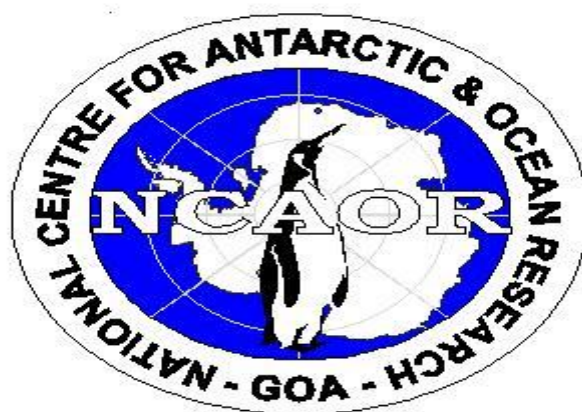


TENDER DOCUMENT FOR



SUPPLY, INSTALLATION & COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH

(Ministry of Earth Sciences, Govt. Of India)

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NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH
 (Ministry of Earth Sciences, Govt. Of India),
 HEADLAND SADA, VASCO-DA-GAMA,
 GOA - 403 804

TENDER NO. NCAOR/LAB-2184/PT-32
TENDER FOR SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE
GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM.

1.	SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM Specifications Quantity	As per Annexure-I 01 No.
2.	General Terms and Conditions	As per Annexure II
3.	Cost of Tender Documents (In Person)	US \$ 1900.00 ` 2000.00
4.	Cost of Tender Documents (By Post)	US \$ 50.00 ` 2050.00
5.	EMD	<p>Tender documents can be downloaded by tenderers from NCAOR website. In case a tenderer is using the documents and forms downloaded from the website, the cost of tender documents shall be sent in the form of Bank Draft in a separate envelope along with the tender.</p> <p>A) Foreign Bidders shall submit EMD along with their tender, in the form of a bank guarantee only for a sum of US \$1900 (US\$ One Thousand Nine Hundred only)</p> <p>B) Indian Bidders shall submit EMD along with their tender, either by DD drawn in favor of NCAOR, for a sum of ` 1, 00,000/-(Rupees One Lakh only) payable at Vasco-da-Gama only.</p> <p style="text-align: center;">Or</p> <p>In the form of a bank guarantee for a sum of ` 1,00,000/-(Rupees One Lakh only)</p>
6.	Last Date and time for issue of tender documents	MONDAY 13.10.2014 1600Hrs (IST)
7.	Last Date and time for submission of sealed quotations	TUESDAY 14.10.2014 1700Hrs (IST)
8.	Date and time of tender opening	WEDNESDAY 15.10.2014 1000Hrs (IST)

**TECHNICAL SPECIFICATIONS FOR SUPPLY, INSTALLATION AND COMMISSIONING OF
TRIPLE QUADRUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS)
SYSTEM**

Requirement

Triple quadrupole Gas Chromatograph mass spectrometer system (Top-of-the-line model) with windows base software is needed for qualitative and quantitative analysis of liquid/Gas/Solid samples for wide range of R&D application mainly Persistent Organic Pollutants, Hydrocarbons including PAH, Alcohols, Fatty Acids, Heterocyclic Compounds (including PCB's, pesticides etc.) and VOC's in water, air and soil/sediments samples up to 1 pg level.

Gas Chromatograph should have self diagnostic functions, built in keyboard and screen to control various parameters, apart from software controlling system through PC.

Compliance of system for measurement techniques

It must include a Gas Chromatograph with two injection ports, FID detector, and Triple Quadrupole mass spectrometer with DIP, EI, PCI & NCI, with liquid Auto Injector/Sampler and PC workstation with licensed software. System should have a facility to run MS and FID with single sample injection with variable split ratio for feed to MSD and FID.

GAS CHROMATOGRAPHY

Injector

Split/Split less Injectors:

- Split/split less injectors with temperature range up to 400°C or higher and all carrier gases to be automatically controlled from software (AFC/EPC/PPC).
- Fittings suitable for columns of 0.1mmID to 0.53mmID
- Working temperature range:40 to 400°C or higher with 1°C increment
- Pressure setting up to 900Kpa or more for all type of column
- At least five step flow/pressure programming
- Split ratio setting:-1 -5000 minimum and total flow up to 1000ml/min

On-Column and Programmable Temperature Vaporizer Injector:

- OCI with PTV injectors with temperature range up to 400°C or higher and all carrier gases to be automatically controlled from software (AFC/EPC/PPC)
- Working temperature range:40 to 400°C or higher with 1°C increment
- Pressure setting up to 900Kpa or more for all type of column
- Heating rate: 40 to 400°C in 5 minutes or less. Maximum heating rate 200°C or more.
- Cooling rate: 400 to 40°C in 10 minutes or less.

Column Oven:

- Working temperature range: ambient plus 5°C to 400°C or higher with increment and accuracy+/-0.5°C or better
- Column overheat protection
- Ramped heating program, 10 or more ramp and dwell times/Multi-step temperature programming
- Oven capacity to accommodate dual capillary column
- Should be equipped with fast cooling system so as to reduce cooling time of 400 to 40°C in less than 10 minutes and heating time 40 to 400°C in less than 10 minutes.

FID (Flame Ionization Detector):

System should have FID detector in addition to MS detector having details as mentioned below:

- Temperature range up to 400°C or above
- Minimum Detection quantity : 2 pg C/s (Dodecane) or lesser
- Dynamic range: 10⁷ or better

Chromatographic performance:

- Retention time repeatability <0.008% or <0.0008min
- Area repeatability ≤1%RSD

Columns:

- Fused silica column (30 m x 0.25 mm ID, 0.25μ) cross linked 5% phenyl methyl silicon equivalent to DB-5-MS-4Nos.
- Fused silica column (60 m x 0.25 mm ID, 0.25μ) cross linked 5% phenyl methyl silicon equivalent to DB-5-MS-4Nos
- Fused silica column (100 m x 0.25 mm ID, 0.25μ) Cyanopropyl Polysiloxane equivalent to DB-23-MS-2Nos.

