

ICMR-National Institute of Cholera & Enteric Diseases

P-33, C.I.T. Road, Scheme -XM, Beliaghata

Kolkata - 700 010

No. D-2/Equipment 2017-18(Part I)

Dated - 11.10.2017

Sealed Tender/Quotation is invited for the following Instruments for use in ICMR-NICED, Kolkata.

Sealed Tender, complete in all respects, signed with stamp of firm on each page including the tender should be dropped in the tender box placed in before the Despatch Section on 1st Floor on any working day from Monday to Friday within 11.30 a.m. to 5.30 p.m. Tender will be opened by Tender Opening Committee & in presence of tenderers or of their authorised representatives. **Last date of submission of quotation is on 06.11.2017 at 1.30 p.m.**

Last date of submission	06.11.2017 at 01.30 PM
Place of submission of EOI documents	Tender Box kept on the 1 st floor of NICED-I Building
Date of opening of Technical Bid	06.11.2017 at 03.00 PM
Date of opening of Price Bid	To be announced after verification of Technical documents
Place of Opening of EOI documents	Dr. B. C. Deb Auditorium, NICED-I Building
Address	P-33, CIT Road, Scheme XM, Beliaghata, Kolkata - 700 010
Telephone No.	(033) 2370-5533 / 4478

Important Instructions:

- i)** If any Instrument is proprietary nature, Proprietary Article Certificate should be provided.
- ii)** EMD in the form of Demand Draft / Pay order, in favour of Director, NICED, Kolkata from any Nationalized bank. EMD in any other form will not accept.
- iii)** The cost of **Tender fees of Rs. 500/- each items (Rupees Five hundred only) [Non-Refundable]** in the form of Demand Draft /Pay Order in favour of Director, NICED Kolkata from any Nationalised Bank .
- iv)** The validity of tender will be of one year from the date of approval of the Tenders.
- v)** The tenders must attach self attested photocopies of latest and valid GST registration certificate and proof of filling Income Tax returns, for assessment year 2016-2017. Failure to submit the same Tender will be invalid automatically. However Govt. of India / State Govt. Department and Public Sector Undertakings (Central/State) are exempted from submitting GST & Income Tax clearance certificate.
- vi)** Self attested PAN card should be submitted.
- vii)** Compliances certificate to tender specification is mandatory. Compliance/Deviation comparing the specification of the quoted model is to be mentioned.
- viii)** Technical literature / brochures / manuals should be submitted.
- ix)** User list and performance certificate to be attached.
- x)** Tender document duly signed with rubber seal of the firms in token of acceptance by the tenderer of all terms & conditions.
- xi)** Declaration in case of manufacturer or Authorization letter in case of distributorship /stockist should be submitted.
- xii)** Commitment of efficient after sales service from the bidder and that should be locally available for prompt action.
- xiii)** Indian Agents who submit valid registration with DGS&D Price can quote directly on behalf of their foreign principal.
- xiv)** In a tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
- xv)** If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- xvi)** Tender found defective in any of above conditions shall be rejected directly.

ICMR-National Institute of Cholera & Enteric Diseases

P-33 , C.I.T. Road Scheme –XM, Beliaghata

Kolkata – 700010

Date : 11.10.2017

Cost of Tender Fees Rs. 500.00 each items

(non-refundable)

Tender Information

Sealed Tenders is invited for supply of the following Instruments for use in ICMR-NICED, Kolkata

