

Notice Inviting e-Tender

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SUPPLY AND COMMISSIONING OF MEDICAL EQUIPMENTS FOR BLOOD COMPONENT SEPARATION UNIT FOR THE HOSPITALS AND MEDICAL COLLEGES OF THE GOVT. OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT- 52 /2016

Dated – 15.09.2016

The following amendments have been made in the tender document,

AMENDMENT - I

REVISED TECHNICAL SPECIFICATIONS

SCHEDULE – I PH Meter

1. It should be digital electronic pH Meter with combination pH electrodes **with thin glass type suitable for use in eppendorf type tube.**
2. It should have pH range: 0.0 to 14.0 pH with 3^{1/2} digital display.
3. It should have 0.0 to 19999 mv range.
4. Its have accuracy – repeatability and resolution: 0.01 pH
5. **Calibrators** should be provided
6. Temperature compensation & pH standardization: 00 to 1000C (manual)
7. It should be operational on 220-240 volts, 50 Hz, single phase supply
8. It should work properly on ambient Temperature: 00 to 40°C. 40°C at 95% RH.
9. **It should have suitable in-built replaceable battery.**

10. The details of battery should be provided.
11. Equipment should be supplied with suitable stand & case to be provided.
12. Warranty: 2 years; CMC: 5 years

SCHEDULE – II

Refrigerator for Kits & Reagent Storage with digital display

1. Description: Vertical, frost free, CFC free, Single Glass Door, Door with key lock
2. Capacity: From 400 – 600 L
3. Temperature range: Should be from 2°C to 8°C throughout the Chamber
4. Temperature should be controlled by micro-processor controller
5. Should have digital display of temperature with alarm device (audio-visual)
6. Number of Shelves: Should have minimum 4 nos with adequate space along with 4 additional perforated plastic tray for air circulation as accessories.
7. Shelves should be adjustable / removable
8. Should be supplied with suitable voltage stabilizer
9. Power supply: 230 V AC, 50-60 Hz
10. Warranty: 2 years; CMC: 5 years

SCHEDULE – IV

Micropipette Single Channel adjustable type

1. ISO 8655 certified.
2. Fully autoclavable
3. Single channel Pipette
4. Variable Volumes
5. Warranty: 2 years; CMC: 5 years
6. Compatible with universal tips

Range	Increment	Accuracy	Precision
1 to 10 μ L	0.1 μ L	\pm 2.5 to 1%	2 to 0.5%
20 to 200 μ L	1 μ L	\pm 1.8 to 0.62%	0.7 to 0.2%
100 to 1000 μ L	5 μ L	\pm 1 to 0.6%	0.6 to 2%

SCHEDULE – VII

Cell Counter

1. The machine should be Fully Automated Haematology Analyzer providing at least 19 parameters including 3-part differential, with user definable settings to have both RDW-CV & RDW-SD.
2. Cost per test, onboard stability & test pack size to be included in Form 10 & Form 13.
3. The system should be capable of processing samples at a speed of at least 60 samples per hour in whole blood mode. Pediatric mode should be there for analyzing low volume samples with reportable results for differential parameters along with total counts.
4. The system should use the proven and approved “Volumetric Metering” system of cell counting for WBC’s, RBC’s and PLT’s for high precision of the results & stability of the calibration. WBC differential parameters such as Neut, Lym & Mixed Cells in absolute count will be preferred.
5. The system should have a large LCD display to have a review of all results along with the three histograms of WBC, RBC & PLT on the screen with automatic floating discriminator.
6. The instrument should have a provision for pediatric sample analysis, analyzed at a lower volume of whole blood without using capillary.
7. The system should be a two reagent system other than a cleaner with non-cyanide based reagent for Hb estimation, using high intensity LED and not lamp.
8. The system should have world reference “Electrical Impedance” method of cell counting for the reliability of the results, with an integrated temperature sensor for monitoring & compensating for shifts in room temperature. The system should have inbuilt probe wiping after every sample.
9. 4 sets of tri-level control to be supplied in a staggered manner over a period of 6 months.
10. External Roller Mixture with capacity of at least 6-9 vials to be supplied.

11. Equipments should be supplied (staggered) with a free reagent for testing 5000 samples in a span of 6 months.
12. The system should have a low cost per test (considering a load of 1000 samples per month).
13. All the reagents should have at least 1 year expiry.
14. Should be supplied with 1KVA online UPS (Libert / APC) having 30 minutes back up.
15. All reagents required should be available locally from the company or its authorized distributor within 7 days of placement of order.
16. Warranty: 2 years; CMC: 5 years.
17. Product certification: CE / US FDA / BIS certified.