MS-MS Detector**Triple-Quadrupole Mass Analyzer:**

- Mass range ≤10-1000 or more (da or amu or u)
- Mass Analyzer-Metal Quadrupole mass filter with pre rods
- Mass Resolution-minimum 0.7 amu or better
- GC transfer line (interface) temperature Settable up to 350°C
- Scan rate-11000 amu/second or more
- Scan rate fully variable
- MRM speed (transitions/sec) 500 MRM/Sec or more
- Simultaneous analysis of SRM or MRM with full SCAN/SIM and SCAN in one injection
- Scan Modes: Precursor, Product, Neutral Loss, SIM, MRM

Ion Source.

- Ionization mode-EI, PCI, NCI
- Electron Energy: 10-150 eV (user selectable)
- Temperature settable from 150°C to 300°C
- Filament: Dual (Automatic switching) with Emission Current: 5 to 230 μA.

Detector:

- Sealed long-life electron multiplier
- Lens for noise reduction and 10kv Conversion dynode
- Must have wide dynamic range

Vacuum System.

- System should have high capacity differential pumped vacuum system
- Pump Air-cooled turbo molecular of 250 L/sec or more with separate pumping for ion source and quadruple for homogenous vacuum backed up by rotary pump of at least 30ltr/min
- Vacuum gauge provided as Standard for wide-range of vacuum monitoring.
- Vacuum control should be fully automatic to make ON/OFF of each pump in startup & shut down, opening & closing of valve.

Sensitivity and capability:

- EI full scan sensitivity 1.0pg OFN ≥ 850:1 & Guaranteed Installation Specs for MRM sensitivity 100fg OFN, S/N ≥ 5000: 1 or more.

- PCI MRM S/N 1 u1 of 100fg Benzophenone (Bzp) m/z 193 -> 110 should produce S/N ratio of 150: 1 or more
- NCI scan of 1 pg OFN m/z 272 should produce S/N ratio of 4000: 1 or more

Direct Insertion Probe:

- System should have facility to inject solid & liquid samples directly in to MS bypassing GC for analysis of pure high molecular weight samples without venting vacuum and without dismantling GC & MS apart or disturbing GC set up or passing the samples through GC column.
- Independent heating up to 500°C & 5 steps temperature program levels.

Detector Splitting System with independent auto flow control:

- System should have a facility to split the sample at the end of the column in a variable ratio decided by the user to FID and MS-MS simultaneously in one injection.

LIQUID AUTO INJECTOR/SAMPLER:

- System should be having auto sampler with capacity of minimum 100 vial tray or more for automated operation of liquid samples.

DYNAMIC HEAD SPACE SAMPLER WITH TRAP

- Low level detection up to ppb and sub ppb level of VOC
- Dynamic head space with direct interface with GC,
- Should have 30 vial carousel or more, 10 vial incubator with vial mixer/shaker
- Vial temperature minimum 150°C, flow control, PC controlled
- Should allow headspace injection

AIR SAMPLE COLLECTOR

- For air sampling at field, sequential pump with more than 20 ATD sample tubes should be provided, with diffusion limiting caps.
- Should be capable to operate on 12V battery and or 240 V AC.
- It should also be supplied with carbopack and corbosieve tubes (10 numbers each) sample tubes and monitoring pump with all accessories to make to completely functional set at field
- Additionally it should be supplied with five numbers set of pocket series pump (portable small, lightweight and compact) for collection of VOC'S with 10 tubes.

THERMAL DESORPTION SYSTEM

- Automated system with > 40 TD tube with essential sampling accessories
- Pump with facility to flow 25 ml/minute to 100 ml/minute at 80°C to 300°C for sampling offsite
- Should be provided with 10 tubes each for VOC estimation as per EPA method
- System should be compatible with entire TD application range i.e C₂ to nC₄₀ hydrocarbon plus labile compounds
- It should have controlled cooled packed cold trap capable of cooling sub-zero temperature as per standard EPA methods

VENT-FREE GC/MS ADAPTER

- Should support GC/MS
- Maximum temperature: 400°C or better
- Column: Ultra ALLOY™ (id 0.25mm) / Fused Silica (id 0.25/0.32mm)

GAS CYLINDERS WITH PURIFICATION PANEL

- Helium, hydrogen, nitrogen, zero air (two sets each), Isobutene with gas purification panel for all gases with required purification
- CI reagent gas cylinders-(methane, ammonia and isobutene-one each)

Regulators (from Reputed International Manufacturers)

- Two stage, metal diaphragm, S.S. body regulators for all gas cylinders

DATA SYSTEM**GCMS-MS software:**

It should perform quantitative and qualitative analysis, Full Instrument Control with data collection & processing, user friendly in operation. Should have in built in facility for automatic retention time adjustment function, automatic method development for SCAN and SIM, System suitability, simultaneous measurement of SIM & SCAN, automatic tuning, detailed library search function having similarity search + Similarity search with retention index + index search.

Mass Spectral Database: Latest version of NIST and Pesticide libraries.

MRM Database: The database should be simple & easy to use, can be added to the GC-MS/MS method.

- Change between EI, PCI, NCI by user without any hassle
- Software must be capable of fully automated peak centering in all modes of operation and preferably of peak de-convolution of peaks
- Parameters such as stability and linearity must be monitored and determined automatically during acquisition of samples

Upgradation of software as and when available from company should be provided free of cost.

Computer System

Minimum: Processor 3.4GHz: 8MB: 4C, 8GB Dual Channel DDR3 SDRAM Memory, 1TB SATA 3.0Gb/s Hard Drive, 16X DVD+/-RW drive, 20" Monitor with FHD LED, USB Optical Mouse, USB keyboard, 500 GB hard drive, Genuine windows 7/8-64 bit professional.