Sl. No	Tender Code No.	Name of the Instrument	Qty .	Estimated cost of the equipment (Rs.)	EMD (Rs.)	Last date of submission of bid (upto 1.30 PM)	Date of opening (3.00 PM)
1	D-2/ Equipment 2017-18 (1)	Thermal Cyclor with UPS	3	15,00,000.00	30,000.00	06.11.2017	06.11.2017
2	D-2/ Equipment 2017-18 (2)	Semi Dry blot	2	2,00,000.00	4,000.00	06.11.2017	06.11.2017
3	D-2/ Equipment 2017-18 (3)	Nano Drop	2	16,00,000.00	32,000.00	06.11.2017	06.11.2017
4	D-2/ Equipment 2017-18 (4)	-20°C Freeze	5	25,00,000.00	50,000.00	06.11.2017	06.11.2017
5	D-2/ Equipment 2017-18 (5)	Minifuge	2	2,00,000.00	4,000.00	06.11.2017	06.11.2017
6	D-2/ Equipment 2017-18 (6)	Refrigerated Table Top Micro centrifuge	4	20,00,000.00	40,000.00	06.11.2017	06.11.2017
7	D-2/ Equipment 2017-18 (7)	Medical Refrigerator	2	3,00,000.00	6,000.00	06.11.2017	06.11.2017
8	D-2/ Equipment 2017-18 (8)	pH Meter	1	1,00,000.00	2,000.00	06.11.2017	06.11.2017
9	D-2/ Equipment 2017-18 (9)	-80 deg C Ultrafreezer	2	12,00,000.00	24,000.00	06.11.2017	06.11.2017
10	D-2/ Equipment 2017-18 (10)	Ultra pure Water Purification System	2	16,00,000.00	32,000.00	06.11.2017	06.11.2017
11	D-2/ Equipment 2017-18 (11)	Biosafety cabinet	3	15,00,000.00	30,000.00	06.11.2017	06.11.2017
12	D-2/ Equipment 2017-18 (12)	Ice Flake Machine	1	3,00,000.00	6,000.00	06.11.2017	06.11.2017
13	D-2/ Equipment 2017-18 (13)	Accuri Bench Top personal Cytometer	1	25,00,000.00	50,000.00	06.11.2017	06.11.2017

Specifications:

D-2/ Equipment 2017-18 (1)

Name : THERMAL CYCLER WITH UPS

Quantity : 3 (THREE)

Specifications

1. Gradient Thermal Cycler with Peltier based heating and cooling based system for routine laboratory work
2. Multiple, independent, blocks for 0.2 ml tubes and strips, total 96-wells.
3. Minimum reaction volume should be 10 μ l.
4. Graphical touch screen / LED display with keypad
5. Heating and cooling rate: 2°C/s to 5°C/s
6. Temperature range : 4°C to 100°C
7. Temperature accuracy: $\pm 0.2^\circ\text{C}$ or better
8. Temperature uniformity: $\pm 0.4^\circ\text{C}$ or better well to well
9. Programmable temperature gradient to identify optimal annealing temperatures
10. Gradient range of 30°C to 72°C
11. Gradient accuracy: $\pm 0.1^\circ\text{C}$
12. PCR License for research. Documents of International Certification to be provided.
13. Suitable for 220 V, 50 Hz electrical supply
14. External USB and Ethernet ports
15. System compatible UPS 1 kVA or more with 30 min back up to be supplied
16. 3 Year Comprehensive Warranty +2 year AMC for the system
17. The vendor is expected to have full-fledged service set-up in Kolkata.
18. List of installations of the quoted model within last three years should be provided.
19. Performance Certificates from at least three users of government / government-aided research/academic institutes along with the installation certificates of the quoted model should be provided.
20. Compliance certificates should be included

D-2/ Equipment 2017-18 (2)**NAME : SEMI DRY BLOT WITH POWER PACK****QUANTITY : 2 (Two)****Specifications**

1. The system should allow fast, efficient blotting without buffer tank or gel cassettes.
2. Cathode plate or Anode should be of material which can provide consistency and reproducibility in results with durability and extended life-span of the equipment.
3. Simultaneous transfer capability of at least 4 mini gels (around 8x7 cm each).
4. Should come with a suitable power pack (3A, 300W), programmable system, Minimum 2 pairs of power outlets. Timer, Pause /resume function, Add on safety features like ground leak detection; overload / short-circuit detection; overvoltage protection is desirable.
5. Power requirement – 220VAC, 50Hz.
6. 3 Year Comprehensive Warranty +2 year AMC for the system
7. The vendor is expected to have full-fledged service set-up in Kolkata.
8. List of installations of the quoted model within last three years should be provided.
9. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
10. Compliance certificates should be included

D-2/ Equipment 2017-18 (3)

NAME : NANODROP/MICRO UV SPECTROPHOTOMETER
QUANTITY : 2 (TWO)

