

CENTRAL STORE PURCHASE SECTION
N.D.University of Agriculture & Technology, Kumarganj, Faizabad
Global Tender Notice No. 4/2014-15

Sealed tenders from reputed manufacturers or their distributors/agents/dealers are invited for purchase of Gas Chromatography Mass Spectrophotometer, Atomic Absorption Spectrophotometer, Serum Auto analyzer and Air conditioner. The tender document can be obtained on cash payment of Rs.1000/- for each item. Last date for sale of tender is 02.03.2015. Tender notice and specifications are available on www.nduat.in.


Chairman
CPC

General Terms and Condition of short term Global Tender Notice No. 4/2014-15

Cost of tender Rs.1000/-

1. The tenderer is required to deposit the earnest money of Rs.20,000/- (Twenty Thousand Only). EMD should be in form of FDR/Draft in favour of comptroller, NDUAT, Kumarganj, Faizabad. In case tender is submitted on proforma downloaded from website tender cost Rs.1000/- must be deposited separately.
2. Manufacturers/Authorised distributors of manufacturers are only needed to quote the rates for these items.
3. The last date for sale of tender is 02.03.2015 and the last date for accepting the tender is 09.03.15 and will be opened on next day or as decided by chairman C.P.C. in his office. The interested tenderer or his authorised representative may be present in this.
4. The tenderer must enclose income tax and CST/VAT registration. Company must enclose proof of after sale service in India.
5. The tender must be submitted to Dy.S.P.O., NDUAT, Kumarganj, Faizabad through Regd./Speed post only. University will not have any responsibility for postal delay of the tender.
6. The delivery of items as per tender specifications/make approved shall only be accepted at University Kumarganj and on bill basis only.
7. Validity of tender should be at least 6 months; Part delivery of supply is not accepted for payment.
8. The tender must be submitted in form of technical bid and financial bid in two separate sealed envelopes and both of them should be placed in a third envelop superscripted "Tender for Serum Autoanalyzer". Tender without earnest money shall not be entertained.
9. Tender notice No and item name should be mentioned on each envelope.
10. Security money @10% of basic cost (after adjusting earnest money) of supply will be deposited by the firms concerned after acceptance of his tender.
11. Security/earnest Money will be forfeited if the firm does not supply the items within time or as per required specification. Security/earnest money previously deposited cannot be adjusted.
12. In token of acceptance of above terms and conditions, kindly return this sheet duly signed and sealed in the technical bid.
13. The term and conditions given by the supplier will not be binding for us.
14. Quality assurance certificate will be required from tenderer with technical bid.
15. Custom/Excise duty and other taxes or any charges applicable at the time of supply will be borne by the supplier.
16. Only those firms will be considered eligible who have good record of supply and maintenance to various national institutions e.g. AIIMS, SGPGI, CSIR labs, ICMR labs, ICAR institutions and Central Universities.
17. The university reserves the right to reject one or all tender and also reserves the right to place the order for all in full quantity or part there of or not at all.
18. In case of any dispute the verdict/decision of the Hon'ble Vice Chancellor of the university shall be final and binding upon both the parties. All legal disputes shall be subject to Faizabad, Uttar Pradesh, India Jurisdiction only.

I have read all terms and conditions of the tender as given above very carefully shall abide by the same.