Printer: Color laser printer with minimum 600 dpi resolution

AFTER SALES SUPPORT

Vendor must have service organization in India, for which detailed documentation is required, including full disclosure of names, locations, training, and years of experience. The company must offer regularly scheduled, formal user training courses with published syllabi and supported by formal printed documentation. Response for service and troubleshooting should be within seven days.

DEMONSTRATION DURING INSTALLATION

Initial training and demonstration on supplied and commissioned instrument and accessories should also be provided to group of Scientists at NCAOR-Lab

- The quality of analyses, leading to confidence and defensible results. *Full automation from sample introduction to reporting*
- High precision measurements for small sample sizes, or gases
- All consumables and standards required for demonstration will be provided by the vendor
- Comprehensive set of automated diagnostics
- Low noise design

INSTALLATION & TRAINING

Complete systems and its peripherals should be installed and commissioned at NCAOR. After successful installation selected scientific/technical personnel from NCAOR should be provided with hands-on and in-depth training on the operation and maintenance of the system as well as specific application training by factory engineers and application specialists at factory/site for not less than 10 days.

SPARES AND CONSUMABLES

Supplier should provide commitment to provide all parts of the instrument and ancillary supplied systems for ten years from the date of installation.

- The offer should include all spare/accessories/consumables/standards for the entire system and its peripherals which are not covered in the comprehensive warranty, for ensuring trouble free performance of the system for the three years. The supplier will be solely responsible for any additional requirements for spares/consumables within this period.
- Full service manuals with circuit diagrams and circuit descriptions should be supplied, along with diagnostic tools including interface cards and software, plus any specialized mechanical tools required for instrument servicing/repair.
- For each module the quotations should include an indication of all consumables required per full batch of samples.

WARRANTY

The supplier should provide comprehensive on-site warranty for the entire system and peripherals (including parts and labour) for three years after successful installation and commissioning of complete system. The supplier should also quote AMC on regular basis beyond the warranty period for a period of three years.

TECHNICAL BID SHOULD BE ACCOMPANIED BY

1. One set of catalogues of full system (all modules).
2. Any module included is manufactured by another manufacturer; letter of agreement and terms and conditions is also to be enclosed.
3. Statement of all site requirements for installation and operations of the equipment specified.

TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADRUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM

Sr. No.	TECHNICAL COMPLIANCE STATEMENT FOR SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADRUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
1	<p>Requirement Triple quadrupole Gas Chromatograph mass spectrometer system (Top-of-the-line model) with windows base software is needed for qualitative and quantitative analysis of liquid/Gas/Solid samples for wide range of R&D application mainly Persistent Organic Pollutants, Hydrocarbons including PAH, Alcohols, Fatty Acids, Heterocyclic Compounds (including PCB's, pesticides etc.) and VOC's in water, air and soil/sediments samples up to 1 pg level.</p> <p>Gas Chromatograph should have self diagnostic functions, built in keyboard and screen to control various parameters, apart from software controlling system through PC.</p>		
	<p>Compliance of system for measurement techniques It must include a Gas Chromatograph with two injection ports, FID detector, and Triple Quadrupole mass spectrometer with DIP, EI, PCI & NCI, with liquid Auto Injector/Sampler and PC workstation with licensed software. System should have a facility to run MS and FID with single sample injection with variable split ratio for feed to MSD and FID.</p>		
	<p>GAS CHROMATOGRAPHY Injector Split/Split less Injectors:</p> <ul style="list-style-type: none"> • Split/split less injectors with temperature range up to 400°C or higher and all carrier gases to be automatically controlled from software (AFC/EPC/PPC). • Fittings suitable for columns of 0.1mmID to 0.53mmID • Working temperature range:40 to 400°C or higher with 1°C increment • Pressure setting up to 900Kpa or more for all type of column • At least five step flow/pressure programming • Split ratio setting:-1 -5000 minimum and total flow up to 1000ml/min 		
	<p>On-Column and Programmable Temperature Vaporizer Injector:</p> <ul style="list-style-type: none"> • OCI with PTV injectors with temperature range up to 400°C or higher and all carrier gases to be automatically controlled from software (AFC/EPC/PPC) • Working temperature range:40 to 400°C or higher with 1°C increment • Pressure setting up to 900Kpa or more for all type of column • Heating rate:40 to 400°C in 5 minutes or less. Maximum heating rate 200°C or more. • Cooling rate: 400 to 40°C in 10 minutes or less. 		
	<p>Column Oven:</p> <ul style="list-style-type: none"> • Working temperature range: ambient plus 5°C to 400°C or higher with increment and accuracy+/-0.5°C or better • Column overheat protection • Ramped heating program, 10 or more ramp and dwell times/Multi-step temperature programming • Oven capacity to accommodate dual capillary column • Should be equipped with fast cooling system so as to reduce cooling time of 400 to 40°C in less than 10 minutes and heating time 40 to 400°C in less than 10 minutes. 		
	<p>FID (Flame Ionization Detector): System should have FID detector in addition to MS detector</p>		

