

छत्रपति शाहू जी महाराज विश्वविद्यालय, कानपुर  
CHHATRAPATI SHAHUJI MAHARAJ UNIVERSITY, KANPUR

कल्यानपुर, कानपुर  
KALYANPUR, KANPUR

Ref. No. CSJM U/AR (PP)/1731/2012



Dated : 21.8.12

**SHORT TERM TENDER NOTICE**

Sealed tenders are invited from the manufacturers/ authorized dealer / distributors for the purchase of various equipments. The prescribed tender documents with terms & conditions may be downloaded from the University website ([www.kanpuruniversity.org](http://www.kanpuruniversity.org)). Filled in tender documents accompanied with a D.D. of Rs. 250/- in favor of Finance Officer, CSJM University, Kanpur payable at Kanpur, must reach the Registrar, CSJM University, Kanpur, latest by 2:00 pm on 30.08.2012. Tenders will be opened at 3:00 pm on the same date.

  
Registrar

**C.S.J.M. UNIVERSITY, KANPUR**  
**TENDER DOCUMENT**

Cost of tender- Rs. 250/-  
Last Date of Submission:  
Opening of Tender:

Tender no.: CSJMU/

**TERMS AND CONDITIONS**

1. The offers from the manufacturers/authorized dealers/distributors shall only be accepted. The tendering firms must be registered under Trade Tax Act. If applying on behalf of a company as a dealer/distributor the relevant authorization documents should be attached.
2. All the documents enclosed with the tender must be duly signed by the Authorized representative(s) of the firm with his/her name, designation and official seal and same should be submitted along with tender.
3. The following documents must be submitted with the offer(s).
  - a. Trade Tax Registration Certificate.
  - b. Xerox copy of the order's for similar works and their performance certificate must be attached along with tender.
  - c. Authority letter of the manufacturer of dealerships.
  - d. Printed pamphlets of the equipments/machines/apparatus.
  - e. Other relevant documents/technical literature.
4. Offers should be valid for a minimum period of 120 days. The tenderer is required to supply equipments within 21 days from the receipt of the work order.
5. 1% of the earnest money shall be deposited in the form of DD/FDR in favor of Finance Officer, C.S.J.M. University, Kanpur, payable at Kanpur, for the estimated value of items quoted.
6. The tender should be submitted in the format as per prescribed Performa and technical details provided.
7. The University reserves the right to accept or reject any or all the offers and to split up the requirements or relax any or all above conditions without assigning any reason.
8. The quantity of goods may be increased/ decreased according to requirement.
9. The firms should provide at least one year warranty/guaranty and after that one year free maintenance.
10. Clearance of customs or other duties/shipment will be the liability of the supplies.
11. **Technical and financial bid should be submitted separately.**
12. The rates offered should be F.O.R. at concerned department of the goods ordered, CSJM University, Kanpur.

**Technical Bid and Financial Bid:**

1. Technical Bid and Financial Bid should be submitted separately.
2. Technical Bid will be considered first by the Technical Committee and if Technical Bid found satisfactory in all the respects, Financial Bid shall be taken into Consideration.
3. For each item quoted technical details should be as per the required specifications by the university.

**Terms of Payment**

1. All the goods delivered shall be accepted only after found in good and satisfactory conditions.
2. 80% payment against delivery after physical inspection of the specifications of the machines/Instruments.
3. 20% payment after installation & against performance bank guarantee for the same amount for the entire warrantee period.

  
Registrar

# छत्रपति शाहू जी महाराज विश्वविद्यालय, कानपुर

## CHHATRAPATI SHAUJI MAHARAJ UNIVERSITY, KANPUR



कल्यानपुर, कानपुर  
KALYANPUR, KANPUR

Ref. No. ....

Dated ..... 20.....

Details of Tender Document are given below:

1. Name of Applicant :-
2. Father's Name :-
3. Address :-
4. Mobile Number :-
5. Trade Tax No. :-
6. TAN No. :-
7. PAN No. :-
8. Work Experience with proof :-
9. Demand draft details :-

Validity period:-

Name of Bank: \_\_\_\_\_ Draft Number: \_\_\_\_\_ Date \_\_\_\_\_

Amount: \_\_\_\_\_

10. Details of earnest money deposit: -

Name of Bank: \_\_\_\_\_ Draft/FD Number: \_\_\_\_\_ Date \_\_\_\_\_

Amount: \_\_\_\_\_

(Note:- Attach separate sheet if required.)

I / We fully agree to all the above terms and conditions.

List of enclosures

Tenderer's Signature with Stamp.