Signature of
Chairman CPC

Signature of tenderer

Annexure –III

Specifications for Auto analyzer

- Compact, Bench Top, Fully automated, Randomly analyze all serum enzymes.
- Up to 150 tests/hour .
- Continuous sample loading.
- Re-usable reaction cuvettes.
- On board inventory management.
- Online quality control programme.
- Auto re-run/Automatic dilution for hyper active samples/ pre & post dilution for abnormal samples.
- On screen indication for progress of each test. User friendly operation with windows operating system.
- Possibility to program multiple reagent tray in advance.
- Effective cooling(refrigeration)
- Free arm for reagent & sample transfer
- On board laundry (Programmable mixing & probe washing. Effective & Programmable washing of needle and cuvettes. (Atleast 8-10 times immediately after the end of reaction)).
- At the end of washing cycly, software performs Q.C.,check for ach cuvette.
- Check cuvette blank before performing test.
- Automatically identify dirt/ defective cuvette.,
- Liquid level sensor.
- Photo-amplifier response range-340-940 nm
- Options for monochromatic or bi chromatic measurement.
- Halogen lamp with extended UV emission.
- filter protection from humidity.
- Installation charges should be included & extended warranty.

General Terms and Condition of short term Global Tender Notice No. 4/2014-15

Cost of tender Rs.1000/-

1. The tenderer is required to deposit the earnest money of Rs.70,000/- (Seventy Thousand Only). EMD should be in form of FDR/Draft in favour of comptroller, NDUAT, Kumarganj, Faizabad. In case tender is submitted on proforma downloaded from website tender cost Rs.1000/- must be deposited separately.
2. Manufacturers/Authorised distributors of manufacturers are only needed to quote the rates for these items.
3. The last date for sale of tender is 02.03.2015 and the last date for accepting the tender is 09.03.15 and will be opened on next day or as decided by chairman C.P.C. in his office. The interested tenderer or his authorised representative may be present in this.
4. The tenderer must enclose income tax and CST/VAT registration. Company must enclose proof of after sale service in India.
5. The tender must be submitted to Dy.S.P.O., NDUAT, Kumarganj, Faizabad through Regd./Speed post only. University will not have any responsibility for postal delay of the tender.
6. The delivery of items as per tender specifications/make approved shall only be accepted at University Kumarganj and on bill basis only.
7. Validity of tender should be at least 6 months: Part delivery of supply is not accepted for payment.
8. The tender must be submitted in form of technical bid and financial bid in two separate sealed envelopes and both of them should be placed in a third envelop superscripted "Tender for AAS". Tender without earnest money shall not be entertained.
9. Tender notice No. and item name should be mentioned on each envelope.
10. Security money @10% of basic cost (after adjusting earnest money) of supply will be deposited by the firms concerned after acceptance of his tender.
11. Security/earnest Money will be fortified if the firm does not supply the items within time or as per required specification. Security/earnest money previously deposited cannot be adjusted.
12. In token of acceptance of above terms and conditions, kindly return this sheet duly signed and sealed in the technical bid.
13. The term and conditions given by the supplier will not be binding for us.
14. Quality assurance certificate will be required from tenderer with technical bid.
15. Custom/Excise duty and other taxes or any charges applicable at the time of supply will be borne by the supplier.
16. Only those firms will be considered eligible who have good record of supply and maintenance to various national institutions e.g. AIIMS, SGPGI, CSIR labs, ICMR labs, ICAR institutions and Central Universities.
17. The university reserves the right to reject one or all tender and also reserves the right to place the order for all in full quantity or part there of or not at all.
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Signature of
Chairman CPC

Signature of tenderer

Annexure-II

Atomic Absorption Spectrophotometer:

True Double beam spectrophotometer for multi-element measurements. To be fitted with high speed deuterium background correction with automated monochromator and slits. The ability to air purge the complete interior of the instrument is mandatory. The system should be capable of analyzing multiple elements in a sample in a single run to reduce running cost and time.

