

**DEPARTMENT OF BIOPHYSICS
PANJAB UNIVERSITY, CHANDIGARH**

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**TENDER DOCUMENT FOR THE PURCHASE OF
ATOMIC ABSORPTION SPECTROMETER**

Last Date for Receipt of Tender: **Sept. 30 2014, 02:00 PM**

DATE & TIME OF OPENING: **Sept. 30 2014, 03:00 PM**

PRICE Rs. 500/-

SECTION – I

PROCEDURE FOR SUBMISSION OF BIDS

1. There will be **Two bid system** for this Tender: *Techno-Commercial bid* and *Financial bid*
2. The Techno-Commercial Bid of the Tender should be covered in one sealed cover superscribing the words “Techno-Commercial Bid”.

Likewise, the Financial Bid should also be covered in a **separate** sealed cover superscribing the words “Financial Bid”.

The two documents viz., Techno-Commercial bid and Financial bid covers prepared as above should be enclosed in a single sealed cover marked as under:

Tender for the supply of **Atomic Absorption Spectrometer**

Due on **30th September, 2014** (last date for submission).

Name & Address of the Tenderer.....

Note: Price should not be indicated in the Techno-Commercial bid otherwise the Tender will be rejected

3. Tenders received after the due date will not be accepted. If the last date for submission of Tender falls on any declared holiday in the University, the next working day will be considered as the last date for the same.
4. The bids prepared by the Tenderer and all correspondence and documents relating to the bids, shall be written in English language
5. The contract for the supply of the items is non-transferable.
6. Tender/Offer should be type written, other wise the same will be rejected
7. Each page of the tender document should be signed by the authorized signatory.
8. Each offer should be complete in all respects.
9. Telegraphic/electronic/conditional offers will not be accepted.

SECTION – II
TERMS AND CONDITIONS

1. **Opening of bids:** Techno-Commercial bids will be opened by the Committee after the closing date and studied. The Tenderers will be invited for presentation and clarifications if needed. Financial bids of the Tenderers complying with the prescribed Techno-commercial specifications will be opened by the Committee. Tenderers or their authorized agents may be present if they so desire during opening of the Tenders.
2. **Rejection of bids:** The Committee reserves the right to reject any or all offers without assigning any reason.
3. **EMD:** The Tender bid should accompany an EMD of **Rs. 50,000**. The EMD should be made by means of an A/c payee **DD in favour of the Chairperson, Department of Biophysics, Panjab University, Chandigarh-160014** payable at Chandigarh. No interest is payable on EMD.
4. **Refund of EMD:** The EMD will be returned to unsuccessful Tenderer only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.
5. **CIF value and comparison of Financial bids:** CIF value **in Indian rupees** upto *Department of Biophysics, Panjab University, Chandigarh (shipment by air upto Delhi and insured up to the installation site)* should be quoted and will be considered for comparison of bids.
6. **Warranty Period:** The quoted instrument should carry a One year warranty & 4 years cmc to be quoted in main system.
7. **PBG:** Tenderer selected for supply of equipment, will have to provide Performance Bank Guarantee (PBG) on any *scheduled bank situated in India, equivalent to 10 percent of the cost of the equipment* which should be valid until the expiry of the Warranty period. The PBG will be provided by the Company along with the letter of acceptance of the order by the Principals.
8. **Terms of Payment:** Payment will be made in Indian rupees only after the installation of the AAS at the installation site. No advance payment will be made.
9. **Delivery period:** Delivery should be made within *120 days* after advance payment of the amount.
10. **Delayed delivery:** If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty as under::
 - i First extension for one month or part thereof @ 2%.