# SPECIFICATIONS OF EQUIPMENTS

## CSJM, UNIVERSITY, KANPUR

1. Name of tendrer :
2. Address :
3. Email ID :
4. Contact :
5. TIN :

S. No.	Equipments (for details refer to the annexure)	Qty.	Rate	Amount	Tax	Total Cost	Earnest money
1.	Microplate Elisa Washer : (Annexure 1)	1					
2.	Fully Automated Hematology Analyzer: (Annexure 2)	1					
3.	Random Assess Fully Automatic Clinical Biochemistry Analyzer (Annexure 3)	1					
4.	Double beam UV-VIS Spectrophotometer (Annexure 4)	1					
5.	Refrigerated High speed centrifuge (Annexure 5)	1					
6.	Compound Microscope with photomicrography attachment (Annexure 6)						
7.	Hot Air Oven: (Annexure 7)	2					
8.	Hot plate cum magnetic stirrer (Annexure 7)	2					
9	Heating Mantle (Annexure 7)						
	1 Lit. Capacity	1					
	2 Lit. Capacity	1					
10.	pH Meter (Annexure 7)	2					
11.	Conductivity meter (Annexure 7)	1					
12.	Magnetic stirrer (Annexure 7)	1					
13.	Magnetic bars (Annexure 7)	10					
14.	Vortex Mixer (Annexure 7)	1					
15.	Identity Card Printer: Dual-sided printing module, edge to edge printing , Color dye sublimation , monochrome thermal transfer, 300 dpi print head (11.8 dots/mm), 16MB Memory (RAM)	1					
16.	Scanning & Content Storage Solution: Complete scanning solution along with a content management software, for the scanning and storage of the precious documents.	1					
17.	Window Air conditioner (2 Ton) with stabilizer and installation	32					
	<b>Total</b>						

## Microplate Elisa Washer

### Physical Specification

Width	390 mm
Length	450 mm
Height	190 mm
Weight (net)	13 Kg

### Power Supply

Voltage	110 V – 220V
Frequency	50 Hz/ 60 Hz
Fuses	T 3.15A, L250V

### Storage & working conditions :

Temperature	0°C – 40°C
Humidity	≤ 85 %

### General Specifications :

**Operating Panel** Liquid Cristal Display with Keypad

**Self Test** Yes

**Compatible Plates** Polystyrene flat U & V bottom plates & 8 or 12-well strip plate

**Manifold** 8 way -12 way

**Wash Bottles** 3 bottles X 2 lit.

**Waste Bottle** 1 bottle X 2 lit.

**Rinse Bottle** 1 bottle X 2 lit.  
**Memory** 10 locations for plate settings 100 program locations

**Incubator** 2- Plate Incubator at 25°C, 30°C, and 37°C

**Interface** Bi-directional RS-232C Serial interface

### Operational Specifications :

**Washing Options** Plate washing, Strip washing, raw-skip washing with Programmable wash  
 Volume : 10-3000µl  
 Soak time: 0- 23hr, 59 min.: 59s  
 Shake time: 0- 23hr, 59 min.: 59s  
 Aspiration/ Dispensing or Prime/ Rinse options

**Aspiration Speed** Software adjustable  
**Dispensing Speed** Software adjustable  
**Washing Modes** Cross wash, Bottom wash  
**Residual Volume** <2µL  
**Hang up time** 1-120 min

*Handwritten signature*  
 05/07/12

### Fully Automated Hematology Analyzer

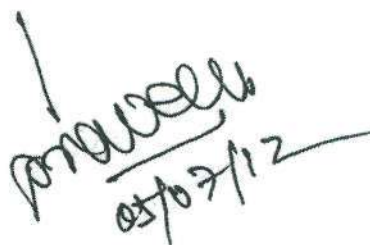
<b>Parameters</b>	WBC, RBC, Hgb, PLT, HCT, MCV, MCH, MCHC, RDW, MPV, PDW, PCT, LYM#, LYM%, MON#, MON%, GR#, GR%
<b>Histogram</b>	WBC, RBC, PLT
<b>Measuring Principle</b>	Blood Cell : Electrical Impedances Hemoglobin : Surfactant Method
<b>Sample Volume</b>	Normal Value : 30 $\mu$ L High Dilution Mod : 10 $\mu$ L Capillary Mode : 10 or 20 $\mu$ L
<b>Display</b>	5.7 inch color TFT Touch Screen
<b>Aperture size</b>	WBC : 80 $\mu$ m RBC : 80 $\mu$ m
<b>Accuracy</b>	WBC : within 2.0 % CV RBC : within 1.5 % CV Hgb : within 1.5 % CV PLT : within 4.0 % CV MCV : within 1.0 % CV
<b>Throughput</b>	Maximum 63 Sample/hour
<b>Sampling</b>	Open Tube (optional close Tube)
<b>Printer</b>	External Dot Materix Printer Optional Thermal Printer
<b>Data Storage</b>	Numerical Data : 400 Samples Histogram : 50 Samples
<b>Interface</b>	USB, RS-232C Serial port
<b>Sample Identification</b>	Patient ID Setting by 13 Alphanumeric Characters Optional BAR CODE Reader
<b>Dimension</b>	38H X 23W X 45D cm; 18 Kg
<b>Power Supply</b>	220 – 240 V, 50-60 Hz, 120 VA

