



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

Supply and Commissioning of Medical equipment for the District Integrated Public Health Laboratory

(Discipline-Haematology)

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-01/2023

Dated-03.01.2023

AMENDMENT-I

REVISED TECHNICAL SPECIFICATION

ITEM-1

Cell counter automatic (5 part) for haematology

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|------------------------|---|---|
| Performance Parameters | Type of system offered | closed system |
| | Analysis principle | LASER based scatter analysis |
| | Type of cell counting | 5 part WBC differential |
| | NRBC% | Yes |
| | Availability of body fluid(CSF, synovial, serous) parameters like WBCBF, RBCBF, MN#,MN%,PMN%,PMN#, TC-BF# | Optional |
| | Discrete analysis modes available | CBC,CBC+DIFF |
| | Analysis method for WBC | Tri angle Laser flow cytometry |
| | Method for platelet measurement | dual angle light scatter / fluroscnt |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|-----------------------------|--|---|
| | RBC Measurement method | Electrical impedance/ flow cytometry |
| | Hb measurement | cyanide free colorimetry |
| | No of sample racks to cater to different tube sizes | 1, with autoloader |
| | Maximum sample Aspiration volume needed in all modes | 50µl -100µl |
| | Minimum sample volume required in all modes | 20µl or less |
| | Throughput capacity in CBC/Differential | 80 or more |
| | Type of modes of sample running | Open vial |
| | Hemoglobin linearity | 0 to 25 gm per litre |
| | Availability of Auto dilution | Yes |
| | should have clot detection facility | Yes |
| | Type of Calibration | Both manual and automatic |
| | Separate diluting nozzles for RBC and WBC | Yes |
| | Double bathing mechanism | Optional |
| | Upgradable to integrate with attachment | Yes |
| Data Management and Display | Type of data management | inbuilt system |
| | Display | LCD/LED |
| | PC hard disk | Optional |
| | Inbuilt monitor size in inches | >5 |
| | Processor of PC Provided with system | NA (If PC not provided) |
| | RAM | NA (If PC not provided) |
| | HDD | NA (If PC not provided) |
| | PC Monitor size in inches if PC provided externally | NA (for Inbuilt based) |
| | HIS/LIS Interface | RS232 |
| | Type of external storage | USB |
| | No of USB Port provided | 4 |
| | Printer facility | Yes |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|--|--|-------------------------------------|
| | Type of printer unit | External |
| | Printer type | LASER printer |
| | "Database capability of storing sets of results and graphics" | >=20000 |
| | L J Plot facility | Yes |
| | delta check for cumulative review | Yes |
| | On line QC option | Yes |
| | QC File management | Yes |
| | Type of user Interface or data entry | all three |
| Power Requirements | Rating of online UPS in KVA | 1 KVA |
| | Back up time in minutes | 30 min |
| ACCESSORIES ,SPARE PARTS AND CONSUMABLES | "Offered equipment unit to be supplied with sufficient consumables (with at least 2/3rd of total shelf life) required for, sufficient to carry out haematological testing of samples" | 500 |
| | Net work integration with lab information system feature | Yes |
| Miscellaneous Parameters | Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue) | 2 Years |
| | Number of installations in Central / State / PSU Govt Hospitals (Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order) | More than 3 |
| | Availability of toll free facility for technical support maintained by OEM or authorised agencies | Yes |
| | Certification | CE / EC / UK Cert / US FDA / BIS |
| | Calibrator | 01 set |
| | Quality control | 01 set |
| | | |

ITEM-2
Cell counter semi-automatic (3 part) for haematology

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|-----------------------------|---|--|
| Performance Parameters | Type of system offered | closed system |
| | MID% analysis | Yes |
| | MtD# analysis | Yes |
| | Gran% analysis | Yes |
| | Gran# analysis | Yes |
| | Analysis method for WBC | Electrical impedance/ flow cytometry |
| | Method for platelet measurement | Electrical impedance/ flow cytometry |
| | RBC Measurement method | Electrical impedance/ flow cytometry |
| | Hb measurement | Photometric /direct cellular measurement |
| | Types of modes of running sample | Open vial |
| | Maximum sample aspiration volume needed in any of modes | should be less than 300 µl |
| | Minimum sample volume required | should be 100 µl or less |
| | Throughput capacity of analyser in (samples/ hour) | 60 or more |
| | Hemoglobin linearity | 0 to 25 gm per litre |
| | Availability of Auto dilution | Yes |
| | Type of Calibration | automatic, manual, both (automatic and manual) |
| | Direct aspiration for capillary blood | Yes |
| | Separate diluting nozzles for RBC and WBC | Yes |
| | Double bathing mechanism | Yes |
| Data Management and Display | Type of data management | Inbuilt system |
| | Display | LED / LCD / TFT |
| | Inbuilt monitor size in inches | More than 5 |
| | PC Monitor size in inches (When PC provided externally) | NA (if Inbuilt system) |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|--|---|--|
| | PC hard disk | NA |
| | RAM capacity of PC System | NA (if no PC provided) |
| | HIS/LIS Interface | HL7 |
| | Type of external storage | USB |
| | No of USB Port | 3 |
| | Data management systems | Provide histograms in display and print |
| | Type of user Interface or data entry | all three (touch screen / Non touch screen, handheld barcode reader facility and manual) |
| | "Database capability of storing sets of results and graphics" | >= 20000 |
| | Printer facility | No |
| | Type of printer unit | Inbuilt |
| | Printer type | Thermal printer |
| Power Requirements | Type of UPS | Online |
| | Rating of UPS in KVA | 1 KVA |
| | Back up time in minutes | 30 min |
| Accessories, spare parts and consumables | "Offered equipment unit to be supplied with sufficient consumables (with at least 2/3rd of total shelf life) required for, sufficient to carry out haematological testing of samples" | 500 |
| Miscellaneous Parameters | Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue) | 3 |
| | Number of installations in Central /State/PSU Govt Hospitals (Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order) | More than 3 |
| | Availability of toll free facility for technical support maintained by OEM or authorized agencies | Yes |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|---|----------------------------------|----------------------------------|
| Additional Specification Parameters - Automated Hematology Analyser (3 Part) | | |
| Specification Parameter Name | Bid Requirement (Allowed Values) | |
| Certification | CE / EC / UK Cert / US FDA / BIS | |
| Calibrator | 01 set | |
| Quality control | 01 set | |