	<p>having details as mentioned below:</p> <ul style="list-style-type: none"> • Temperature range up to 400°C or above • Minimum Detection quantity : 2 pg C/s (Dodecane) or lesser • Dynamic range: 10⁷ or better 		
	<p>Chromatographic performance:</p> <ul style="list-style-type: none"> • Retention time repeatability <0.008% or <0.0008min • Area repeatability<1%RSD 		
	<p>Columns:</p> <ul style="list-style-type: none"> • Fused silica column (30 m x 0.25 mm ID, 0.25μ) cross linked 5% phenyl methyl silicon equivalent to DB-5-MS-4Nos. • Fused silica column (60 m x 0.25 mm ID, 0.25μ) cross linked 5% phenyl methyl silicon equivalent to DB-5-MS-4Nos • Fused silica column (100 m x 0.25 mm ID, 0.25μ)Cyanopropyl Polysiloxane equivalent to DB-23-MS-2Nos. 		
	<p>MS-MS Detector</p> <p>Triple-Quadrupole Mass Analyzer:</p> <ul style="list-style-type: none"> • Mass range≤10-1000 or more (da or amu or u) • Mass Analyzer-Metal Quadrupole mass filter with pre rods • Mass Resolution-minimum 0.7 amu or better • GC transfer line (interface) temperature Settable up to 350°C • Scan rate-11000 amu/second or more • Scan rate fully variable • MRM speed (transitions/sec) 500 MRM/Sec or more • Simultaneous analysis of SRM or MRM with full SCAN/SIM and SCAN in one injection • Scan Modes: Precursor, Product, Neutral Loss, SIM, MRM 		
	<p>Ion Source.</p> <ul style="list-style-type: none"> • Ionization mode-EI, PCI, NCI • Electron Energy: 10-150 eV (user selectable) • Temperature settable from 150°C to 300°C • Filament: Dual (Automatic switching) with Emission Current: 5 to 230 μA. 		
	<p>Detector:</p> <ul style="list-style-type: none"> • Sealed long-life electron multiplier • Lens for noise reduction and 10kv Conversion dynode • Must have wide dynamic range 		
	<p>Vacuum System.</p> <ul style="list-style-type: none"> • System should have high capacity differential pumped vacuum system • Pump Air-cooled turbo molecular of 250 L/sec or more with separate pumping for ion source and quadruple for homogenous vacuum backed up by rotary pump of at least 30ltr/min • Vacuum gauge provided as Standard for wide-range of vacuum monitoring. • Vacuum control should be fully automatic to make ON/OFF of each pump in startup & shut down, opening & closing of valve. 		
	<p>Sensitivity and capability:</p> <ul style="list-style-type: none"> • EI full scan sensitivity 1.0pg OFN_{> 850:1} & Guaranteed Installation Specs for MRM sensitivity 100fg OFN, S/N_{> 5000}: 1 or more. • PCI MRM S/N 1 u1 of 100fg Benzophenone (Bzp) m/z 193 -> 110 should produce S/N ratio of 150: 1 or more • NCI scan of 1 pg OFN m/z 272 should produce S/N ratio of 4000: 1 or more 		
	<p>Direct Insertion Probe:</p> <ul style="list-style-type: none"> • System should have facility to inject solid & liquid samples directly in to MS bypassing GC for analysis of pure high molecular weight samples without venting vacuum and without dismantling GC & MS apart or disturbing GC set up or passing the samples through GC column. 		

	<ul style="list-style-type: none"> Independent heating up to 500°C & 5 steps temperature program levels 		
	<p>Detector Splitting System with independent auto flow control:</p> <ul style="list-style-type: none"> System should have a facility to split the sample at the end of the column in a variable ratio decided by the user to FID and MS-MS simultaneously in one injection. 		
	<p>LIQUID AUTO INJECTOR/SAMPLER:</p> <ul style="list-style-type: none"> System should be having auto sampler with capacity of minimum 100 vial tray or more for automated operation of liquid samples. 		
	<p>DYNAMIC HEAD SPACE SAMPLER WITH TRAP</p> <ul style="list-style-type: none"> Low level detection up to ppb and sub ppb level of VOC Dynamic head space with direct interface with GC, Should have 30 vial carousel or more, 10 vial incubator with vial mixer/shaker Vial temperature minimum 150°C, flow control, PC controlled Should allow headspace injection 		
	<p>AIR SAMPLE COLLECTOR</p> <ul style="list-style-type: none"> For air sampling at field, sequential pump with more than 20 ATD sample tubes should be provided, with diffusion limiting caps. Should be capable to operate on 12V battery and or 240 V AC. It should also be supplied with carbopack and corbosieve tubes (10 numbers each) sample tubes and monitoring pump with all accessories to make to completely functional set at field Additionally it should be supplied with five numbers set of pocket series pump (portable small, lightweight and compact) for collection of VOC'S with 10 tubes. 		
	<p>THERMAL DESORPTION SYSTEM</p> <ul style="list-style-type: none"> Automated system with > 40 TD tube with essential sampling accessories Pump with facility to flow 25 ml/minute to 100 ml/minute at 80°C to 300°C for sampling offsite Should be provided with 10 tubes each for VOC estimation as per EPA method System should be compatible with entire TD application range i.e C2 to nC40 hydrocarbon plus labile compounds It should have controlled cooled packed cold trap capable of cooling sub-zero temperature as per standard EPA methods 		
	<p>VENT-FREE GC/MS ADAPTER</p> <ul style="list-style-type: none"> Should support GC/MS Maximum temperature: 400°C or better Column: Ultra ALLOY™ (id 0.25mm) / Fused Silica (id 0.25/0.32mm) 		
	<p>GAS CYLINDERS WITH PURIFICATION PANEL</p> <ul style="list-style-type: none"> Helium, hydrogen, nitrogen, zero air (two sets each), Isobutene with gas purification panel for all gases with required purification CI reagent gas cylinders-(methane, ammonia and isobutene-one each) 		
	<p>Regulators (from Reputed International Manufacturers) Two stage, metal diaphragm, S.S. body regulators for all gas cylinders</p>		
	<p>DATA SYSTEM</p> <p>GCMS-MS software: It should perform quantitative and qualitative analysis, Full Instrument Control with data collection & processing, user friendly in operation. Should have in built in facility for automatic retention time adjustment function, automatic method development for SCAN and SIM, System suitability, simultaneous measurement of SIM & SCAN, automatic tuning, detailed library search function having similarity</p>		

