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TENDER NOTICE

Separate tender for each item duly sealed, are invited for supply, installation & commissioning of the following equipments: -

Sr. No.	Enquiry No.	Description	Qty.	Bidding Method	Last date of receipt & opening of tender
1.	PUR/2009-10/IND10535	Ultra Deep Freezer (-70 Degree Cen.)	5	Two Bid (Technical & Commercial)	24.9.2009 & 25.9.2009
2.	PUR/2009-10/IND10537	UV-VIS Peltier Assembly	2	-do-	-do-
3	Pur/2009-10/IND10538	Ice Machine	2	-do-	-do-
4	Pur/2009-10/IND10539	High Volume Ref. Centrifuge	2	-do-	-do-
5	Pur/2009-10/IND10540	Gel Documentation System	1	Single Bid	-do-

Prominently mention the Enquiry No. on your quote.

Director IMTECH reserves the right to accept or reject any offer, without assigning any reason thereof.

Technical bids of above equipments will be opened in Purchase Section at 11.00 hrs on due date, as mentioned above, in the presence of representatives of tenderers, if any.

(KK BHARAT)
Stores & Purchase Officer

TERMS & CONDITIONS

Commercial

- 1) Cost** : Mention the price of the material in the FOB/FCA including inland freight value only. Please note that being a Govt. Organization we cannot make Advance Payment.
- 2) Insurance** : Consignment should be insured through National Insurance Company of India or its associate in your country.
- 3) Freight** : The dispatch of the material should be through Air India preferably.
- 4) Agency Commission** : Mention the percentage of Indian Agency Commission payable to commission Indian Agent in INR and also mention the name of your authorized Indian Agent/Representative, Pro-forma invoice without mentioning Indian Agency Commission will not be considered at our end.
- 5) Validity** : The validity of your pro forma invoice should be less than 180 days from the date of opening.
- 6) Warranty** : Mention the warranty period of equipment after satisfactory installation. 10% Bank Guarantee is to be submitted by you/your Agent for the Equipments costing Rs.25 Lac & above

General Condition

- 1) Zerox copies of latest price list applicable list may be enclosed applicable in Indian Market.
- 2) Ensure that quoted price will not be higher to any other customers in India to whom this particular item have been sold particularly to govt. of India Organization.
- 3) Sent a certificate that the equipment is of latest technology & will not be obsolete within 5 years.
- 4) Ensure that all essential spares parts of this equipment will available in India with your Indian Agent as and when required.
- 5) Provide the list of the users in India of the same equipment along with their contact / email address.
- 6) Enclose a copy of agreement with your authorized Indian Agent.

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SPECIFICATIONS

(1.) PUR/2009-10/IND10535 - Ultra Deep Freezer (-70 deg. Cen.)

1. CFC-free refrigerants
2. Stainless Steel Inner chamber
3. Storage Capacity - 550-600 liters
4. 5 Compartments with 4 adjustable shelves
5. Cabinet insulation should be at least 70 mm (PUF)
6. Lowest attainable temperature of -80°C at the ambient temperature range of 28-32°C.
7. Membrane Keypad eye level control panel
8. Two compressors each with power efficient (low power consumption) capacity maximum up to 1hp for each
9. Battery back up: Activates alarms and display during power outages.
10. Time delay and temperature delay mode for second compressor.
11. High low cut protection facility for both compressors.
12. Microprocessor based functionality
13. A minimum of 5 year warranty for compressor and refrigerant.
14. Alarm for Power failure, high low temperature, and battery low, filter clean and fault analysis.
15. Alarm and temperature should be adjusted within 1 degree increments
16. Inbuilt Diagnostic system
17. On off switch and on off alarm should be lockable
18. Password based Security for set points
19. Two years comprehensive warrantee with one year additional service warranty
20. CE and UL Certified

Optional:

1. Racks and boxes

General conditions:

The supplier must supply following along with quotation:

- a. Compliance statement in tabular form giving details as per specifications given in the tender document
- b. Literature in support of compliance statement
- c. Details of AMC charges after warranty period
- d. List and price of minimum recommended spares for 5 years.
- e. List of users

(2) PUR/2009-10/IND10537 - PC based UV -Vis Spectrophotometer with compatible Temperature Programmer

The Double beam UV-Vis Spectrophotometer fully controlled by external PC through Windows' based software with following specifications :

- Should have all quartz coated mirrors, lens free system to reduce chromatic aberrations holographic grating with 1000 Lines/mm or better.
- Wavelength range : 190 -1100 nm or better
- Light source: Deuterium lamp/halogen lamp (auto switching)

- Spectral bandwidth : Variable (0.5 to 2.0 nm or more)
- Stray light should be less than 0.01%T or better
- Wavelength accuracy should be +/- 0.1 nm or better.
- Photometric accuracy should be +/- 0.001 A or better
- Photometric Reproducibility 0.001 A or better
- Photometric Stability 0.00015 A/h or better
- Photometric noise: 0.0005 A or better
- Photometric range: -3 or less to +3 or more Abs (recording range)
- Baseline Flatness at 1 nm slitwidth should be +/- 0.001 A or better
- Standard Cell Holder one for reference & other for sample

Temperature programmer

Peltier based temperature programmer for DNA T_m and base composition analysis with at least one sample and one reference position with stirring facility. Temperature control over 0°C to 100°C for sample and reference position. Temperature probe must be quoted for measuring temperature inside cuvette during melting.

Water circulator (imported and branded) to cool down the Peltier system for electronic temperature control, continuously settable from 20 to 60°C or better.