- ii Second extension for an additional month or part thereof @ 3%
11. **Non delivery beyond extended period:** If the Tenderer fails to execute the order within the second extension mentioned above or mutually agreed time frame, the order will be cancelled and EMD forfeited by the Department. He/She will also be liable for all damages imposed by Department of Biophysics for non supply of equipment including the liability to pay the difference between the price accepted by him and those ultimately paid by the Department of Biophysics for the equipment. Such damages will be assessed by the Committee for the purchase of Atomic Absorption Spectrometer.
 12. Increased statutory levies and duties above the rate quoted in the offer will not be an excuse for the Tenderer to delay the supply beyond the date specified in the Tender.
 13. **Validity of rates:** Rates quoted should be valid for at least *6 months* from the closing date of the tenders.
 14. **Consistent pricing:** The rates quoted for the Equipments by the supplier shall in no case exceed the lowest price at which the supplier of this Equipments of identical description made to any other person/organization/Institution during the above said period and should attach an undertaking in this regard.
 15. **Installation requirements:** The Supplier will clearly mention installation requirements on our part in the *Techno-Commercial bid*.
 16. **Installation time:** The Company must install the equipment *within a period of two months* of the date of delivery of the equipment at Department of Biophysics, Chandigarh.
 17. **Free Installation:** The equipment and software should be installed and tested to the specifications *free of cost*.
 18. **Supporting Equipment:** The Tenderer will provide all requisite supporting equipments like air compressor, acetylene gas cylinder & regulator, nitrous oxide gas cylinder with regulator, Argon Gas Cylinder with regulator, fume hood, computer & printer etc.
 19. **Licensed Software and its upgradation:** *Two user licences* for analysis software should be provided. The certified/licensed software and programs should be the part of the supplies. There should be *free upgradation of software upto 5 year*.
 20. **Factory Acceptance Data:** Proposed acceptance criteria for the equipment should be provided by the supplier in order to compare the performance against the quoted specifications. *Manufacturer's test certificate along with test conditions and results* is to be supplied along with the equipment.
 21. Tenderers are advised to study all technical aspects and terms & Conditions, of the Tender documents. Submission of Tender shall be deemed to have been done after

careful study and examination of the Tender Document with understanding of its implications.

22. **Only Manufacturers or Authorized dealers to bid:** The offering firm should clearly mention whether they are the manufacturer or authorized agent/dealer of the manufacturer. In case of agent for overseas manufacturer, a letter of authorization from the manufacturer should be submitted along with the offer. The Tenderer can also enclose the rates on the letterhead of the manufacturer if he has been authorized to do so by the manufacturer.
23. **Descriptive literature:** A set of specifications, description and illustrated literature of the equipment and related peripherals *should accompany the Techno-Commercial bid.*
24. **User and Service Manuals:** A set of User's manuals and Service manuals of the main instrument, attachments and related equipment (water chiller etc.) should be supplied with the equipment
25. **Equipment must be new:** The Tenderer must ensure that the equipment being offered is a new one and not refurbished or repaired one.
26. **Defective Equipment:** If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable or not in an accordance with the description /specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made to him.
27. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges.
28. **Damage during transit:** In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. The Department of Biophysics will not be liable to any type of losses in any form.
29. **Legal jurisdiction:** Any dispute in this regard of any term of the offer and on the supply of equipment is subject to *Chandigarh jurisdiction* only.
30. **Training** Two weeks training should be provided free of charge at the premises of Department of Biophysics out of which one week should be on equipment usage & software and one week in maintenance.

31. **Availability of Spares:** The Tenderer must assure the availability of spares for servicing of equipment *for at least 10 years*. Supplier should give an undertaking that spares parts will be supplied within the specified periods as and when ordered.
32. **Department of Biophysics Infrastructure:** Department of Biophysics will provide required space, *single phase power supply* with required electricity outlets.
33. **Clearance:** The Principals will do all types of clearance work to deliver the equipment at the site of installation. Department will provide all types of documentary support including Customs Duty Clearance. Principals will themselves have to procure any requisite permission from the Govt. of country of origin of equipment.
34. **Agency Commission:** Agency commission, if any, should be clearly mentioned by the Principals in the form of a certificate and will be paid in Indian Currency.
35. **Bank Charges:** Bank charges in India will be borne by the Panjab University and Bank charges abroad will be borne by the suppliers.
36. **Similar Models installed:** The Tenderer must mention in the *Techno-Commercial bid* the similar model of equipment installed in India *during the last five years* and the *addresses of contact persons at these places*.
37. **Application Specialist:** The Tenderer should mention in the *Techno-Commercial bid* the availability and *names of Application Specialist and Service Engineers* in the nearest regional office.
38. **Response Time:** The Tenderer should mention in the *Techno-Commercial bid* the response time for attending to a complaint about the equipment.
39. **Change of Indian Representatives:** The original manufacturer/Principals should give an undertaking that the aforementioned warranty and availability of spares clauses will be valid even in the case of change of their representatives in India.