ITEM-3

Binocular Microscopes

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|---|--|---|
| CONFORMITY / TYPE / EYE PIECE - OBJECTIVE DETAILS | Microscope Type | research binocular non hinged type with built in light and with light intensity regulator |
| | Eye piece Type | Compensating, (FOV : 20 mm or more) |
| | Eye Piece with magnification | Set of Two For Binocular 10x |
| | Objective Type | Plan achromatic |
| | Objective Magnification | 40X to 1000X |
| | Numerical Aperture of Objective | 1.25 |
| | Number of installations in Central / State / PSU Govt Hospitals (Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order) | 3 or more |
| | Type of lamp for Illumination | led |
| ACCESSORIES | Extra eyepieces (inclusive in the scope of supply) | 1 pair of eyepieces |
| WARRANTY | Warranty | 3 years |
| Specification Parameter Name | Bid Requirement (Allowed Values) | |
| Objective Magnification | 4X,10X,40X & 100X (oil immersion) | |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|---------------|----------------------------------|-------------------------------------|
| Certification | CE / EC / UK Cert / US FDA / BIS | |

ITEM-4

Centrifuge (fixed head) table-top 16 tubes. Up to 6000 RPM

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|---|---|--|
| Performance Parameters | RPM | up to 6000 (adjustable) |
| | Type of Motor | Brushless (without carbons) |
| | Ambient operating Temperature range in Degree centigrade Celsius and humidity range | 0 to 50 degree centigrade and Relative humidity 15 to 90% |
| | Speed Control Accuracy in case of set speed (Plus minus RPM) | 50 |
| | Rotor configuration | Angle Rotor |
| | Maximum Volume of the tube testable | 10 ml. |
| | Rotor Size (Capacity) | 16 Vacutainers (with 10 ml adapter) |
| | Warranty in Years | 2 |
| Material Parameters | Body Material of Medical Centrifuge | C.R.C Steel Finish with Powder Coating or stove painting / ABS plastic of injection moulding |
| Reports | ISO certification for Manufacturer | Yes |
| Additional Specification Parameters - Medical Centrifuge | | |
| Specification Parameter Name | | Bid Requirement (Allowed Values) |
| Additional adapter | | 6 ml. adapter 16 units |
| Certification | | CE / EC / UK Cert / US FDA / BIS |

ITEM-5
Deep Freezer (-20°C)

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|---------------------------|--|-------------------------------------|
| ITEM | item | Vertical (Upright) Freezer |
| DESIGN | No of Door | Double |
| | Position of Door | Front Opening |
| | Door Type | Hinged |
| | Air Tight Door | Yes |
| | No of shelves | 6 (adjustable) |
| | Wheels | Yes |
| | Type of Insulation | Poly Urethane Foam |
| | Method of Defrosting | Forst free |
| | Type of cooling | Direct |
| MATERIAL | Material of chamber interior | Stainless steel 304/ABS |
| | Material of chamber exterior | Stainless steel 304/ABS |
| | Door Material | Stainless steel 304/ABS |
| | Cooling Coil Material | Copper |
| CAPACITY AND DIMENSION | Storage Volume(Net Capacity) (Liters) | 650 Litres or more |
| | Insulation Thickness(in mm) | As applicable |
| | Holdover Time(minute) | 15 or more |
| PERFORMANCE | Compressor | AC/DC Compressor |
| | Set temperature range(delta) | 5 |
| | Minimum achievable Temperature At 32 degree Centigrade | -22°C (accuracy ±0.5°) |
| | Voltage | Single Phase 230V |
| | Voltage stabilizer | 150V to 250V |
| | Power Consumption (kw/day) | 6 |
| | Energy Efficiency | 3 star or more |
| | Number of installations in Central / State / PSU Govt Hospitals (| 3 or more |

| Specification | Specification Name | Bid Requirement (Allowed Values) |
|--|--|-------------------------------------|
| | Hint: Seller should supply a performance certificate of the device to the buyer in case demanded after placement of order) | |
| Additional Specification Parameters - Industrial Refrigerator, Chiller and Deep Freezer | | |
| Specification Parameter Name | | Bid Requirement (Allowed Values) |
| Warranty 2 years | | Mandatory |
| Lock System | | Mandatory |
| Display | | LCD/LED |
| Certification | | CE / EC / UK Cert / US FDA / BIS |