Specifications

1. Minimal sample consumptions: Should require ~1.0 μL of sample for measurement and samples may be recovered.
2. Simplicity: Plug-in and measure the sample (no software installation should be required).
3. Downstream application success: Accurate concentration and full spectral data (190-850 nm).
4. Productivity: Should eliminates need for dilutions, fast measurements (~5 seconds), Auto-Blank and Auto-Measure features.
5. Benchtop space: should require small space and no external computer.
6. Core application for quantification and purity: assessment of DNA, RNA or protein samples. Others: UV-Vis spectral analysis, enzyme kinetics, gold nanoparticles.
7. Instrument Control - Built-in touchscreen.
8. Limit of Detection dsDNA: 2.0 ng/ μL
9. Maximum Concentration dsDNA: 27,500 ng/ μL
10. Light Source: Xenon flash lamp (at least 2-year warranty)
11. Detector 2048-element CMOS linear image sensor
12. Pathlength: 0.030 to 1.0 mm, auto-ranging
13. Power Supply : 220 VAC, 50Hz.
16. 3 Year Comprehensive Warranty +2 year AMC for the system
17. Documents of International Certification to be provided
18. The vendor is expected to have full-fledged service set-up in Kolkata.
19. List of installations of the quoted model within last three years should be provided.
20. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
21. Compliance certificates should be included

D-2/ Equipment 2017-18 (4)**Name : -20 DEGREE FREEZER****Quantity : 5 (FIVE)****Specifications**

1. Upright model of 350- 450 litres capacity with 4-5 shelves.
2. Temperature range: -20°C or below.
3. Should be a Tropicalized system to work in high ambient temperature up to 32°C.
4. Should have highly insulation to prevent cooling effect loss at high ambient temp.
5. Should have high density injected CFC or HCFC free polyurethane.
6. Audio visual alarm for power failure, high and low temperature etc.
7. Should have Control & display – digital controlled with soft touch key pad.
8. Door key lock – Safety locking system
9. Should have a low Noise level
10. Door frame heated to avoid ice formation at door.
11. Internal chamber made of Stainless Steel and control panel at eye level
12. Should come with wheels for easy movement.
13. 6 nos stainless steel racks for storage of 8-12 cryo boxes each (80-100 vial of 2ml capacity per box) should be quoted optionally.
14. A suitable 5 KVA voltage stabilizer should be provided with the system.
16. 3 Year Comprehensive Warranty +2 year AMC for the system
17. Documents of International Certification to be provided
18. The vendor is expected to have full-fledged service set-up in Kolkata.
19. List of installations of the quoted model within last three years should be provided.
20. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
21. Compliance certificates should be included

D-2/ Equipment 2017-18 (5)**Name : MINIFUGE****Quantity : 2 (TWO)****Specifications**

1. Non-refrigerated, table-top, compact designed minicentrifuge.
2. Rotor with 12 no. of 1.5/2.0 ml tubes per run
3. Adaptors to be provided to run 0.2 ml tubes in place of 1.5/ 2.0 ml tubes
4. Additional rotor for two 8 place PCR strips
5. Max speed corresponds to about 14,000 RPM or more and running with extremely low level of noise;
6. Quick run setup (facility for RCF/ RPM conversion)
7. Full digital display for speed and time
8. Suitable for 220 V, 50 Hz electrical supply
9. 2 Year Comprehensive Warranty
10. List of installations of the quoted model within last three years should be provided.
11. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
12. Compliance certificates should be included

D-2/ Equipment 2017-18 (6)

Name : REFRIGERATED TABLE TOP MICROCENTRIFUGE

Quantity : 4 (FOUR)