	search + Similarity search with retention index + index search.		
	Mass Spectral Database: Latest version of NIST and Pesticide libraries.		
	<p>MRM Database: The database should be simple & easy to use, can be added to the GC-MS/MS method.</p> <ul style="list-style-type: none"> • Change between EI, PCI, NCI by user without any hassle • Software must be capable of fully automated peak centering in all modes of operation and preferably of peak de-convolution of peaks • Parameters such as stability and linearity must be monitored and determined automatically during acquisition of samples <p>Upgradation of software as and when available from company should be provided free of cost.</p>		
	<p>Computer System Minimum: Processor 3.4GHz: 8MB: 4C, 8GB Dual Channel DDR3 SDRAM Memory, 1TB SATA 3.0Gb/s Hard Drive, 16X DVD+/-RW drive, 20" Monitor with FHD LED, USB Optical Mouse, USB keyboard, 500 GB hard drive, Genuine windows 7/8-64 bit professional.</p>		
	Printer: Color laser printer with minimum 600 dpi resolution		
	<p>AFTER SALES SUPPORT Vendor must have service organization in India, for which detailed documentation is required, including full disclosure of names, locations, training, and years of experience. The company must offer regularly scheduled, formal user training courses with published syllabi and supported by formal printed documentation. Response for service and troubleshooting should be within seven days.</p>		
	<p>DEMONSTRATION DURING INSTALLATION Initial training and demonstration on supplied and commissioned instrument and accessories should also be provided to group of Scientists at NCAOR-Lab</p> <ul style="list-style-type: none"> • The quality of analyses, leading to confidence and defensible results. <i>Full automation from sample introduction to reporting</i> • High precision measurements for small sample sizes, or gases • All consumables and standards required for demonstration will be provided by the vendor • Comprehensive set of automated diagnostics • Low noise design 		
	<p>INSTALLATION & TRAINING Complete systems and its peripherals should be installed and commissioned at NCAOR. After successful installation selected scientific/technical personnel from NCAOR should be provided with hands-on and in-depth training on the operation and maintenance of the system as well as specific application training by factory engineers and application specialists at factory/site for not less than 10 days.</p>	Factory	
		Site	
	<p>SPARES AND CONSUMABLES Supplier should provide commitment to provide all parts of the instrument and ancillary supplied systems for ten years from the date of installation.</p> <ul style="list-style-type: none"> • The offer should include all spare/accessories/consumables/standards for the entire system and its peripherals which are not covered in the comprehensive warranty, for ensuring trouble free performance of the system for the three years. The supplier will be solely responsible for any additional requirements for spares/consumables within this period. • Full service manuals with circuit diagrams and circuit descriptions should be supplied, along with diagnostic tools including interface cards and software, plus any specialized mechanical tools required for instrument servicing/repair. • For each module the quotations should include an indication of all consumables required per full batch of samples. 		
	WARRANTY		

	The supplier should provide comprehensive on-site warranty for the entire system and peripherals (including parts and labour) for three years after successful installation and commissioning of complete system. The supplier should also quote AMC on regular basis beyond the warranty period for a period of three years.		
	<p>TECHNICAL BID SHOULD BE ACCOMPANIED BY</p> <ol style="list-style-type: none"> 1. One set of catalogues of full system (all modules). 2. Any module included is manufactured by another manufacturer; letter of agreement and terms and conditions is also to be enclosed. 3. Statement of all site requirements for installation and operations of the equipment specified. 		

TERMS AND CONDITIONS FOR SUBMISSION OF QUOTATION

1) The National Centre for Antarctic and Ocean Research (NCAOR) invites sealed quotations in two-parts from the reputed firms for the **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”** as per the specifications given in Annexure-I.

2) The technical and financial bids should be submitted in two separate sealed covers, super scribing “Part –I Technical Bid for **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”**, Tender No., due date and “Part-II Financial bid for **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”**, Tender No., due date. Both the bids should be kept in a single cover by super scribing tender for **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”**, sealed and addressed to the **Director, National Centre for Antarctic & Ocean Research, Headland-Sada, Vasco-da-Gama, Goa – 403 804.** Offer sent through fax will not be accepted.

3) Overwriting and corrections should be attested properly. The bid should be complete in all respects and should be duly signed. **Incomplete and unsigned bids will not be considered at all.**

4) All relevant technical literature pertain to items quoted **with full specifications** (Drawing, if any), information about the products quoted, including brochures if any should accompany the quotation.

5) A list of **reputed clients** to whom the firm has supplied similar items to be furnished along-with the quotation.

In the TECHNICAL BID, the Bidder should furnish the Name and address of the Purchasers placed orders on similar equipment with order No, date, Description and quantity, Date of Supply alongwith Contact person Telephone No, Fax No, and e mail address of Purchaser.

The Bidder should enclose copies of Purchase Orders only in the FINANCIAL BID.

6) Quotation should be **valid for a period of 120 days** from the date of tender opening and the period of delivery required should also be clearly indicated. If the supplier fails to deliver the goods within the time to be agreed upon, for delayed deliveries and for delays in installation

(wherever applicable). NCAOR reserves the right to **levy liquidated damages** at the rate of 0.5% per week or part thereof up to a maximum of 5%.

7) The **warranty period** and the kind of **post-warranty support** should be indicated. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract.

8) **Technical bid should contain EMD.**

A) Foreign Bidders shall submit **EMD** along with their tender **in the form of a bank guarantee** for a sum of US \$ 1900.00 (US\$ One Thousand Nine Hundred only) from any reputed bank (scheduled bank in India or foreign bank having operational Branch in India) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed. This bank Guarantee in original shall be submitted along with the technical bid only.

B) Indian Bidders shall submit **EMD** along with their tender, **either By DD** drawn in favor of NCAOR, on any nationalized bank for a sum of ` 1,00,000/- (Rupees One Lakh only) payable at Vasco-da-Gama only **or in the form of a bank guarantee** for a sum of ` 1,00,000/- (Rupees One Lakh only) from any reputed bank (scheduled bank) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed. This bank Guarantee in original shall be submitted along with the technical bid only.

Tender without EMD in the envelope containing technical bid shall be summarily rejected. The EMD of unsuccessful bidders shall be returned within 30 days of the award of contract.

The earnest money will be liable to be forfeited, if the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of his tender.

9) Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.

10) The Purchaser requires that the bidders suppliers and contractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the following are defined:

“Corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution:

“fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of contract;

“collusive practice” means a scheme or arrangement between two or more bidders, with or without the knowledge of purchaser, designed to establish bid prices at artificial, noncompetitive levels; and

“coercive practice: means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of contract;

The purchaser will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question; The Decision of Director, NCAOR shall be final and binding.

11) Bidders that doesn't manufacture the goods it offers to supply shall submit Manufacturer's Authorization form on the letterhead of the Manufacturer duly signed and stamped by a person with the proper authority to sign documents that are binding on the Manufacturer as per the following format should be submitted failing which the quotation will not be considered.

To
The Director
NCAOR
GOA

Sub: Manufacturers' Authorization form against Tender No: _____

We _____(Name of the Manufacturer) who are official manufacturers of _____(Type of goods manufactured) having factories at _____(full address of Manufacturer's factories) do hereby authorize _____(Name of the Bidder) to submit a bid against your Tender No. _____for the _____Goods manufactured by us and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty with respect to the Goods offered by the above firm

Manufacturer's Name:
Signature of Authorized

representative of the Manufacturer:

Duly authorized to sign this Authorization on behalf of : _____(Name of the Bidder)

Date:

In case the bidder not doing business within India, shall furnish the certificate to the effect that the bidder is or will be represented by an agent in India equipped and able to carry out the supply, maintenance, repair obligations etc., during the warranty and post warranty period or ensure a mechanism at place for carrying out the supply, maintenance, repair obligations etc., during the warranty and post- warranty period.

12) The order acknowledgement should be from the principals and if the Indian Agent is empowered to quote and to furnish order acknowledgement, a copy of agreement entered by you with the Indian Agent to be furnished.

13) **Compliance Statement:** Equipments point-by-point comparison/compliance statement with **technical specification** indicated in the tender, should be enclosed along with your tender as well as any other extra features of the equipment be shown separately therein and also **compliance statement for all commercial terms** of the tender document.

14) NCAOR is not entitled to issue form “**C/D**”. No Sales Tax or any other Tax shall be payable by us unless payment of the same is specifically mentioned by the suppliers in their bids and same is legally leviable.

15) To avail duty concessions i.e. **Excise Duty** as per Govt. notification 10/97 & **Custom Duty** as per Govt. notification 51/96, NCAOR will provide exemption certificates. Hence, the rates should be split into basic cost and Excise Duty if any.

16) **Technical Bid should contain** all details and specifications of the equipment offered, delivery schedule, warranty, payment term, installation, training, post-warranty, user-list, service support **WITHOUT PRICE** and **Financial bid should contain** details of the price(s) of the item(s) quoted in the technical bid. The Technical bid should not contain any references to the pricing.

In case the technical bid contains any direct or indirect reference to quoted price the bid is liable to be rejected.

The Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries.

For Goods manufactured in India:

F.O.R GOA price should be indicated. However tender should contain item-wise prices including total ex-works price, Excise Duty, VAT/Taxes, Charges for Inland Transportation, Insurance and other local services required for the delivering the goods on F.O.R GOA.

17) In case of imported stores both **FOB and CIF prices upto Indian port of entry** namely Goa and for indigenous stores on F.O.R. destination basis should be indicated. However tender should contain item-wise prices including total ex-works price, overall weight & dimensions of the equipment and cost of packing forwarding, approx. cost of air-freight charges for delivery up to Goa, India.

18) A Committee constituted by the Director, NCAOR for the purpose reserves the right to open the bids. Only technical bids will be opened on the date and time mentioned in the tender document. The financial bids of those tenderers whose technical bids are found to be meeting our specifications only will be opened in their presence at date and time to be notified later.

19) The firm to the full satisfaction of the NCAOR should carry out the **installation and commissioning** at the NCAOR premises and the time-frame for the whole process should be specified in the technical bid.

20) A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.

21) **No advance payment** will be made. Payment for indigenous stores shall be made within 30 days from the date of receipt, acceptance and satisfactory installation of equipment and incase of imported stores by **irrevocable letter of credit**. The payment will be authorized after submission of a Bank Guarantee for 10% value of the order towards warranty guarantee. The **performance Bank Guarantee** should be furnished within 15 days from the date of placement of order from a reputed bank (scheduled bank in India **or** foreign bank operating in India) valid till 60 days after the warranty period.

22) Suppliers should clearly define the mechanisms of **post-warranty** maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years (post-

warranty). Post Warranty, AMC charges for a period of 3 years (annual bases) should also be quoted separately in the financial bid.

23) If the quoted item needs to be imported then the undertaking needs to be produced from the original supplier stating that Post Warranty support for a minimum period of 7 years will be provided from the original supplier to NCAOR on LC Terms of payment. If payment needs to be made and **spares will be supplied on the lowest rate quoted** than to any other customer with providing the sales price list to the NCAOR periodically as and when increase/decrease in prices.

24) Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”**.

25) **The submission of tender** shall be deemed to be an admission on the part of the tenderer, had fully acquainted with the specifications, drawings etc. and no claim other than what stated in the tender shall be paid in the event of award of Purchase Order.

26) Expenditure involved towards any extra materials required for labour involved for successful installation of the equipment, if not quoted for, would have to be borne by the tenderer.

27) **Acceptance of this tender** form and submission of the quote within the stipulated time would be treated as:

a) The tenderer has understood all requirements as described in our Tender document.

b) Acceptance to provide/establish all the facilities mentioned in our tender without any price escalation, if the tenderer finds it necessary to add any hardware or software or any other materials during implementation.

c) Agreeing to execute order to the satisfaction of NCAOR or its authorized representatives within the stipulated time.

28) Training /Installation charges should be clearly indicated including the scope of training.

29) Tender should clearly define the **infrastructure facilities required** for installation of the equipment.