SPECIFICATIONS OF ATOMIC ABSORPTION SPECTROMETER

Fully PC controlled Atomic Absorption Spectrometer which should have integrated Flame & other accessories to analyze all the mentioned below elements in different samples up to Sub ppb level with software controlled changeover,

- Monochromator : High Precision minimal optics ensure maximum light throughput to the computer controlled Czerny-tuner Monochromator.
- Detector : Photo multiplier tube Detector.
- WaveLength Range : 190-900 nm.
- Wavelength correction by using Hg - Hc lamp.
- Wavelength accuracy +/- 0.15 nm
- Spectral bandwidth : 0.1 nm, 0.2 nm, 0.4 nm, 1.0, 2.0 (Software selectable)
- There should be facility to adjust the burner horizontally and vertically through software.
- Absorb. better 0.9 Abs for 5ppm Copper.
- System should have eight lamp holder with automatic Turret controlled with software with auto alignment.
- Hollow cathode Lamps Single Element ----- (Cu, Fe, Al, Mg, Mn, Zn, Ca, Na, K, Pb, As, Se, Hg, Cd, P, Li) & also quote the standard solution for all lamps.
- Automated vapour generation accessory.
- Air Acetylene Burner Head (100 mm) and N₂O burner head (50 mm) separately quoted in main system.
- All the method parameters related with lamp selection, calibration, control of flow gases should be thru' windows based software.
- The instrument should have programmable and computer controlled gas controls both for Air Acetylene, Nitrous Oxide .
- The system should have all safety features required for the system.

- ☛ The AAS unit will be operated with windows Software for controlling analyzer, setting-up the method parameters, analyzing the samples, performing calibrations, etc.
- ☛ D2 lamp & self reversal background correction system fitted as standard.

AUTOSAMPLER

- Integrated Auto sampler to be quoted in main system for ml & micro liter sample volume.

HYDRIDE GERNATOR

Software Controled hydride *gernator* to be quote in main system for heavy elements.

Accessories

1. Acetylene Regulator
2. Nitrous Oxide Regulator Heated
3. Nitrous Oxide Burner Head
4. Acetylene Gas with Cylinder
5. Nitrous Gas with Cylinder
6. Argon Gas Cylinder with regulator
7. Air Compressor
8. Vent and Hood Assembly with 10ft. ducting.
9. PC and Printer
10. Suitable Online UPS to be quoted in main system.
11. Air conditioner of 1.5 Ton & Refegriator more then 300 ltr capacity.
12. Training at the customer application lab for 5 days
13. One year warranty & 4 years cmc to be quoted in main system.

The Dean Research
Panjab University
Chandigarh

Subject: Sanction for the advertisement for the purchase of equipment under DST-FIST grant.

Through: O.S. (G&P)

Sir,

Biophysics department has been sanctioned a Atomic Absorption Spectrophotometer AAS from the **DST** Govt.of India under DST-FIST program.

The Dean Research is requested to kindly accord necessary sanction for advertisement for the above equipment in “THE TRIBUNE” and “HINDHU” covering North India, of 4 cm x 8 cm size (Total 32 square cm). Tentative contents of the advertisement are enclosed. Comparative statement of different news papers obtained from M/S Ace Advertisement & Marketing, Sect. 15 Chandigarh, is enclosed for your perusal.

Expenditure on this account will be debited to the budget head “DST-FIST” grant of the Biophysics Department.

Thanking You.

Yours Sincerely

(D.K. Dhawan)
Chairperson

PANJAB UNIVERSITY CHANDIGARH

Tender Notice

Sealed tender are invited from manufacturer/authorized dealers for the supply of Atomic Absorption Spectrophotometer (AAS) for the Biophysics Department, Panjab University, Chandigarh:

Detailed specifications of the AAS and other terms and conditions are available on our website <http://tenders.puchd.ac.in>. Last date for the receipt of tender documents along with demand draft of Rs. 500/- and earnest money in favour of Chairperson Biophysics department is 27th August, 2010, at 3:00 p.m.

Chairperson
Biophysics Department

DEPARTMENT OF BIOPHYSICS
PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)
(Estt. Under the Panjab university Act VII of 1947 enacted by the Govt. of India)

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Minutes

A meeting of the Technical/purchase committee to finalize the technical specifications of the AAS sanctioned by the DST under the DST-FIST program was held at 12:00 Hrs. on 6th August, 2014 in the committee room of the Biophysics department.

Committee members unanimously approved the technical specifications of the AAS, as enclosed.

Members of the Technical/Purchase committee:

1. Prof. D.K. Dhawan, Chairperson, and Secretary Technical committee
2. Prof. M.L. Garg,
3. Prof. Ashwani Koul
4. Ms. Sarvnrinder Kaur
5. Dr. Pavitra Ranawat/on leave
6. Dr. Simranpreet kaur