


Central Store Purchase Section
N.D. University of Agriculture & Technology, Kumarganj, Faizabad
Short Term Global Tender Notice No. 03/2015-16

The university invites sealed tenders from manufacturers / agents authorized by manufacturer for the supply of 1. "Autochem Ingenious Semi-automated Clinical Chemistry Analyser (Outright)", 2. "Multi-parameter Table Top Pulse Oxymeter", 3. "Portable Electrocardiography Machine", 4. "Syringe Infusion Pump", 5. "Milk Somatic Cell Counter/Analyser" and 6. "Digital Radiography Machine with Accessories" for the year 2015-16. The tender documents can be downloaded from the University Website www.nduat.in. The tender will be accepted through regd./ speed post, latest by 18.03.2016 positively. The details of equipment specifications and terms and conditions of the tender are available on above website.


Chairman, CPC/Comptroller
Central Store Purchase Section

General Terms and Conditions of Tender Notice No. 3/2015-16

1. The cost of tender is Rs. 1000 and 5% VAT in separate DD for each item, in favour of "Comptroller, NDUAT, Kumarganj, Faizabad".
2. The tenderer is required to deposit the earnest money of 2% of equipment bid value with the tender and 8% of bid value in the form of FDR/DD as security money before receipt of supply order by beneficiary firm. EMD should be in form of FDR/DD only in favour of comptroller, NDUAT, Kumarganj, Faizabad.
3. Manufacturers/Authorized agents of manufacturer are only needed to quote the rates for these items.
4. The firm must enclose income tax and CST/ VAT registration if applicable. Company must enclose Certificate for "After Sale Service" in India, Client list and copy of ISO certification/ ISI registration/ International quality assurance certification with Technical bid.
5. The Cost of equipment in tender must be quoted in INR.
6. The tender must be submitted to Chairman, Store Purchase Section of NDUAT, Kumarganj, Faizabad through Regd./ Speed Post only on or before 18.03.2016. University will not have any responsibility for postal delay of the tender.
7. The tenders will be opened on the next day or as decided by Chairman C.P.C. in his office. The interested tenderer or his authorized representative may be present in this.
8. The delivery of items as per tender specification / make approved shall only be accepted at University Kumarganj, Faizabad and on bill basis only.
9. Validity of date of tender should be 31.03.2016. Part delivery of supply is not accepted for payment.
10. 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.
11. 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 Jurisdiction only.
12. The tender must be submitted in form of Technical bid and Financial bid in sealed separate envelops and both of the envelops should be kept in third envelop.
13. Tender notice No. and Items name should be mentioned on each envelops indicating financial bid and technical bids separately.
14. Earnest money will be forfeited if the firm does not supply the items with in stipulated time or as per required specification. Previous deposited earnest money cannot be adjusted.
15. In token of acceptance of above terms and conditions, kindly return this sheet duly signed and sealed.
16. The terms and condition given by the supplier will not be binding on the university.
17. Quality assurance certificate will be required from tenderer with technical bid.
18. Custom/ Excise duty/ taxes and any other charges applicable at the time of supply will be borne by the supplier.
19. Company must present technical and quality specification in power point before committee and committee may proceed for negotiation in financial and technical difference of equipment is less than 10%.
20. Payment will be done after installation and technical demonstration of the machine.
21. I have read all terms and conditions of the tender as given above very carefully and shall abide by the same.


Signature of Comptroller/
Chairman CPC.

Signature of tenderer

TECHNICAL SPECIFICATION OF THE INSTRUMENTS

I. **Digital Radiography Machine** including Image Reader, Image console with LCD monitor, Imager or digitizer, Imaging plates (of 10" x 12" and 14" x 17" sizes), IP cassettes (of 10" x 12" and 14" x 17" sizes), Veterinary Software, Laser Printer and Camera and UPS of 3 KVA.