Note : Temperature programmer & Water Circulator should be supplied by principal manufacturer only alongwith main unit, will not be accepted from Locally.

- Windows based software should be capable of performing following functions: Fully integrated Scan, Timedrive, Wavelength Program data collection modes included with real-time spectral display and live instrument and accessory status bar.

Computer system: Latest PC with 60 GB HDD, 2 GB RAM, Atleast two serial ports, Original Windows XP software, 17" TFT Monitor with Laserjet printer (Black & white).

UPS: 2KVA "On- line UPS (APC or Liebert) for a minimum of 30 minutes electricity back-up in case of power failure for spectrophotometer as well as computer system.

Optional :

- 1) Automatic linear cell changer for eight samples and one reference.
- 2) **Consumables** : One set of source lamps (1 deuterium lamp and 1 halogen lamp). Additional sets of cuvettes to be quoted as mentioned above.
- 3) Flow cell (~ 100ul) with teflon tubing
- 4) 10mm quartz standard Cell with Holder, approx 1 ml volume
- 5) 10mm quartz standard Cell with Holder, approx 700 ul
- 6) 10mm quartz standard Cell with Holder, approx 50 ul

(3) PUR/2009-10/IND10538 - Ice Flaking Machine

Should produce approx. 150 Kg granular ice in 24 hours

Storage bin capacity: 100 kg

Storage bin should be insulated by PU-foam

Should be equipped with additional hygiene with automatic drain

CFC-free refrigerant

Condenser should be air-cooled

Inside and Outside cabinet should be made of stainless steel 304

Automatic switch-off when the ice bin is full and automatic restart

Automatic switch-off in case of water shortage and automatic restart upon water resumption

Overload Protection

230 V 50 Hz Power Input

2 years warranty and Spares availability Guarantee for atleast 10 years from the principal

(4) PUR/2009-10/IND10539 – High Volume Ref. Centrifuge:

1. Max. speed : 12K-15K rpm, Max RCF : 22-25K x g
2. Max capacity : 2.5-3 Liter
3. Temperature range : -10 to 40°C
4. Maintenance-free brushless drive motor
5. Digital/LCD display
6. Programmable different curves of acceleration and deceleration
7. CFC free refrigeration system
8. Built in/ Automatic rotor identification system.
9. Motorized lid lock system
10. Voltage : 220-240V/50-60 Hz.
11. Angle Rotor : 4- 6 x 500 ml, 16000 x g or more
12. Angle Rotor : 4-6 x 50 ml , 20000 x g or more
13. Two year comprehensive warrantee

General conditions:

The supplier must supply following along with quotation:

- a. Compliance statement in tabular form giving details as per specifications given in the tender document
- b. Literature in support of compliance statement
- c. Details of AMC charges after warranty period
- d. List of users.

Optional :

1. Other suitable rotors and adapters to be used
2. Service manual

(5) PUR/2009-10/IND10540 - Gel Documentation System

An integrated system to document and analyze DNA, RNA and protein gels, autoradiographs, blots, TLC plates and colony plates.

Specifications should meet or exceed the following:

1. Camera:

- 12-bit scientific grade, CCD Camera
- Resolution: at least 1.4 megapixel
- Motorized zoom lens
- Sensitivity: At least 0.1 ng of DNA per band (ethidium bromide stained).
- Camera sensor make/manufacturer & model number must be mentioned.

2. Light shielded viewing cabinet:

- Integrated mid-wave (302/310 nm) UV, and white light transilluminators for even illumination. Imaging area: 20 x 20 cm or larger.
- Integrated and uniform epi-White, epi-UV(365) and epi Blue light illumination
- Computer controlled motorized filter wheel to hold at least 5 filters
- Filter sets for capturing images of DNA/RNA gels stained with ethidium-bromide / SYBR Green/Gold, Coomassie blue-stained protein gels, and Ponceau-S stained protein blots.

3. Image capture:

- Operation of motorized zoom lens, lens-focus, aperture, and image size through computer software obviating the need for touching the camera/lens assembly.
- Fast image capture by single button click to automatically control & adjust camera zoom, focus and iris as well as exposure time simultaneously OR should be capable of automatic generation of series of images for user to chose the best image (movie mode).
- Light source should automatically switch off after image acquisition

4. Software for Image analysis

Software for 1 D multilane densitometry; should be capable of automatic lane and band detection, background subtraction, and band matching to get accurate molecular weight and abundance data. Should also be capable of 2D spot densitometry, slot/dot blot analysis and colony counting.

4. Branded computer of following minimum specifications:

Computer with Intel Pentium dual core processor, 160GB HDD, 2GB RAM, DVD-RW/CD-RW Combo Drive, CD-Read/Write, 17" TFT Monitor, Keyboard, Optical Mouse, network card and licensed Windows operating system.

5. Off-line UPS (Liebert or APC), for 15 min backup of entire system.

6. Laser printer to provide black & white prints at a resolution of 1200 x 1200 dpi or better.

7. Warranty: One year

Optionals:

1. Filter sets for various dyes. Brochures mentioning the quoted filters and their applications must be enclosed.
2. Replacement 310 nm UV light tubes
3. Replacement 365 nm UV light tubes
4. Replacement white light tubes
5. AMC charges for 5 years

Very important

- Compliance/deviation statement must be provided comparing the specifications of the quoted model(s) to the required specifications.
- Specifications mentioned in the bid should be supported by printed technical literature; failure in this regard may result in rejection of bid.
- List of government labs using the bid models along with telephone numbers, e-mail addresses, and fax numbers of users should be provided.
- The bidder must have factory trained application support specialist for demonstration of instrument and software.