30) NCAOR will not be liable for any obligation until such time NCAOR has communicated to the successful bidder of its decision to release the Purchase Order.

31) **NCAOR will not be responsible for any postal delays.**

32) Bidders shall note that NCAOR will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

33) Tenders from Manufacturers/Suppliers/Tenderers whose performance was not satisfactory in respect of quality of supplies and delivery schedules in any organizations, are liable for rejection. The tenders that do not comply with the above criteria and other terms & conditions are liable for rejection.

34) The Director, NCAOR does not bind to accept the lowest quotation and reserves the right to himself, to reject or partly accept any or all the quotations received without assigning any reason.

35) All disputes arising in connection with executing the purchase order will be subject to the Jurisdiction of the Courts in Goa only.

COMMERCIAL COMPLIANCE STATEMENT FOR SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”.

Sr. No.	COMMERCIAL SPECIFICATION FOR SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
1	A list of reputed clients to whom the firm has supplied similar items to be furnished along-with the quotation.		
2	In the TECHNICAL BID, the Bidder should furnish the Name and address of the Purchasers placed orders on similar equipment with order No, date, Description and quantity, Date of Supply alongwith Contact person Telephone No, Fax No, and e mail address of Purchaser.		
3	The Bidder should enclose copies of Purchase Orders only in the FINANCIAL BID.		
4	Quotation should be valid for a period of 120 days from the date of tender opening and the period of delivery required should also be clearly indicated.		
5	The warranty period and the kind of post-warranty support should be indicated. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract.		
6	Foreign Bidders shall submit EMD along with their tender in the form of a bank guarantee for a sum of US\$ 1900.00 (US\$ One Thousand Nine Hundred only) from any reputed bank (scheduled bank in India or foreign bank having operational Branch in India) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed. This bank Guarantee in original shall be submitted along with the technical bid only.		
7	Indian Bidders shall submit EMD along with their tender, either By DD drawn in favor of NCAOR, on any nationalized bank for a sum of ` 1,00,000/- (Rupees One Lakhe only) payable at Vasco-da-Gama only or in the form of a bank guarantee for a sum of ` 1,00,000/- (Rupees One Lakhe only) from any reputed bank (scheduled bank) initially valid for 180 days from the date of closing of the tender as per the proforma enclosed. This bank Guarantee in original shall be submitted along with the technical bid only.		
8	Tender without EMD in the envelope containing technical bid shall be summarily rejected. The EMD of unsuccessful bidders shall be returned within 30 days of the award of contract.		
9	Please specify the Make/Brand and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.		
10	The order acknowledgement should be from the principals and if the Indian Agent is empowered to quote and to furnish order acknowledgement, a copy of agreement entered by you with the Indian Agent to be furnished.		
11	Compliance Statement: Equipments point-by-point comparison/compliance statement with technical specification indicated in the tender, should be enclosed along with your tender as well as any other extra features of the equipment be shown separately therein and also compliance statement for all commercial terms of the tender document.		
12	NCAOR is not entitled to issue form “C/D” . No Sales Tax or any other Tax shall be payable by us unless payment of the same is specifically mentioned by the suppliers in their bids and same is legally leviable.		
13	To avail duty concessions i.e. Excise Duty as per Govt. notification 10/97 & Custom Duty as per Govt. notification 51/96, NCAOR will provide exemption certificates. Hence, the		

	rates should be split into basic cost and Excise Duty if any.		
14	Technical Bid should contain all details and specifications of the equipment offered, delivery schedule, warranty, payment term, installation, training, post-warranty, user-list, service support WITHOUT PRICE and Financial bid should contain details of the price(s) of the item(s) quoted in the technical bid. The Technical bid should not contain any references to the pricing.		
15	In case the technical bid contains any direct or indirect reference to quoted price the bid is liable to be rejected.		
16	The Prices shall be quoted in Indian Rupees for offers received for supply within India and in freely convertible foreign currency in case of offers received for supply from foreign countries. For Goods manufactured in India:		
17	F.O.R GOA price should be indicated. However tender should contain item-wise prices including total ex-works price, Excise Duty, VAT/Taxes, Charges for Inland Transportation, Insurance and other local services required for the delivering the goods on F.O.R GOA.		
18	In case of imported stores both FOB and CIF prices upto Indian port of entry namely Goa and for indigenous stores on F.O.R. destination basis should be indicated. However tender should contain item-wise prices including total ex-works price, overall weight & dimensions of the equipment and cost of packing forwarding, approx. cost of air-freight charges for delivery up to Goa, India.		
19	A Committee constituted by the Director, NCAOR for the purpose reserves the right to open the bids. Only technical bids will be opened on the date and time mentioned in the tender document. The financial bids of those tenderers whose technical bids are found to be meeting our specifications only will be opened in their presence at date and time to be notified later.		
20	The firm to the full satisfaction of the NCAOR should carry out the installation and commissioning at the NCAOR premises and the time-frame for the whole process should be specified in the technical bid.		
21	A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.		
22	No advance payment will be made. Payment for indigenous stores shall be made within 30 days from the date of receipt, acceptance and satisfactory installation of equipment and incase of imported stores by irrevocable letter of credit .		
23	Suppliers should clearly define the mechanisms of post-warranty maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years (post-warranty). Post Warranty, AMC charges for a period of 3 years (annual bases) should also be quoted separately in the financial bid.		
24	If the quoted item needs to be imported then the undertaking needs to be produced from the original supplier stating that Post Warranty support for a minimum period of 7 years will be provided from the original supplier to NCAOR on LC Terms of payment. If payment needs to be made and spares will be supplied on the lowest rate quoted than to any other customer with providing the sales price list to the NCAOR periodically as and when increase/decrease in prices.		
25	Two sets of operational, service/troubleshooting manuals and diagrams to be supplied with “SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”		

26	The submission of tender shall be deemed to be an admission on the part of the tenderer, had fully acquainted with the specifications, drawings etc. and no claim other than what stated in the tender shall be paid in the event of award of Purchase Order.		
27	Expenditure involved towards any extra materials required for labour involved for successful installation of the equipment, if not quoted for, would have to be borne by the tenderer.		
28	<p>Acceptance of this tender form and submission of the quote within the stipulated time would be treated as:</p> <ul style="list-style-type: none"> • The tenderer has understood all requirements as described in our Tender document. • Acceptance to provide/establish all the facilities mentioned in our tender without any price escalation, if the tenderer finds it necessary to add any hardware or software or any other materials during implementation. • Agreeing to execute order to the satisfaction of NCAOR or its authorized representatives within the stipulated time. 		
29	Training /Installation charges should be clearly indicated including the scope of training.		
30	Tender should clearly define the infrastructure facilities required for installation of the equipment.		

