



इमटैक
IMTECH

सूक्ष्मजीव प्रौद्योगिकी संस्थान
सेक्टर 39-ए, चण्डीगढ़, 160 036 (भारत)

INSTITUTE OF MICROBIAL TECHNOLOGY

(A CONSTITUENT ESTABLISHMENT OF CSIR)
Sector 39-A, Chandigarh-160 036 (INDIA)

Director, IMTECH invites tenders from reputed Indian/foreign manufacturers and authorized dealers for the supply of the following item(s):

Sr.No.	Tender/Enquiry No.	Name of Equipment	Qty	Budget Head	Mode of Bidding
1	2010-11/IND16231	-80 C Deep Freezer	4	GAP0010	Two Bid
2	2010-11/IND16276	Gas Chromatography	1	GAP0010	Two Bid
3	2010-11/IND16374	Chemiluminescence Documentation System	1	GAP0010	Two Bid

The terms & conditions with technical specifications are on subsequent pages.

Last date of receipt of complete tenders is **15.3.2011 up to 5.30 PM. (IST)**.

The date of opening of technical bids is **16.3.2011 at 11.30 AM. (IST)** onwards.

The Director, IMTECH reserves right to accept or reject full or part of any tender without assigning any reasons thereof.

Stores & Purchase Officer

TERMS & CONDITIONS

Commercial

- **Cost :** Mention the price of the material in the FOB/FCA/CIF including inland freight value only. Please note that being a Govt. Organization we cannot make Advance Payment.
- **Insurance :** Consignment should be insured through National Insurance Company of India or its associate in your country.
- **Dispatch :** The dispatch of the material should be through Air India preferably in case of imported items.
- **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.
- **Validity :** The validity of your pro forma invoice should not be less than 180 days from the date of opening.
- **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
- **Taxes:** For Indigenous products, please quote Sales Tax/VAT/Service Tax/Other levies etc., if any, clearly in your quotation. Offer without mentioning the taxes clearly will be summarily rejected. The Institute is exempted from Custom/Excise Duty payment under Notification 51/96 of customs.
- The offers without mentioning of Packing, Forwarding, Freight Transportation, Insurance Charges etc. shall be summarily rejected.

General Condition

- Zerox copies of latest price list applicable list may be enclosed applicable in Indian Market.
- 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.
- Sent a certificate that the equipment is of latest technology & will not be obsolete within 5 years.
- Ensure that all essential spares parts of this equipment will available in India with your Indian Agent as and when required.
- Provide the list of the users in India of the same equipment along with their contact / email address.
- Enclose a copy of agreement with your authorized Indian Agent.

FAX : 0091-172-2690632 email : purchase@imtech.res.in

TEL : 0091-0172-6665363 website : www.imtech.res.in

Specifications for Ultra Deep Freezer(-80) (2010-11/IND16231)

1. CFC-free refrigerants
2. Inner chamber should be made of Stainless Steel.
3. Internal Capacity should be in the range of 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 30-32°C.
7. Membrane Keypad eye level control panel
8. Two compressors each with power efficient (low power consumption) capacity up to maximum of 3/4 hp.
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. Alarm for Power failure, high low temperature, and low battery, filter clean and fault analysis.
14. Alarm and temperature should be adjusted within 1 degree increments
15. Inbuilt Diagnostic system
16. On off switch and on off alarm should be lockable
17. Password for set point security
18. Access Port should be there
19. Two years comprehensive warrantee with one year additional service
20. Three shelves loaded with racks, boxes and divider should be supplied.
21. CE and UL Certified
22. Minimum two warranty on complete system and five year warranty on compressor and refrigerant.

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.
- f. 3 performance certificates should be provided.

Fully Functional PC based Gas Chromatograph (2010-11/IND16276)

Column Oven:

Fast heat-up ($\geq 100^{\circ}\text{C}/\text{min}$) column oven. Temp. operating range : app. 5°C above ambient to 450°C with multiple temperature programming facility with ramps

Injection Port – 1 No.

Split/Split less Injector port. Temperature setting should be in the range 50°C to 400°C in 1°C increments or better.

