, download data
- shall have language Option
- shall have removable batteries with optional external charger for continuous mobile use
- shall store sampling recipes to reduce operator errors
- shall have long-term data archiving with DataAnalyst software
- shall have local printout for immediate hardcopy results
- shall have USB electronic printouts for long term storage

- shall have CSV file download for easy data integration

Technical Specifications:

Flow rate	1.0CFM (28.3 LPM)
Calibration	Shall meet ISO 21501-4 requirements
Maximum concentration _{an}	> 1,380,270/ft ₃
Counting efficiency	Shall meet ISO 21501-4 requirements.
Zero count	7.07 counts/m ₃ -1CFM
Data storage	3,000 complete data sets. 21 CFR 11 compliance. Long-term data storage/analysis with DataAnalyst.
Communication modes	Ethernet or RS-232; USB data downloading; optional wireless Ethernet
Controlling software	Facility Net, Microsoft® Internet Explorer® 5.0+, Firefox®
Remote operation	Remote web browser operation; real-time download to Facility M
Reports	USB reports; sample printouts; cleanroom certification reports ISO, EC GMP, and FS 209E; averaging
Environmental sensors	Four 4-20 mA inputs
Languages	English
Display	8.4" color VGA display (640 x 480); IR touch screen (IP65 rated)
External surface	Polycarbonate (PC)
Sample tubing ID _b	3/8", 8 m max. length
Sample output filtering	Internally filtered to > 99.97% at 0.3 µm
Power and battery _c	100 - 264 V, 50 - 60 Hz, 150 W Lithium battery: estimated operation 3 hr (single) 6 hr (dual) for CFM unit
Temp & RH Sensor	Shall have temperature & RH sensor Probe
Operating environment	Temperature: 0 - 30°C; Humidity: 5 - 95% RH non-condensing

TERMS AND CONDITONS OF CONTRACT

1. DEFINITIONS:

- a) The terms 'Purchaser' shall mean the Director, Indian Institute of Astrophysics, Bangalore - 560 034.
- b) The term 'Supplier' shall mean, the person, firm or company with whom or with which the order for the supply of Items / Equipment is placed.
- c) The terms 'Purchase Order' shall mean the communication signed on behalf of the Purchaser by an officer duly authorized intimating the acceptance on behalf the Purchaser on the terms and conditions mentioned or referred to in the said communications accepting the tender or offer of the supplier for supply of Items/ Equipment.

2. PRICES:

The price may please be indicated on unit basis only.

Duty Exemption:

Please note that we may issue "Customs duty Exemption Certificate", if acceptable under the Govt. of India notification No.51/96 valid till 2016.

3. GUARANTEE AND REPLACEMENT:

The Supplier shall guarantee that the Items/Equipment supplied shall comply fully with the specifications laid down, for material workmanship and performance. The Guarantee should be for a period of one year minimum from the date of supply.

4. PACKING, FORWARDING AND INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by air / Sea to withstand transit hazards ensure safe arrival at the destination. The packing and marking of packing shall be done by and at the expenses of the contractor. The Purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the supplier and the Purchase shall pay only for such Items/Equipment as are actually received in good condition, in accordance with contract.

5. **TEST CERTIFICATE:**

Wherever required Test Certificate should be sent before dispatch of the items.

6. **ACCEPTANCE OF ITEMS / EQUIPMENT:**

a)It is expressly agreed that the acceptance of Items/Equipment, is subject to final approval by the Purchase, whose decision shall be final.

7. **DELIVERY PERIOD:**

Delivery is the essence of the contract. The supplier should adhere to delivery schedule as indicated in the Purchase order.

8. **EXTENSION OF DELIVERY TIME:**

As soon as it is apparent that Supplier dates cannot be adhered to, an application shall be sent by the Supplier to the Purchaser. If failure, on the part of the Supplier to deliver the Items/Equipment 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 the circumstances of the case). In case of Letter of Credit the banking charge for the LOC amendment will be on suppliers account.

9. **PAYMENT:**

Preference will be given to the supplier whose payment terms is on Site Draft.

10. **SECURITY FOR PAYMENT:**

Successful Supplier will have to furnish in the form of a Bank Guarantee or any other form as called for by the Purchase towards any payments before supply of items/equipment. In case of payment through Letter of Credit the Banking charges outside India and inside India will be on suppliers account.

11. IIA reserves the right to reject any or all the Tenders without assigning any reason.

Purchase Officer
IIA, Bangalore-34.