  
 05/07/12

## Random Assess Fully Automatic Clinical Biochemistry Analyzer

Throughput	240 test/ hour
Positions refrigerated reagents	30
Positions for Racks not refrigerated	3 Rack multipurpose
Samples per Rack	24
Max. Number of Samples	72
Sample Tube	ø13, ø15mm (max. height 100 mm) Cups ø13 mm
Reagents per Rack	10
Max. Number of Reagents not refrigerated	20
Reagent Bottles	20 mL and 50 mL
Dispensing tip	Stainless Steel
Level Detection	Capacitive
Dosing Pump	Ceramic Piston
Reagents Volume (Program)	10 µL - 440 µL
Sample Volume (Program )	3 µL - 40 µL
Liquid System Bottle Volume	2700 mL
Waste Bottle Volume	2700 mL
Washing Solution Bottle Volume	2700 mL
Reusable Methacrylate Rotor Number of Wells	120
Reaction Volume range	200 µL - 800 µL
Lightpath	6 mm
Light Source	Halogen lamp 12V, 20 W
Photometric Detection System	Silicon Photodiode
Measurement Range	From - 0.05 A to 2.5 A
Spectral Range	340 nm – 900 nm
Filter Configuration	340, 405, 505, 535, 560, 600, 635, 670
Physical Dimensions	1080 X 695 X 510 mm (long X wide X height)
Weight	73 Kg (162 lb)
Sample Barcode	Possible (optional)
Emergency Tests	Unlimited Stat facility

- Pre & Post dilutions for Abnormal Samples
- Real time monitoring of work list
- Analyser with Remote Service facility

  
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### Double Beam UV/VIS Spectrophotometer

#### Specifications/Item Description

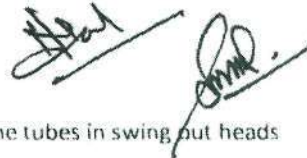
Monochromator Equipped with high resolution concave diffraction grating (1200 lines/mm grating or more) and Seya-Namioka mount  
 Provision of holding several (4 to 8) cuvettes  
 Wavelength range - 190~1100nm  
 Spectral bandwidth - 1nm  
 Stray light - 0.05% or less (220nm NaI, 340nm NaNO<sub>2</sub>)  
 Wavelength Accuracy-  $\pm 0.3\text{nm}$   
 Wavelength Setting Repeatability  $\pm 0.1\text{nm}$   
 Mode - Basic/Qualitative/wavelength scan/DNA Protein Test/Kinetics  
 Photometric mode - Abs, %T, Conc.  
 Photometric range - Abs:  $3.000 \times 10^{-3}$ ~3.000, %T: 0~600%T, Conc: 0.000~9999  
 Photometry Accuracy (Measured with NIST 930D Filter)  
 $\pm 0.002\text{Abs}$  (0~0.5Abs)  
 $\pm 0.004\text{Abs}$  (0.5~1.0Abs)  
 $\pm 0.008\text{Abs}$  (1.0~2.0Abs)  
 $\pm 0.3\%T$   
 Photometry Reproducibility (Measured with NIST 930D)  
 $\pm 0.001\text{Abs}$  (0~0.5Abs)  
 $\pm 0.002\text{Abs}$  (0.5~1.0Abs)  
 $\pm 0.004\text{Abs}$  (1.0~2.0Abs)  
 $\pm 0.15\%T$   
 Baseline Flatness  $\pm 0.002\text{Abs}$  (200 to 950 nm)  
 Baseline Stability - 0.0003Abs/h (at 500 nm) 2 hours after power up  
 Noise Level 0.0003Abs/300s (500nm)  
 Wavelength Scan Speed - 10, 100, 200, 400, 800, 1200, 2400, 3600nm/min  
 (low/medium/fast)  
 Light Sources - W1 lamp, D2 lamp, Tungsten halogen lamp  
 Light Source Switchover Automatic changeover, 325-370nm selectable  
 Detector - Silicon photodiode  
 Display - Liquid Crystal Display (LCD)  
 Printer Interface - PC/L3 or ESC/P  
 Storage Interface - USB Flash Disk  
 Communication Function RS 232C, bi-directional  
 Power Source - 220 / 230 / 240V 50/60Hz  
 Power Consumption - 200VA