Hardware:

- **Optics:** Narrow beam optics is preferable. Should be fully sealed and mirrors need to be quartz over-coated.
- **Wavelength range:** 190-900 nm or better in both lower and higher wavelength.
- **Monochromator:** Czerny-Turner or equivalent monochromator with computer controlled wavelength selection and peaking.
- **Slits:** Automated slit selection. Settings: 0.2 to 1.0 nm plus one reduced height slit.
- **Grating :** Holographic diffraction grating with line density of 1100 lines/mm or more.
- **Detector:** Photomultiplier/ Solid state detector.
- **Background correction:** High intensity deuterium background corrector.
- **Lamp System :** 4-6 lamp positions. Automatic operation. Lamps should automatically switch off at the end of analysis. It should have fixed lamp motorized turret with fast automatic lamp selection capability by mirror.
- **Burner:** Separate burner Air/C₂H₂(10mm) and N₂O/C₂H₂ (5mm). Suitable safety feature should be available so that ignition should not happen if the burner is not fitted properly. Teflon corrosion shield should be there to avoid corrosion. Should provide external burner rotation considering safety.
- **Gas control:** Fully Programmable gas control system with automatic setting of gas flows. Automatic oxidant changeover. Should have fast response solenoid valve for rapid regulation and setting of selected gas flow.
- **Safety system:** There should be adequate safety measurement such as separate ignite/flame-off buttons, internal gas connections made automatically, flame shields and protection against heat and UV radiation. External adjustment of all burner and spray chamber controls. Violation of any safety interlock should prevent flame ignition or should extinguish existing flame.
- **Spray chamber:** should be fluorinated high-density polyethylene for aqueous and organic solutions.
- **Nebulizer:** Adjustable nebulizer with inert platinum/iridium capillary and PEEK venturi for corrosion resistance.
- **Typical performance :** >0.8 absorbance with precision of <0.5% RSD from 5 sec. integrations for 5 mg/L Cu solution

Software:

Windows XP based 'worksheet' layout running on external PC with mouse or keyboard control.

- **Measurement modes:** Absorption or flame emission using special feature for analysis with 20 replicates with read time from 0.1-30 secs. Should have different number of replicates selection capability for samples and standards.

- On-line cookbook: Analytical methods 'cookbook' information should display for each method in the Method window. Should include typical calibration graph and list of alternative wavelengths with comparative sensitivities and any other analytical recommendations.

Vapor Generation Accessory:

It should be modular-automatic and s/w controlled continuous flow Vapor Generation Accessory for determination of Hg, As, Se, etc at $\mu\text{g/L}$ concentrations. Typical precision should be $<2\%$ RSD with sample throughput of >50 samples/hour determined in triplicate. There should be Spare hydride modules available.

Hollow cathode lamps:

Coded single and multi hollow cathode lamps for analysis of various elements. Pb, Cu, Hg, As, Se, Zn, Fe, Mn, Al, Ni, Cd, Na, K, Mg, Cr, Ca, P, Sc, Thallium, Molybdenum. The lamps should have guaranteed 5000 mA hour of usage time.

Graphite Furnace System :

Should be fully automated graphite furnace system with Dynamic Temperature Control with cooling water temperature compensation. Should have up to 20 temperature steps per program, temperature programmable from $40-2800\text{ }^{\circ}\text{C}$ with maximum heating rate $2000\text{ }^{\circ}\text{C/sec}$. There should be choice of two inert gases with 0 to 3.1 L/min gas flow programmable in 0.1 L/min increments. The furnace work head must be of solid titanium for maximum corrosion resistance. Quartz end windows for high light transmission. Graphite tube must be enclosed in an inert gas atmosphere by a one piece graphite shroud for maximum tube life. There should be at least five safety interlocks monitor inert gas pressure, cooling water flow and temperature, graphite tube and transformer temperature.

Auto sampler:

1. For graphite furnace: There should be capacity for 50 samples in 2 mL vials with five central 25 mL vessels for bulk solutions. Should automatically prepare up to a 10 point concentration or standard additions calibration from one bulk standard. Premix mode should be provided for use with manually prepared standards. There should be automatic addition of up to two chemical modifiers with pre and/or co-injection of modifiers and automatic over range volume reduction.

2. Auto-sampler for flame should also be quoted with minimum 100 sample vial and necessary other features.

Computer & Printer :

PC , Printer to be supplied along with the recent processing .