Specifications

1. Table-top microprocessor controlled refrigerated micro centrifuge
2. CFC free Refrigeration
3. Maximum speed: 14500 to 16000 rpm
4. Minimum speed: 500 rpm or less
5. Increment: 10 rpm increments.
6. Maximum RCF: 20000 x g or more.
7. Temperature range : 0°C to ambient temperature
8. Temperature increment: $\pm 1^\circ\text{C}$ or less
9. Large LCD digital Display of preset and actual values of speed, RCF, time, temperature & running time.
10. 10 acceleration and deceleration rates with storage of up to 99 runs.
11. Pre-selection of the running time from 10 sec to 99 h 59 min and continuous/hold.
12. Stand still cooling & Pre-cooling program (Pre-cooling time from room temperature to $+ 4^\circ\text{C} < 10$ min).
13. Quick key for short runs.
14. Motor driven lid lock.
15. Active imbalance identification & cut-off.
16. Audible signal at the end of each run.
17. Fixed angle rotor $24 \times 1.5/2.0$ ml, (aerosol tight rotor) maximum speed of rotor 15000 rpm, maximum RCF 21300 x g or more.
18. Should have options for quick run, continuous run and at programmed run
19. During run, noise level should around 55dB or less
20. Adaptors for with 0.2 ml and 0.5 ml Tubes
21. Suitable for 220 V-240V, AC, single phase, 50 Hz operation.
22. 3 Years comprehensive warranty; thereafter 2 year AMC
23. Documents of International Certification to be provided
24. The vendor is expected to have full-fledged service set-up in Kolkata.
25. List of installations of the quoted model within last three years should be provided.
26. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
27. Compliance certificates should be included

D-2/ Equipment 2017-18 (7)

Name : MEDICAL REFRIGERATOR

Quantity : 2 (TWO)

Specification:

1. System should be of vertical type.
2. System should have operating temperature from +1 deg C to + 8 deg C, factory preset to + 4 deg
3. System should have internal volume of around 450-500 litres.
4. High Efficiency Cooling Compressor
5. Interior finish should be high-quality stainless steel
6. Microprocessor controlled system
7. System should have digital temperature display, resolution to within 0.1 deg. C
8. System should have audible/ visual warnings for over temperature, under temperature & power failure, door open alarm.
9. Cycle Defrost System
10. Battery back-up for control panel function during power failure .
11. Positive forced cool air circulation to maintain temperature uniformity
12. It should have full view 2 sliding doors with double layer glass window
13. Power requirement -230 VAC, 50 Hz.
14. Minimum THREE years warranty with additional TWO years annual maintenance
15. Documents of International Certification to be provided
16. The vendor is expected to have full-fledged service set-up in Kolkata.
17. List of installations of the quoted model within last three years should be provided.
18. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
19. Compliance certificates should be included.

D-2/ Equipment 2017-18 (8)

NAME : pH METER
QUANTITY : 1 (ONE)

Specifications

1. pH particulars
 - a. Range: 0 to 14.000
 - b. Resolution:- 0.1/0.01pH
 - c. Relative Accuracy:- ± 0.002
2. mV/Rel mV/ ORP particulars
 - a. Range:- ± 2000.0 mV
 - b. Resolution:- 0.1
 - c. Relative Accuracy:- ± 0.2 mV or ± 0.05 % of reading whichever is greater
 - d. EH ORP Mode- Yes
3. Temperature particulars
 - a. Range:- 0 to 100 °C
 - b. Resolution:- 0.1
 - c. Relative Accuracy- ± 0.1
4. Should be supplied with Tri-combination pH/ATC electrode
5. Should have Automatic calibration facility
6. 3 stage pH calibration with automatic recognition for USA/NIST and DIN buffers
7. Digital display of readings
8. Non-volatile memory with time and date stamp
9. Included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
10. Should be supplied with standard buffer solution (pH 4.0, 7.0, 10.0 x 50ml for each bottle)
11. Should be provided with an electrode holder/arm with smooth movement and dust cover
12. 3 Years comprehensive warranty; thereafter 2 year AMC.
13. List of installations of the quoted model within last three years should be provided.
14. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
15. Compliance certificates should be included.

