



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited Swasthya Sathi GN-29, Salt Lake, Sector-V Kolkata-700091

Phone No (033) 40340307/320
E mail: procurement@wbmsc.gov.in

Procurement of Different Medical Equipment for Medical College & Hospital
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-555/2025

Dated-26.06.2025

AMENDMENT-I

Schedule-II

12-color Flow Cytometer

1. The system must be equipped with 3 solid state lasers (405 nm Violet, 488nm Blue & 633-642nm Red) having a minimum 10/ 12 fluorescence parameter output to support the multicolor capability of the instrument. All the lasers & detectors should be fixed aligned for data consistency and reliability on a day-to-day basis.
2. The equipment should have dedicated beam-spots for each laser. All the fluorescence detector channels and side scatter channel must be designed with photo multiplier tube (PMTs)/ Avalanche Photo Diode (APD) for voltage optimization with stabilized CV & minimal electronic noise contribution for achieving best resolution even for dimly stained population.
3. Pulse Height, Area and Width information available for all parameters to be able to discriminate doublets based on size, granularity & nucleic acid content.
4. Digital Signal processing should allow threshold to be set on all available channels simultaneously in any combination of all available parameters during sample acquisition.
5. For high throughput, the analysis speed should be at least 25000 events per second or better with all the parameters available. The system apart from offering low, medium & high flow rates, should also offer high sensitivity fluidics aspiration mode, which can result in higher fluorescence signal resolution for dim stained population.

6. The System should have sample carry over of <0.1% or better in single tube loading format with cells for rare cell populations discovery and novel marker identification.
7. The system generated compensation should be valid for a minimum of 60 days and updated with daily QC.
8. Instrument software should have pre-defined assay template with Automated/Manual gating strategy flowing ISHAGE guidelines for accurate measurement of CD34+ stem cells.
9. Instrument should have, Euro Flow Consortium developed and optimized step-by-step standard operating procedure (SOP) for instrument set-up and compensation for standardized and fully comparable fluorescence measurements of changes in the relative distribution of the different leukocyte populations and sub-populations to enable screening of suspected primary immunodeficiencies.
10. The system should be supplied with a dedicated analysis software to perform multi-colour flow analysis including plot overlay, cell cycle analysis.
11. This system must be capable of standardization and collaboration between inter-lab/intra-lab through assay portability feature to maintain consistency in data quality. The system should not have any event acquisition limit.
12. Instrument software must be capable of exporting data as FCS file per population. The quoted system software should be CE-IVD/ US- FDA approved.
13. The system should provide analysis software including MRD for minimum period of 5 years
14. System should be bidirectional LIS compatible Latest model should be quoted.
15. The system should be in a single tube acquisition format & upgradable in future to universal plate / tube loader platform which can accommodate more than 20 tubes rack / 96 & 384 well plates directly for complete walk away automation.
16. The system should be offered with suitable workstation and UPS having minimum of 30min backup & one-color laser printer.
17. The company should supply all the startup reagents, for smooth installation of instrument, in free of cost.
18. The company should provide onsite full application training for doctors and technicians free of charge.
19. Comprehensive Warranty with parts and accessories for 2 years.
20. All technical claims must be supported with company (OEM) approved documents.
21. Standard & Safety Certification: Valid CDSCO Certificate License for the manufacturer(s) & Registration Certificate from CDSCO for the importer(s) as applicable.



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Schedule-III

Gel System for Coomb's Test

A. General Features:

1. Should be a closed system compatible with company provided Gel cards.
2. Should allow selection of economically viable solutions for blood grouping, Coombs tests (OAT) & cross matching, antibody screening, Rh+K phenotyping, antibody identification etc.
3. The company should offer complete panel of ready to use liquid red cell reagents for antibody screening & identification, including the Anti-D prophylaxis panel for Rh negatives.

B. Centrifuge & Incubator for Column Agglutination Technology

1. System should be semi-automated tabletop analyzer.
2. Centrifuge should have slots for minimum 12 gel cards at a time.
3. Should have Microprocessor controlled programming with Touch keypad or touch screen with Digital user interface screen (LCD display) provided for control and visualization of RPM or RCF, time and other functions in real time.
4. Should have appropriate alarm provided for Imbalance & end of cycle.
5. Should be light weight yet robust design.

6. Should be tabletop type with ergonomic designed Aerodynamic compact construction with vibration free performance; Noise level should be less than 60dB.
7. Should have single Hand Rotor removal facility for easy cleaning.
8. Swing out suspensions for Gel card slots.
9. Lid of the centrifuge should be transparent and should have auto-locking during spinning.
10. System should open automatically door lock assembly after end of the process.
11. The technology should not have any washing step and should avoid nonspecific results.
12. Incubator should fit all types of gel cards with 37°C temperature & suitable time setting.
13. Should be able to Incubate minimum 20 cassettes / cards
14. Should have display of remaining incubation time and temperature.
15. Should have Pre-set temperature 37°C ±1°C
16. Should have appropriate Alarm for High-low temperature, End of cycle
17. Incubation time can be adjustable from 0 to 60 min.
18. Should be Bench or tabletop model having Light weight yet robust design.

C. Electrical characteristics:

- a. Centrifuge and incubator or the combined system should work with Input voltage: 220 to 240V, 50/60 Hz AC, Single phase and should be provided with Indian plug.
- b. Should have an integrated or external voltage stabilizer of suitable rating.

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AMENDMENT-I

Schedule-IV

Binding site Freelite Assay

Physical Specifications

- Power requirements: 100-240V \pm 10%, 50-60Hz \pm 5% 300W
- Water consumption: 2L / hour

Reagents

- 36 dual-reagent positions
- Continuous loading / unloading
- On-board cooling
- Level detection

Samples

- 54 positions
- Continuous loading / unloading
- Auto-dilution and auto-rerun to end result
- Sample types: serum, plasma, urine, CSF
- Range of primary and secondary tubes, disposable cups
- Accepted barcodes

Reaction Module

- 360 self-loading cuvettes
- Reaction temperature $37^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$ Optics
- Wavelengths: 12 discrete
- Xenon lamp

Software

- Windows- 7 based software
- Levy-Jennings and Westgard QC monitoring
- LIS compatibility

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AMENDMENT-II

Schedule-IV

Binding site Freelite Assay

BOQ has been changed



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AMENDMENT-I

Schedule-V

Ultra Low Temperature -86° Deep Freezer

-86°C Ultra low Temperature Freezers: Capacity (L): 500 - 550 lit

Temperature set (°C) : - 40 to - 86 degree C

Temperature control: Microprocessor

Temperature display: Touch screen

Temperature increment: 1 degree

Exterior Material: Spray cold rolled steel plate

Interior Material: Stainless steel

Shelve height adjustable: YES

Nos. of Shelve: 3

Under voltage & over voltage protection

Digital display of temperature

Audio visual alarm for under/over voltage temperature

CFC free/ Green Gas

Empty freezer should not warm to -40 degree C from -80 degree C set point in 4 hours during a power failure in a 20 degree C room

Freezer must maintain a sound level no louder than : 52 dB (A).

Sufficient rack with boxes Carboard / Polycarbonate sufficient to fill complete freezer.

2-year parts and labour standard warranty

Servo Voltage stabilizer Compatible

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