➤ **Technical Specification**

I	Image reader system
	<ul style="list-style-type: none"> • The system should be compatible for general radiography.
...	<ul style="list-style-type: none"> • The system should have the capability to process at least 47 plates per hour of size 14x17 inches at 10 pixel/mm
	<ul style="list-style-type: none"> • The initial film preview time should be less than 40 seconds for cassette size of 14x17
	<ul style="list-style-type: none"> • Should have the following sizes of image plates and compatible cassettes. The rates for cassette and plates have to be offered separately and orders will be issued as per requirement. <ul style="list-style-type: none"> a) 35 cm x 43 cm or (14"x17") : 2nos b) 24 cm x 30 cm or (10"x12") : 2nos
	<ul style="list-style-type: none"> • Should have at least 17" LCD/TFT display to view images of resolution
	<ul style="list-style-type: none"> • Should be possible to take print outs directly. Mechanism for printing Multiple Images in one film, with the possibility of slide and true size printing
	<ul style="list-style-type: none"> • Should have a protocol for verifying the connectivity status of configured image destinations.
	<ul style="list-style-type: none"> • Should have Customizable Graphic User Interface
	<ul style="list-style-type: none"> • Should be capable to store more than 5000 images
	<ul style="list-style-type: none"> • Indication of Over Exposure on the preview module.
	<ul style="list-style-type: none"> • Capability of interfacing to HL7, Non-HL7, Proprietary, DICM Work list or-user defined, Windows/DOS /Linux based interface protocols to HIS/RIS.
	<ul style="list-style-type: none"> • Customizable Graphic User Interface (GUI} in Identification station with facility of selecting DICOM print & Storage destination
	<ul style="list-style-type: none"> • Mechanism for User release from Preview terminal in case of Auto-routing Images to Pre-defined DICOM Destinations.
	<ul style="list-style-type: none"> • Solution for storing patient demographic data for multiple exams in RIS/non RIS environment.
	<ul style="list-style-type: none"> • It should be possible to put a custom configurable data field in the demographic information of the patient linked with the image.
	<ul style="list-style-type: none"> • CD and DVD Burner
	<ul style="list-style-type: none"> • Various image-processing protocols should be available for the respective regions of the body.
	<ul style="list-style-type: none"> • Built in routine for using predefined image processing parameters for image quality enhancement.
	<ul style="list-style-type: none"> • Mechanism for storing the Patient image based on name, date, exam, etc.
	<ul style="list-style-type: none"> • Capability of storing user defined image processing parameters.
	<ul style="list-style-type: none"> • Capability of overwriting predefined image parameter with user-defined parameters & storing these two images separately.
	<ul style="list-style-type: none"> • Manual correction typographically in Patient Demographic module, in case of any problem with RIS connection.
	<ul style="list-style-type: none"> • Capability of changing W/L, Flipping, Rotating, Zooming, Collimating Annotating incoming image
II	Single Console Unit with 17" LCD monitor
III	DRY Laser Printer and Camera
a	Should be a dry laser camera with a resolution of 500 dpi or more.
b	Should have a gray scale resolution of at least 14 bits
c	Capable of Printing Images in DICOM format

S.V. Singh
(S.V. Singh)

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[Signature]

[Signature]
(S. V. Singh)

d	The system should be capable to print on any of the 8" X 10" , 10"X 12", 11"X 14"14" X 17" sizes on at least two trays online
IV	3 KVA UPS
V	OTHER
	Should supply an On-Line Uninterrupted power supply of suitable capacity with minimum 30 min battery backup for the workstation.
	The imager should support daylight loading of films.
	• System should be offered with one year warranty including the CR system, IP plates, UPS(its batteries) and accessories supplied
	• Vendors should also submit rates for compatible plates of various size for yrs.
	Service to be provided within 24hrs, if required. Machine should be in working condition 95% days of the year.
	Warranty of the machine should be for 2 years followed by 5 years CMC with all spares. The price of the CMC shall be quoted at the time of tendering process. The price of CMC shall be considered for the evaluation.
	• Imaging reader system and imager system should be from the same manufacturer.
	• The successful bidder will have to ensure onsite training of end users.

2. Multiparameter Table top Pulse Oximeter

Technical Specification: Multi-parameter (ECG, NBP, Temperature, Respiration, SpO2), table top pulse oximeter with 3 hour battery backup, 7" TFT LCD Screen and 800x400 resolution.