D-2/ Equipment 2017-18 (9)

NAME : -80 DEG C ULTRAFREEZER

QUANTITY : 2 (TWO)

Specification

1. Type : Vertical with castors
2. Temperature range : - 50 deg C to -86 deg C
3. Volume : Approximately 500-550 liters
4. Control : Microprocessor controlled
5. Refrigeration system : Air cooled, Environment-friendly, CFC/HCFC free refrigeration system with 2 nos. 1 HP Compressors
6. Electrical system : Automatic low voltage surge protection with voltage buck/boost.
7. Interior : Stainless steel with rounded corners for easy cleaning
8. Exterior Cabinet construction : Heavy gauge, cold-rolled steel exterior construction with a powder coated paint finish that resists chipping and rust.
9. Vacuum relief port : Allows easy and quick access after door opening.
10. Inner door : Multiple (≥ 2) independent inner doors to reduce cold air loss, improve temperature recovery after door closing & to help maintain cabinet temperature during door opening.
11. Shelves : Sturdy, solid stainless steel shelves to create 5 or more interior compartments
12. Filter : It should be easy to remove air filter
Centralized Information Centre: Microprocessor controlled monitoring system ensures all controls & displays are easy to reach and read
13. Insulation : Vacuum Insulation Panels with water blown foam.
14. Communication : USB communication port should be available to download the event log and freezer settings.
15. Health Monitoring System : Microprocessor controlled monitoring system to know all controls & System status.
16. Access Port : Two 1 inch (25 mm) access port should be available as standard
17. Single hand operation : Should be Single hand operation for easy to use.
18. Pressure equalization port (PEP) : It should have Pressure equalization port (PEP) for quick re-entries after door opening.

- 19. Display : Touch Screen LCD provides access to vital freezer information, including event log, setting and user profiles, high temp alarm
- 20. On-board data logging : It should store upto 15 years of temperature and event data on on-board computer so that what is going on inside can be seen without opening the door.
- 21. Setpoint security : Should be available as standard.
- 22. Security Key Lock : Should be available as standard.
- 23. Security Pad Lock Compatible : Should be available as standard.
- 24. Door Lock : Sturdy integrated key lock with handle for single hand operation.
- 25. Data outputs : Log file through USB.
- 26. Operating mode : Two modes should be available, high performance or energy savings
- 27. Accessories : 4 nos Racks, 80 nos 2" Boxes with 100 cell dividers 1 set should be quoted optionally
- 28. Power requirements : 220-240 V AC, 50 Hz,
- 29. After-sales service : Prompt and efficient after-sales service should be available from Kolkata.

- 30. Suitable voltage stabilizer to be supplied by the vendor at the time of installation
- 31. 5 Year Comprehensive Warranty
- 32. Documents of International Certification to be provided
- 33. List of installations of the quoted model within last three years should be provided.
- 34. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
- 35. Compliance certificates should be included

D-2/ Equipment 2017-18 (10)

NAME : ULTRA PURE WATER PURIFICATION SYSTEM

QUANTITY : 2 (TWO)

Specification

1. A single integrated system which provides at least 100L/D of pure Type II (10-15 Megaohm resistivity) water and 5-15L ultrapure (Type I, 18 megaohm resistivity) water per day directly from tap water pretreatment unit, reverse osmosis, electro deionization, mixed bed ion exchange resin, TOC monitor and final membrane filter with UV lamps.
2. Microprocessor controlled for automatic operation with continuous monitoring of all critical parameters with status of current operating mode clearly indicating "production", "stand-by", "cleaning" modes.
3. Should include a suitable polyethylene storage reservoir of at least 30L with front valve for manual easy dispensing and sensor for automatic filling.
4. Should include an automated sanitizing module/program to ensure automatic inside cleaning of the equipment.
5. Clear LCD display for operation, diagnostics and water quality monitoring.
6. Pressure, temperature and resistivity sensors for automatic monitoring.
7. Should include a standalone point of delivery to provide ultra-pure water and a remote water dispenser for multiple points of delivery both delivery points with onscreen water quality display and foot pedal.
8. STAGE I: 2 stage pre-treatment system with appropriate prefilters.
9. STAGE II: Pretreatment cartridge with anti-scaling compound, conductivity meter before and after RO membrane to measure RO performance, EDI (Electro deionization module), UV Lamp 254 nm to have germicidal effect before entering the tank. The system should have facility to deliver Type II water separately.
10. **Type II water specifications**
 - a. Flow rate: 7 L/ hr., or more,
 - b. Resistivity :10 - 15 Meg Ohm.cm,
 - c. Conductivity : < 0.2 μ S/ cm (typically 0.067 to 0.10),
 - d. TOC : < 30 ppb
 - e. Bacteria : <1cfu / 1 mL