Electronic Pressure / Flow control

The digital pressure and flow controller must be able to be independently controlled and program pressures and flows in up to two independent carrier gas lines.

Detectors:

1) Flame Ionization Detector (FID): with auto-flame out detection and flame re-ignition feature.

- Linear dynamic range : $\geq 10^6$
- Detectivity : $3 \times 10^{-12} \text{gC}/\text{sec}$ or better
- Operating temperature limits : 400°C or better

2) TCD Detector

- Temperature Range : up to 400°C
- Thermal conductivity Detector (Linear Range: $\geq 10^4$)

Auto sampler:

Should be fully automated for sample preparation and introduction with 80 or more sample positions.

Workstation:

GC should be fully functional with chromatography data system (window based). Software should be user friendly easy to use graphical interface for data handling with feature like data analysis, report publisher etc.

Computer System: State of art computer system (Branded only) Pentium – Dual core 2 processor, 17" TFT monitor, 120 x 2 GB HDDs, DVD combo drive, 1024 MB RAM, USB Ports, Laserjet printer.

Upgradeability :

1. GC must be having MS detector upgradeability

Capillary Columns: app. 30 mtr x 0.25 mm ID x 0.25 μ film thickness

1. Drug screening
2. Volatile organic compounds/metabolites

3. Toxicology
4. Hydrocarbons/nitroaromatics
5. Biodiesel and natural gas (methane)

Spares/Consumables :

- a) Injection Port Septa (200 Nos.)
- b) Glass Insert for Split & Splitless (4 Each)
- c) Graphite Ferrule 0.5 mm & 0.8mm (10 each)
- d) FID Jet (02 Nos)
- e) Microliter Syringes 1, 5 & 10 ul (4 each)

All other accessories like Gas cylinders with dual stage regulators for Hydrogen, Nitrogen & Zero Air, gas purification system for Hydrogen, Nitrogen & Zero Air to be quoted with the system to make the system fully operational.

Optional Accessories:

1) Electron Capture Detector (ECD):

- Linear dynamic range : $\geq 10^4$
- Detectivity : 50 fg/s or better
- Temperature limits : 400°C or better

2) Nitrogen Phosphorus Detector (NPD) :

- Temperature Range : up to 450°C
- Detectivity : 200 fg P,N//s or better (standard sample)
- Linear dynamic range : $\geq 10^3$

3) Refractive index detector

Specifications for Chemiluminescence Documentation System (2010-11/IND16374)

1. System capable of performing colorimetric, fluorescence and western blot imaging
2. 16-bit Scientific Grade CCD Camera
3. At least 8.0 Megapixel Resolution
4. Camera cooling temperature -25°C to - 45°C
5. Motorized filter wheel with at least 3 positions
6. f/1.4 lens
7. Transilluminated UV and white light sources
8. Epi white light
9. UV/IR Interference Filter
10. Stand-alone software for acquisition, enhancement, editing, annotation & analysis including features like 1-D multiline densitometry, 2-D spot densitometry, Dot Blot Analysis etc.
11. Two copies additional stand-alone copies of the analysis software to be used in other computers for data analysis by the users.
12. Software for analysis of Chemiluminescence data

13. Selection of all instrument settings may be from integrated computer LCD touch

screen control OR external computer operated.

14. Computer (Intel Pentium Dual Core Processor, 320GB HDD, 3 GB RAM, DVD Writer, 19" TFT Color Monitor, Keyboard, Mouse) with genuine windows operating system.
15. Laser Jet P2015Dn printer
16. Appropriate table and chair (Godrej make).
17. 2 years Comprehensive warranty.
18. On site demonstration of the system for all the applications mentioned in S.No.1

General conditions:

1. The vendor should provide point-wise compliance statement in tabular form as given in tender document, clearly mentioning the compliance/deviation (if any).
2. All relevant literature in support of compliance statement should be provided.
3. Point-wise compliance must be shown on the relevant literature with green/yellow highlighter.
4. Details of Comprehensive and normal AMC Charges for 5 years after warranty period should be quoted.
5. List of users in other organizations, and certificate of performances.
6. Service manual