System should be quoted with necessary gas cylinders (C_2H_2 , N_2/Ar .) SS two stage regulators, exhaust hood, air compressor, chiller , UPS of suitable capacity etc. All the tubing's 2-3 extra pair, fittings & accessories should be offered along with the system. Installation charges, training of two persons and extended warranty should be included .

General Terms and Condition of short term Global Tender Notice No. 4/2014-15

Cost of tender Rs.1000/-

1. The tenderer is required to deposit the earnest money of Rs.80,000/- (Eighty Thousand Only). EMD should be in form of FDR/Draft in favour of comptroller, NDUAT, Kumarganj, Faizabad. In case tender is submitted on proforma downloaded from website tender cost Rs.1000/- must be deposited separately.
2. Manufacturers/Authorised distributors of manufacturers are only needed to quote the rates for these items.
3. The last date for sale of tender is 02.03.2015 and the last date for accepting the tender is 09.03.15 and will be opened on next day or as decided by chairman C.P.C. in his office. The interested tenderer or his authorised representative may be present in this.
4. The tenderer must enclose income tax and CST/VAT registration. Company must enclose proof of after sale service in India.
5. The tender must be submitted to Dy.S.P.O., NDUAT, Kumarganj, Faizabad through Regd./Speed post only. University will not have any responsibility for postal delay of the tender.
6. The delivery of items as per tender specifications/make approved shall only be accepted at University Kumarganj and on bill basis only.
7. Validity of tender should be at least 6 months; Part delivery of supply is not accepted for payment.
8. The tender must be submitted in form of technical bid and financial bid in two separate sealed envelopes and both of them should be placed in a third envelop superscripted "Tender for GC-MS". Tender without earnest money shall not be entertained.
9. Tender notice No. and item name should be mentioned on each envelope.
10. Security money @10% of basic cost (after adjusting earnest money) of supply will be deposited by the firms concerned after acceptance of his tender.
11. Security/earnest Money will be forfeited if the firm does not supply the items within time or as per required specification. Security/earnest money previously deposited cannot be adjusted.
12. In token of acceptance of above terms and conditions, kindly return this sheet duly signed and sealed in the technical bid.
13. The term and conditions given by the supplier will not be binding for us.
14. Quality assurance certificate will be required from tenderer with technical bid.
15. Custom/Excise duty and other taxes or any charges applicable at the time of supply will be borne by the supplier.
16. Only those firms will be considered eligible who have good record of supply and maintenance to various national institutions e.g. AIIMS, SGPGI, CSIR labs, ICMR labs, ICAR institutions and Central Universities.
17. The university reserves the right to reject one or all tender and also reserves the right to place the order for all in full quantity or part there of or not at all.
18. In case of any dispute the verdict/decision of the Hon'ble Vice Chancellor of the university shall be final and binding upon both the parties. All legal disputes shall be subject to Faizabad, Uttar Pradesh, India Jurisdiction only.

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Chairman CPC

Signature of tenderer

Annexure-I

GCMS Specifications

- Gas chromatograph requires short heating & cooling time & pressure set point of 0.001 psi with capability of having two injector ports & three detector ports
- Oven Temperature: Ambient +4°C to 450°C.
- Temperature programme ramps: 20 ramps.
- Cooling rate <5 minute for GC oven temp. of 400-500°C.
- One Split/split less inlet having maximum pressure set point up to 100psi with a two way electronic splitter.
- Auto sampler: Having capacity of 14 vials or more with area reproducibility of 0.3% RSD or less.
- FID Detector: EPC/EF/PPC controlled ; MDL: < 1.7 pg c/s or better; Data acquisition rate: up to 400 Hz or better
- TCD Detector: Dynamic range: 10⁵ or better, Temp. Range: Up to 400°C or more. All gases flow should be adjustable/controlled by software with no manual control.
- NPD Detector: MDL: < 80 fg N/s and 10fg P/s with azobenzene/malathion/Octadecane mixture; Dynamic range: > 10³ for N; 10⁵ for P.
- Head Space Sampler with minimum 10 vials capacity with pneumatic control. It should be transfer line based with loop system for precise quantification and it should be from same manufacturer. Transfer Line to the GC temperature range: 50 to 200 Degrees.