11. Type I Water specifications:

- a. Resistivity : 18.2 Meg Ohm.cm (@ 25 degree C)
- b. Conductivity : < 0.055 μ S/ cm
- c. TOC : <5 ppb
- d. Bacteria : <0.1cfu/ mL
- e. Flow Rate : 1 L / min
- f. Particulates : 0.2 μ m,
- g. RNase: <0.003 ng/mL
- h. DNase: <0.4 pg/ μ L
- i. Endotoxin: <0.001 EU/ml

12. Main Applications: Preparation of bio-reagents, culture media, for HPLC and clinical analyzers, molecular biology work.

13. Should include a maintenance kit

14. Should come with a suitable iron-removal pre-filtering unit to generate proper feed water for the system from institutional tap water.

15. 3 Year Comprehensive Warranty +2 years AMC

16. Documents of International Certification to be provided

17. List of installations of the quoted model within last three years should be provided.

18. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.

19. Compliance certificates should be included.

D-2/ Equipment 2017-18 (11)

Name : BIOLOGICAL SAFETY CABINET

Quantity : 3 (THREE)

Specifications

1. The biological safety cabinet should be of Class II, Type A2.
2. Should be certified from any Internationally reputed independent accredited agency such as EN 12469 , TUV Nord (Germany), HPA (UK) for complete safety.
3. Interior dimensions (10% variation is acceptable): Should be about 3ft working space.
4. Should come with 4 pieces stainless steel autoclavable work tray, switchable fluorescent lamp and a suitable Floor stand on castors.
5. Air flow direction: Vertical Laminar Flow & Air intake across front opening. $\approx 30\%$ of the air volume to be exhausted as sterile air back into the environment and $\approx 70\%$ of the air recirculated inside the work area.
6. Filter: Double High performance particle air filter (HEPA) or equivalent, filtering efficiency 99.95% MPPS, for 0.1-0.3 micron size.
7. DC motor technology to ensure lower levels of energy consumption and heat emission.
8. Dual blower for independent control for inflow & down flow velocities.
9. The motor must automatically adjust the airflow speed to ensure continuous safe working conditions.
10. It should have Independent supply and exhaust blowers automate balancing of downflow and inflow/exhaust velocity to ensure continuous safe working conditions.
11. Control Panel and Performance monitor: Display inflow / downflow velocity, hours of use of the HEPA filters to monitor HEPA Filter quality.
12. The UV light should be programmable to shut off automatically.
13. The cabinet noise level must be approx. 55 ± 5 dBa.
14. Should have drain pan/ exhaust filters to ensure quick trapping of contaminants.
15. In built Access ports (23 mm) 4 (2 on each side) should be available.
16. Electrical supply: 230 VAC, 50 Hz.
17. The Biosafety cabinet should come with the compatible voltage stabilizer.
18. Should include Spare UV light (One), Fluorescent light (one) and valve for combustible gas (One)
19. Should come with 5 year comprehensive warranty.
20. The vendor must have full-fledged service set-up in Kolkata.
21. List of installations of the quoted model within last three years should be provided.
22. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
23. Compliance certificates should be included

D-2/ Equipment 2017-18 (12)**Name : ICE FLAKE MACHINE****Quantity : 1 (ONE)****Specifications**

1. Ice making capacity: 70 to 100 kg/24h.
2. Ice storage capacity: 20 to 40 kg.
3. Compressor: Environment friendly (CFC free), high quality and energy efficient compressors. Should possess relevant safety certifications.
4. Refrigeration type – Air cooling, and low noise.
5. Inner Tank – Rust free stainless steel or durable plastic, good insulation, and coating to protect from microbial growth.
6. Control system and protection- Fully automatic controlling system, Ice machine stop automatically in case of ice full or there is water deficiency.
7. Machine should have display for water deficiency, overcooling protection and malfunction warning.
8. Ice machine starts automatically when power or water supply is resumed.
9. Machine should work in high ambient temperature up to 37°C.
10. Power: 220-240 V
11. Heavy duty Iron removers, guard filters and extra cartridges should be included with the machine.
12. The machine should come with a 3 year full warranty and 2 year AMC
13. The vendor must have full-fledged service set-up in Kolkata.
14. List of installations of the quoted model within last three years should be provided.
15. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.
16. Compliance certificates should be included