3. Portable Electrocardiography Machine


Technical Specification: Digital, Portable, Real time print paper width 80 mm, 12 standard leads ECG signals simultaneously acquisition capacity, input way: floating and defibrillation protection, patient leak current: < 10µA, input impedance: >50MQ, Frequency response: 0.05 Hz-150Hz, >3.2 time constant>110dB CMRR (with Ac filter) and a noise level >15 µVp-p

4. Syringe Infusion Pump

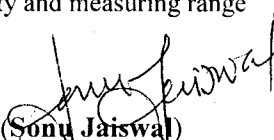
Technical Specification: Capable of infusion of liquid injectable fluids intravenously at various pre-decided flow rate with considering body weight

5. Milk Somatic Cell Counter/ analyzer

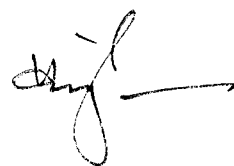
Technical Specification: High-end fluorescent microscope with autofocus and cell counting software with less than 1 min analysis time, more than 60 test/ min capacity and measuring range 10,000- 10,000,000 cells/ml


(Satyavrat Singh)
Asstt Prof.

Vety Medicine, TVCC, C. V. Sc. & A. H.,


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TECHNICAL SPECIFICATION OF THE INSTRUMENTS

Semi-Automated Clinical Chemistry Analyser (Outright)

Features: Function key driven user friendly operation. Direct access keys to run test, Large graphical display, In built peltier regulated incubation compartment. Real time curve plotting and facility to modify kinetic read time to select most linear portion in hyperactive samples. Daily and monthly Levey-Jennings quality control program for 2 level of controls. Minimum aspiration volume 200 μ L. Facility to store 144 tests. Lamp saver & self diagnosis facility. Long life high precision peristaltic pump based aspiration system. Profile wise operation. Facility to prepare patient work list. Connectivity to external keyboard and printer.

Optical System / Photometer

Optical design : Single beam with rotating filter wheel
Measurement mode : Monochromatic & Bichromatic
Light Source : Tungsten halogen lamp, 12 Volt, 20 Watts
Measurement range : -0.05 – 2.5 Absorbance
Standard wavelengths : 340,405,510,546,578,630 nm + 2 optional
Filter type : 4-Cavity interference, long life ion beam assisted deposition
Wavelength accuracy : ± 5 nm
Sample Holder : 18 μ L flow cell, 10mm square/semi-micro cuvette, Coagulation cuvette.

Data Processing


Calculation Modes : Absorbance
: End point (with and without sample blank)
: Fixed time (with and without Reagent blanking)
: Kinetic (with and without Reagent blanking)
: 1-Point with Sample blank
: Coagulation
Calibration : Factor mode
: Single-standard mode
: Multi-standard mode (up to 6 standards) (spline)
: Multi-standard mode (up to 6 standards) (point to point)
Data storage capacity: 144 test parameters
: 24 profiles
: 2000 (latest) samples, 200 calibrators/standards, 576 daily controls
: 10 (latest) graphs
Result retrieval : Patient ID wise, Test wise, Date wise

Temperature control

Cuvette temperature : Peltier bases
Operating temperature : 30 & 37^o C ($\pm 0.2^o$ C)
Incubation block : Capacity to load 16 cuvettes with 12 mm diameter at 37^o C ($\pm 0.2^o$ C)

Fluidic system

Flow cell volume : 18 μ L
Aspiration volume : 200 μ L – 2000 μ L
Aspiration : Stepper driven peristaltic pump


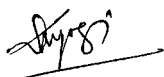
 (Dr. D. Niyogi)

Data management

Display type : 240 x 128 resolution graphical LCD with backlight
Data input : In-built 28 keys membrane keypad
: Facility to connect to external standard computer keyboard
Data output : Real time curve plotting of absorbance Vs. time
: Internal thermal printer (speed up to 0.5 lines/second)
: Facility to connect to external 80 columns dot matrix printer
: Serial port for computer connectivity

Power / Dimensions

Power : 90 – 260 VAC, 50-60 Hz.
: 100 Watts maximum power consumption
Operating temperature : 20 – 40^o C
Relative humidity : 10 to 85%, Non Condensing
Dimension : 35cm x 34cm x 26cm (W x D x H)
Weight : < 10kg

 
(Dr. D. Nijoz)