MS Specification-

- System compact with programmable electronic control for injectors and detectors.
- Low maintenance quadrupole based mass spectrometer with EI source. System should have high ion transmission efficiency.
- Electronic scan rate up to 12500u/s.
- EI scan sensitivity and is a must parameter to demonstrate at least: 600:1 S/N for 1 pg OFN scanning from 50-300 amu at nominal m/z 272 ion
- Pumping system 250 L/S Turbo molecular pump.
- 2.5m³/h mechanical pump.
- Data system – SIM/scan automated SIM set up & high performance with synchronous SIM/scan operation with latest NIST library and separate spectral libraries for pesticide residues, fatty acids, drugs, toxic compounds.
- Pre loaded GC/MSD software for identify unknowns with quick method set up & library search.
- Should offer Auto tuning in all ionization modes & should remain tuned for longer time.

All other accessories like gas Purification panel, Gas Cylinders with regulators and PC, Printer to be supplied along with the system, PC from the manufacturer pre loaded with the chromatography software is preferred. Installation charges & UPS of suitable capacity etc. Extended warranty up to 2 years should be included.

General Terms and Condition of short term Global Tender Notice No. 4/2014-15

Cost of tender Rs.1000/-

1. The tenderer is required to deposit the earnest money of Rs.3,000/- (Three Thousand Only). EMD should be in form of FDR/Draft in favour of comptroller, NDUAT, Kumarganj, Faizabad. In case tender is submitted on proforma downloaded from website tender cost Rs.1000/- must be deposited separately.
2. Manufacturers/Authorised distributors of manufacturers are only needed to quote the rates for these items.
3. The last date for sale of tender is 02.03.2015 and the last date for accepting the tender is 09.03.15 and will be opened on next day or as decided by chairman C.P.C. in his office. The interested tenderer or his authorised representative may be present in this.
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6. The delivery of items as per tender specifications/make approved shall only be accepted at University Kumarganj and on bill basis only.
7. Validity of tender should be at least 6 months; Part delivery of supply is not accepted for payment.
8. The tender must be submitted in form of technical bid and financial bid in two separate sealed envelopes and both of them should be placed in a third envelop superscripted "Tender for Air conditioner". Tender without earnest money shall not be entertained.
9. Tender notice No. and item name should be mentioned on each envelope.
10. Security money @10% of basic cost (after adjusting earnest money) of supply will be deposited by the firms concerned after acceptance of his tender.
11. Security/earnest Money will be forfeited if the firm does not supply the items within time or as per required specification. Security/earnest money previously deposited cannot be adjusted.
12. In token of acceptance of above terms and conditions, kindly return this sheet duly signed and sealed in the technical bid.
13. The term and conditions given by the supplier will not be binding for us.
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15. Custom/Excise duty and other taxes or any charges applicable at the time of supply will be borne by the supplier.
16. Only those firms will be considered eligible who have good record of supply and maintenance to various national institutions e.g. AIIMS, SGPGI, CSIR labs, ICMR labs, ICAR institutions and Central Universities.
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18. In case of any dispute the verdict/decision of the Hon'ble Vice Chancellor of the university shall be final and binding upon both the parties. All legal disputes shall be subject to Faizabad, Uttar Pradesh, India Jurisdiction only.

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Chairman CPC

Signature of tenderer

Annexure –IV

Air conditioner

- 1.5-2.0 ton window
- Remote control
- Minimum 2 star
- Stabilizer 5 KVA for each AC
- Installation charges should be included & extended warranty.