D-2/ Equipment 2017-18 (13)

Name : BENCH TOP DUAL LASER FLOW CYTOMETER ANALYZER

Quantity : 1 (ONE)

Specifications

1. Flow Cytometer analyzer should be compact, automated & bench top with blue laser (488 nm) & red laser (640 nm). All Lasers & their excitation & collection optics should be fixed & pre-aligned.
2. The system should be able to accommodate wide range of sample input tubes in manual loading with various sizes microcentrifuge tubes, 12x75 mm or smaller sample tubes made of polypropylene or polystyrene.
3. System should have 24 bit signal processing. There must be a provision of future upgradation of the system to upgrade with software or hardware module to interchange the fluorochrome channel within the laser installed in the system.
4. Fluidics should be a non-pressurized peristaltic pump system. The system should accommodate laboratory-grade water as sheath fluid.
5. The System should have pre-optimized detector settings. The Flow cytometer should have the capability of user-changeable optical filters. System should have Fluorescence Sensitivity at least MESF FITC <75; PE <50
6. The system should have data acquisition speed at least up to 8,000 -10,000 events per sec. The system should be able to detect minimum particle size of 0.5 micron and capable to aspirate samples with volumes of minimum 50ul.
7. System should have an upgradable option module for auto-sampling from 96 & 48 well plates , 12 x 75-mm tubes can also be accommodated using the supplied 24-tube rack.
8. System should be able to perform absolute counting without the need of adding beads to the samples. Flow cytometer system should be based on hydrodynamic focusing with laminar flow within the Flow Cell (Quartz).

9. System should come with suitable software for acquisition, data analysis for all application. Should offer both online & offline compensation during data analysis. System should be compatible for bead array application.
10. System should come with 2 kVA online UPS.

10. Data management system : All in One PC workstation with at least Intel® i7-4790S 3.2 GHz Qual Core™, 8 MB, with HD4600 graphics ,500 GB hard drive or more, DVD / CD ROM R/W Combo Drive, 23 “ LCD monitor.

11. The company should have at least 20 installation s of the quoted flow cytometer model in India. Complete details of services and application support should be given along with onsite installation and training. Also, company should have facility for technical support, troubleshooting & training on the same system.

12. System must be offered with 5 years on site comprehensive warranty.

13. Documents of International Certification to be provided.

14. The vendor is expected to have full-fledged service set-up in Kolkata.

15. List of installations of the quoted model within last three years should be provided.

16. Performance Certificates from at least three users of government / government-aided research / academic institutes along with the installation certificates of the quoted model should be provided.

17. Compliance certificates should be included

Tender Evaluation

Tender evaluation will be done in two stages

(1) Technical bid & (2) Price bid

Each bid should be submitted in separate sealed envelopes super scribed as “Technical Bid” & “Price bid”. All these 2 envelopes should be put in one another envelop marked as original bid & sealed with lakh (Sealing wax)

Technical Bid

The firm should submit the technical bid in a sealed cover separately super scribing the word “Technical Bid” mentioning tender number, Name of the item, Date of opening & Name of the Tenderer.

Technical bid should be contain

1. Only the name of items with specification makes /brands of the items.
2. Literature & Catalogues in support of items quoted must be enclosed.
3. Current authorization letter. All bidder must get a valid letter of authorization from the principal supplier or manufacturer.
4. Attested photocopy of latest valid License for stockist & distributorship as applicable should be provided.