### High Speed Refrigerated Centrifuge

#### Specifications

- Floor model or table top model
- Microprocessor controlled with programming facility with programme memory
- Brush-less induction motor with frequency drive
- Precise speed control and reproducibility
- Pre setting of speed, temperature and time
- Speed holding accuracy 100 RPM
- Safety lid interlock to prevent cover opening during centrifugation
- Digital speed indicator, 0-99 minute digital countdown timer with temperature indicator
- Dynamic brake
- Imbalance detector with cutoff
- Over current overheating safety cutoff for motor protection
- Interactive alpha numerical LCD display
- Menu driven ten programme memory
- Choice of 9 acceleration and 9 deceleration profiles and coasting
- Self-diagnosis for errors
- Unique safety rotor identification
- Maximum speed – 20000 rpm
- Maximum RCF – 37500 g
- Lowest Temperature – -8 °C
- Maximum Tube size – 200 ml
- With swing out rotor and angular type rotor
- With reduction adapters for accommodating variable size/volume tubes in swing out heads



**TRINOCULAR MICROSCOPE & DIGITAL CAMERA ATTACHMENT**

OPTICAL SYSTEM	INFINITY CORRECTED OPTICAL SYSTEM		
MAGNIFICATION	40x- 1000x FOR OBSERVATION.		
EYEPIECE TUBE	TRINOCULAR TUBE (INCLINATION: 30°. INTERPUPILLARY DISTANCE: 47-75mm) with Light Path Selector of 100:0, 0:100)		
EYEPIECE	10x pair with F.O.V: 20mm or better		
NOSEPIECE	QUADRUPLE NOSEPIECE, REVERSED TYPE.		
STAGE	SHOULD BE REFOCUSING TYPE THE STAGE CAN BE INSTANTLY DROPPED BY PUSHING IT DOWN TO EXCHANGE SPECIMENS OR OIL THE SLIDE, THEN RETURNS TO THE ORIGINAL POSITION AS SOON AS THE HAND IS REMOVED.		
STAGE SIZE	STAGE SHOULD BE RECTANGULAR 216 x 150mm SURFACE STAGE MOUNTED ON THE MAIN BODY. STAGE SHOULD ACCOMODATE 2 SLIDES AT A TIME. STAGE SHOULD BE PROVIDED WITH UPPER LIMIT STOPPER.		
OBJECTIVES	<b><u>OBJECTIVE</u></b>	<b><u>N.A</u></b>	<b><u>W.D</u></b>
	PLAN ACHROMAT 4x	0.10	30.0MM
	PLAN ACHROMAT 10x	0.25	7.0MM
	PLAN ACHROMAT 40x	0.65	0.56MM
	PLAN ACHROMAT 100x OIL	1.25	0.20MM
CONDENSER	Abbe Condenser 1.25 NA		
ILLUMINATION SYSTEM	6V – 30W HALOGEN BULB PRECENTRED AND PREFOCUSED.		
COARSE/ FINE FOCUSING	FINE: 0.2mm PER ROTATION, COARSE: 37.7mm PER ROTATION, MINIMUM READING: 2 MICRONS ON LEFT- SIDE FINE CONTROL KNOB.		

**Digital camera :- use in Field as well as Microscope. Aprox 10Mega Pexil or more , 2 GB Memory Card, Adaptor, USB cable.**

**Data Collection and processing unit:** Branded, Pentium Core 2 Duo , 2 GB RAM, DVD Writer, 200 GB or higher HDD, 17" TFT Monitor

Upgradable upto Fluorescence & Phase Contrast at any time.



# Annexure 7

Hot Air Oven (Vertical Model, Front opening door, Top / Bottom mounted control panel for easy access. Inner made of stainless steel with mirror polish, Outer body made of mild steel with powder coat finish. Electrically operated Thermostat & 3 – Heat Switch Control with corresponding indicators, Nichrome / Kanthal made long lasting heating elements)	01 (18" X 18" X 24", 3 shelves) 01 (36"x36"x36", 3 shelves)
Hot Plate cum Magnetic stirrer (digital display, timer, Stirring speed: 10-1000 rpm; Capacity: up to 2 Lit., temp. setting, temp. Accuracy: $\pm 2^{\circ}\text{C}$ )	02
Heating Mantle (with energy regulator, switch and indicating lamp)	01 (1 Lit. capacity) 01 (2 Lit. capacity)
pH Meter (microprocessor based, range 0-14, resolution 0.01 pH, accuracy $\pm 0.01$ , buffer calibration pH -4, 7, 9.2)	02
Conductivity Meter	01
Magnetic Stirrer (with switch, indicating lamp, timer, stirring speed: 0-1250 rpm)	01
Magnetic Bars	10 (8x30 mm)
Vortex Mixer (100-3000 rpm, touch/continuous operation, working between 4 to 60 $^{\circ}\text{C}$ )	01
Total	