SCHEDULE – IX

PLASMA THAWING BATH

1. TECHNICAL CHARACTERISTICS:

1.1. Construction:

- Table top with top opening having a deep thawing chamber with a stirrer and with water maintained at 37 ± 1 deg C with pumping mechanism and inline heating system to ensure uniform thawing.
- Quick thawing (<20min) should be able to thaw **minimum of 6** plasma bags of **standard 300 ml capacity** (FFP/cryoprecipitate/Aphaeresis or plasma bags).
- Tray with individual compartment to ensure that port of bags should be kept above water levels during the procedures.
- Should give an alarm when the plasma bags are thawed.
- Should have digital temperature display.
- Should have audio visual over temperature alarm system.
- Should have a system to drain the chamber easily.
- Should be supplied with a cover to keep the unit covered when not in use.
- Simple to use and easy to read LED display.
- Drain line with shut-off **valve**.

- 1.2. **Tray:** Removable type Stainless **Steel** trays with partitions for holding plasma bags.
- 1.3. **Capacity:** **minimum of 6** plasma bags of **standard 300 ml capacity**.
- 1.4. **Setting:** Manual
- 1.5. **User's interface:** Manual
2. **Energy Source (electricity, UPS/battery, solar):**
 - 2.1. **Power Requirements:** Input voltage 220 /240V 50Hz single phase.
 - 2.2. **Other energy supplies:** Suitable UPS with maintenance free batteries for minimum 30 mins backup should be supplied with the system.
3. **ACCESSORIES SPARE PARTS CONSUMABLES:**
 - 3.1. Reusable wrap bag 500 numbers.
4. **ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATION:**
 - 4.1. **Atmosphere/ Ambiance (Air-conditioning, Humidity, Dust):-** Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%
Capable of operating continuously in ambient temperature of 10 to 40 degree C and relative humidity of 15 to 90%
 - 4.2. **Additional requirement:** all equipment should specify design qualification operational qualification and performance qualification validation and calibration report should have traceability towards applicable National/International standards. Performance efficiency other factor such as distortion etc as applicable be also furnished. Complete construction details in respect material specification thickness finish etc are to be furnished.
5. **STANDARD AND SAFETY:**
 - 5.1. **Product Certification:** CE or US FDA certified
 - 5.2. **Quality certifications:** ISO certified
 - 5.3. Supporting documents to be provided for protection of electrical safety.
6. **WARRANTY AND MAINTENANCE:**
 - 6.1. **Warranty:** 2 years
 - 6.2. **CMC:** 5 years

SCHEDULE – X

Water Bath – Serological

1. TECHNICAL CHARACTERISTICS:

1.1. Water Bath with MICROPROCESSOR technology

- Bright temperature display (LED)
- Seamless, splash – proof keypad
- Splash-proof mains switch
- Optical warning signal with timer for the cut off function
- Drain screw for conveniently emptying the bath
- Dry-running protection
- Removable bottom plate
- Should have audio-visual alarm if temperature should serve more than the setting
- Working temperature range: Room temp upto 100° C
- Temperature Stability: $\pm 1^{\circ}$ C
- Display: LED
- Display Resolution: 1° C
- Heater Capacity: 2000W
- Filling Volume: minimum 20 Ltrs.
- Should have a stirrer
- Settings: Manual
- User's Interface: Manual

2. PHYSICAL CHARACTERISTICS:

2.1. Heat Dissipation: 2000w

3. ENERGY SOURCE (electricity, UPS solar, gas, water, CO2.....):

3.1. Power requirement: Input voltage 220/240v 50Hz

4. ACCESSORIES, SPARE PARTS, CONSUMABLES:

- 4.1. **Accessories & spare parts:** Complete with comprehensive set of spare parts. The make, rating, model, description, specification, price, quantity or each item shall be furnished separately.

5. ENVIRONMENTAL & DEPARTMENTAL CONSIDERATIONS):

- 5.1. **Atmosphere / Ambiance (airconditioning, humidity, dust..):** Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%
- 5.2. **Additional requirement:** All equipments should specify design qualifications, installation qualifications, operational qualification and performance qualifications, validation and calibration reports should have traceability towards applicable national/ international standards. Performance, efficiency, other factors such as distortions etc as applicable be also furnished. Complete construction details in respect of manual specification, thickness, finish etc are to be furnished.

6. STANDARDS & SAFETY:

- 6.1. **Product Certification:** CE or US FDA certified
- 6.2. **Quality Certification:**ISO Certified
- 6.3. **Supporting documents** to be provided for protection of electrical safety.

7. WARRANTY & MAINTENANCE:

- 7.1. **Warranty:** 2 years
- 7.2. **CMC:** 5 years