QUESTIONNAIRE

- a. **Name of the Manufacturer / Tenderer.**
- b. **Full postal address with Telephone, Telefax, Email.**
- c. **Please specify whether Public Limited, Company, Private Organization or Partnership Firm.**
- d. **Nature of the Business.**
- e. **Date of Establishment.**
- f. **Present Turnover.**
- g. **Permanent Income Tax Ref. No.**
- h. **C.S.T. / S.T. NO.**
- i. **Address & Telephone Nos. Of your branch office in GOA (please specify whether Distributing/Servicing/Marketing the products).**
- j. **Technical Compliance statement.**
- k. **Commercial Compliance statement.**
- l. **Reference of reputed Customers.**
- m. **Details of the highest order executed and value thereof.**
- n. **Authorization from Manufacturer/Supplier attached.**
- o. **Tender fee submitted/enclosed.**
- p. **E.M.D. attached with TECHNICAL BID.**
- q. **Infrastructure facilities required for installation & commissioning attached.**
- r. **Technical Specifications/Literature/Brochure attached.**
- s. **Tender Acceptance.**

TENDER ACCEPTANCE UNDERTAKING

To

The Director,
NCAOR, Headland Sada,
Vasco – Goa.

Having examined the tender document for **“SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM”** we the undersigned hereby offer to supply the equipment in conformity with all specifications and conditions set out in the tender document.

We enclosed all the relevant documents as per the tender.

We understand that you are not bound to accept the lowest or any tender received.

Date :

(Signature of Bidder)

Name :

Designation :

Seal

BANK GUARANTEE FORMAT FOR FURNISHING EMD**To****NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH
Headland Sada, Vasco-da-Gama, GOA 403 804, INDIA**

Whereas _____
 (Hereinafter called the "tenderer")
 has submitted their offer dated _____
 for the supply of _____

(Herein after called the "tender")
 WE _____ of having our registered office
 At _____ are bound unto the NATIONAL

(Hereinafter called the Bank)
 CENTRE FOR ANTARCTIC & OCEAN RESEARCH, Ministry of Earth Sciences, Govt. Of
 India having its office at Headland Sada, Vasco Goa 403 804, India (herein after called
 NCAOR which expression shall unless repugnant to the context or meaning thereof include
 all its successors, administrators, executors and assigns) in the sum of _____
 for which payment will and truly to be made to. NCAOR, the Bank binds itself, its
 successors and assigns by these presents. Sealed with the common seal of the said Bank
 this _____ day of _____ 2014.

THE CONDITIONS OF THIS OBLIGATION ARE:

- 1) If the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the tenderer having been notified of the acceptance of his tender by NCAOR during the period of its validity.
 - 2.a) If the tenderer fails to furnish the Performance security for the due performance of the contract.
 - 2.b) Fails or refuses to execute the contract

We undertake to pay NCAOR up to the above amount upon receipt of its first written demand, without NCAOR having to substantiate its demand, provided that in its demand the NCAOR will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee is valid until the _____ day of _____ 2014.

Signature of the bank

NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH
 (Ministry of Earth Sciences, Govt. Of India)
 Headland Sada, Vasco-da-Gama GOA 403 804, INDIA
 Tel: 91- (0) 832 2525571 Telefax: 91- (0) 832 2525573
 Email: warlu62@ncaor.gov.in Website: www.ncaor.gov.in

GLOBAL TENDER

Director, National Centre for Antarctic & Ocean Research (NCAOR) invites sealed tenders in two-parts (part I – Technical bid & part II Financial bid) super scribing Tender No. Item and due date from well established/ reputed manufacturers / authorized and bonafide vendors for supply of the following:-

Sl. No.	Tender No.	Item Description	Qty.	Cost of Tender Doc.		EMD	
				US\$	US\$	US\$	US\$
1	NCAOR/LAB-2184/PT-32	SUPPLY, INSTALLATION AND COMMISSIONING OF TRIPLE QUADUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (GCMS-MS) SYSTEM	01	2000/-	50.00	1,00,000/-	1900.00

Last date for issue of tender documents : **13.10.2014**

Last date for submission of quotation : **14.10.2014**

The details of tender documents are also available in our website <http://www.ncaor.gov.in> and Central Public Procurement Portal <http://eprocure.gov.in>. Interested suppliers may download the details and submit the quotation on or before the due date along with tender fee.

The quotation without tender fee will not be considered.

Tender forms can be obtained from the Procurement section of NCAOR on all working days either by post or in person between 1000 – 1600 hours on payment of tender fees in the form of crossed Demand Draft payable at Vasco-da-gama only, from a Nationalized bank drawn in favor of **NCAOR** along with separate requisition indicating tender number and item. Tender forms can be obtained by speed post by remitting Rs. 50.00 by Indian bidders and US\$ 15.00 by Foreign bidders in addition to the cost of tender documents.

The Director, NCAOR is not responsible for any transitional/postal delays.

The quotations will be **opened on 15.10.2014** in the presence of tenderers or their authorized representatives.

The Director, NCAOR reserves the right to accept or reject any quotation in full or part thereof without assigning any reason.

**Sd/-
For & on behalf of NCAOR**