Price Bid

1. Should be submitted in a separate sealed envelope Super scribing the word “Price bid” mentioning tender number, name of the tender, due date of opening & the name of the tender.
2. The rates quoted should be inclusive of Excise Duty, GST and other incidental charges. The rates of GST (State & Central) chargeable may however, be given separately. No GST or other charges will be payable if not mentioned in the tender or not applicable under the relevant laws. For imported items the quoted rate should be on FOB basis. Freight Charges and Insurance may be mentioned separately.
3. Bidder will quote firm & competitive rates. No condition like discount in price free goods / incentives will not be accepted towards finalization of the tenders. Rates should be accordingly to a Unit.
4. While quoting rates, serial no of the tender must be indicate and rates should be quoted competitive.
5. Commitment of efficient after sales service from the bidder and that to be locally available for prompt action.

Terms and Conditions

1. Soft copy in the form of CD for Technical & price bid separately (may be supplied) along with the hard copy.
2. The tender documents should be typed. Any cutting / overwriting may be signed by the tenderer otherwise the rates in r/o that particular item may not be considered.

3. Each and every page of the tender must be numbered and signed by the tenderer along with the seal of the firm.
4. Covering letter should clearly indicate the list of enclosures.
5. **Security deposit :**
 - A) The tenderer should submit Bank Guarantee from a **Nationalized Bank** of 10% of the cost of the equipment at the time of delivery of the Instrument.
 - B) Security deposit/EMD is liable to be forfeited if the tenderer fails to supply the store and fails to provide comprehensive warranty for equipment's, security deposit /EMD are liable to be forfeited if the tenderer with draws or awards or impairs or derogates the bid in any respect.
6. EMD shall be released to un successful bidder after completion of tender process, subject to compliance to all other terms & conditions of Tender.
7. I) The bidder should clearly indicate the guarantee / warranty status of each item i.e. Main equipment, standard accessories, optional etc. (Consumables / non – consumable items etc.)
 - II) **Current rate list of all replacements must be submitted in the price bid**
8. **Guarantee/Warranty** – 2 years full warranty and 3 years AMC to be included with the price.
9. **THE RATES QUOTED WILL BE TAKEN AS FIRM AND FINAL.**
10. The tenderer are bound to supply the store during the validity of tender at the approved rate.
11. The firms may be asked to deliver the goods in instalment / fixed interval against the order of the full year. In case firm fails to deliver the particular instalments at its scheduled time, this office reserves the right to procure the item in the open market and the excess expenditure incurred will have to borne by the company.

GENERAL TERMS AND CONDITIONS OF THE SUPPLY ORDERS

1. The delivery of the goods has to be made to the concerned store as mentioned in supply order , strictly in accordance with the supply order & with the approved specification.
2. The supplies have to be made within 30 days from the date of despatch of the supply order failing which penalty will be imposed as per rule or cancellation of order and the Earnest money will be forfeited . However in exceptional circumstances and on written request the extension of the date of supply may be considered by the discretion of Director. For imported equipments / items the delivery period shall be up to 90 days. In case the items are urgently required the firms will have to supply the items on urgent basis.
3. **Penalty clause:**
 - A) FOR DELAYED SUPPLY: A penalty of 2% of the value of order per week will be imposed subject to maximum, of 10% of the value of order.
 - B) FOR NON SUPPLY: EMD of the firm will be forfeited and necessary action will be initiated.
4. Supplier must ensure that challan is submitted in the concerned store along with the supplies. The number and date of delivery challan must be indicated in the bill.
5. Triplicate bills duly pre receipted on appropriate revenue stamp affixed to be submitted in the name of the Director in respective store.
6. The bill should be in printed form having printed bill number, GST/PAN Number as well as D.L. No (whichever applicable)
7. All rejected stores shall be at the risk of the supplier and must be removed immediately.

8. Guarantee/ Warranty Certificate must be provided at the time of supply.
9. In case it is a computer – generated bill it must have the seal of the firm affixed on it.

Payment

Payment will be made only after the receipt of the items in good condition as per specification against the order. In case of equipment, payment will be made after satisfactory inspection, demonstration and functioning, No advance payment will be made.

EXCLUSIVE RIGHT OF DIRECTOR

Director, ICMR-NICED, Kolkata has the full and exclusive right to accept or reject any or all the tenders without assigning any reasons whatsoever. No enquires, verbal or written shall be entertained in respect of acceptance / rejection of the tender.

Administrative Officer

for Director