



Mohanlal Sukhadia University, Udaipur Department of Environmental Sciences

NOTICE INVITING E-BID
MLSU/ES/RUSA/E-Bid/22-23/61 DATE: 11/01/2023

Bidding Document

**(For Procurement of Gas Chromatography Triple
Quadrupole Mass Spectrometer with Auto Sampler,
FID & TCD Detector)**

Single Stage Online Bid under Two Cover Systems

Last Date for Bid Submission is 30 January 2023



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

NOTICE INVITING TENDER THROUGH E-PROCUREMENT

MLSU/ES/ RUSA/E-Bid/22-23/61 DATE: 11/01/2023

Online bids are invited from the interested firms under single stage two bid system for procurement of “**Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector**” at Mohanlal Sukhadia University Udaipur Rajasthan. Manual bids shall not be entertained. **Tender document may be downloaded** from websites SPPP Rajasthan (<https://sppp.rajasthan.gov.in/>), e-procurement (<https://eproc.rajasthan.gov.in>) and University website (<https://mlsu.ac.in>) as per schedule as given in **CRITICAL DATE SHEET** as under.

Note: - Online single stage tender two bid system (technical and financial) must be uploaded strictly in accordance with all the terms & conditions of the University, otherwise the tender shall not be considered and shall be rejected outright. Counter conditions shall not be accepted. Bidders should read these conditions very carefully and comply strictly before submitting their tender. If a bidder has any doubts regarding the interpretation of any of the conditions or specifications mentioned in these documents, before submitting the tender, refer to the Head, Department of Environmental Sciences and obtain clarification. The decision of the Head, Department of Environmental Sciences regarding interpretation of the conditions and specification shall be final and binding on the bidders.

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**Head
Department of Environmental Sciences
Mohanlal Sukhadia University, Udaipur**



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

CRITICAL DATE SHEET, TENDER FEE AND EMD

| | |
|--|---|
| Tender No. | MLSU/ES/RUSA/E-Bid/22-23/61 DATE: 11/01/2023 |
| Date for issue E-Bid | 11-01-2023 |
| Date & Time Publishing | 12-01-2023 (09:00 AM) |
| Document Downloads/ Sale Start Date & Time | 12-01-2023 (09:00 AM) |
| Website for Downloading Bid Documents | https://eproc.rajasthan.gov.in |
| Bid Submission Start Date & Time | 12-01-2023 (09:00 AM) |
| Pre Bid Meeting at Department of Environmental Sciences, Vigyan Bhawan, Block- B, Mohanlal Sukhadia University, Udaipur, 313001 | 23-01-2023 (11:00 AM) |
| Bid Submission End Date & Time | 30-01-2023 (06:00 PM) |
| Date & Time for Opening of Bids | 31-01-2023 (11:00 AM) |
| Tender Fee EMD | RISL bid processing fees of Rs. 1000/- for MD RISL, Jaipur payable at Jaipur (Managing Director, Raj Comp Info Services Ltd.) Rs. 2000/- (For Tender) Rs. 1,60,000/- (For EMD 2%) (All Fess to be paid through RTGS/NEFT. Bank details are as under: Beneficiary Name: HEAD, DEPARTMENT OF ENVIRONMENTAL SCIENCES, MOHANLAL SUKHADIA UNIVERSITY Bank Name: ICICI Bank Pvt. Ltd. Branch Address: B.N. College, Udaipur (Rajasthan) Bank Account No.: 693201700431 IFSC Code: ICIC0006932 MICR Code: 313229012 (This is mandatory that UTR Number is provided) |
| Security Deposit | 2.5% |
| Warranty | 3 year |
| Bid Validity | 360 days |
| Address for Communication | Department of Environmental Sciences, Vigyan Bhawan, Block- B, Mohanlal Sukhadia University, Udaipur, 313001 |



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

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(A bridged Form of Notice Inviting e-Bids to be published in newspapers with UBN Nos.)

**DEPARTMENT OF ENVIRONMENTAL SCIENCES,
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR
NOTICE INVITING E- BID No.:
MLSU/ES/RUSA/E-Bid/22-23/61 DATE: 11/01/2023**

Two (02) single stage online unconditional bids under two-cover system are invited for the procurement of **“Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector”** for Research purpose from manufacturers/ authorized distributors/ authorized dealers up to 06:00 PM of 30-01-2023.

Details of required number of items, specifications and other terms and conditions etc. may be seen in the Bidding Documents on the website <https://sppp.rajasthan.gov.in/>, <https://eproc.rajasthan.gov.in> and University website www.mlsu.ac.in

NIB Code.....

UBN No.....

**Head,
Department of Environmental Sciences,
Mohanlal Sukhadia University, Udaipur**



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

TECHNICAL SPECIFICATIONS

| Item Name and Specifications | (Estimated Cost: 80 Lacs including 18% GST) |
|---|---|
| Item: Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector | |
| Specifications | |
| (a) Gas Chromatography Triple Quadrupole Mass Spectrometer: | |
| <ul style="list-style-type: none">• Gas Chromatograph coupled with Triple Quadrupole Mass Spectrometer with Auto sampler, FID & TCD.• GCMS should have touchscreen display.• EPC resolution of 0.001 psi with facility of retention time locking facility or retention time alignment or retention time adjustment or automatic adjustment of retention time.• The GC/MS/MS system should be fully automated with single point software control for accurate control of pressure/flow setting of inlets and detectors and the model quoted should be of latest configuration by the reputed company.• The Triple Quadrupole GCMSMS system must offer superior sensitivity and robustness, fast easy methods development for multi-component quantification.• The system should be upgradable for minimum detection limit, second inlet as well as headspace sampler, if require in future.• All the necessary accessories, consumables, software etc. should be quoted.• A certificate of the principals to be included stating the instrument spares and service will be available 7years after the supply.• GC transfer line temperature should be up to 350° C or better• GC should have one capillary column for pesticide analysis.• Provision to use of capillary columns with different internal diameter, film thickness and length.• Instrument should have column replacement facility without breaking the vacuum.• Instrument should be quoted with suitable probe which can do liquid and solid sample analysis without sample preparation.• Should be able to use of helium and hydrogen as a carrier gas. | |
| (b) GC Column Oven: | |
| <ul style="list-style-type: none">• Temp. Range: Ambient +4°C to 450°C | |

- Ramp Rate: 120°C/min or more
- Cooling rate: 450°C to 50°C in 4 min or better
- Number of ramps/plateaus: 20/21 or more
- Should be able to accommodate two injectors & two capillary columns

(c) Injector (One):

GC should be supplied with Programmable Vaporizer Injector (PTV/MMI) with following specification:

- Supports hot/cold split and split less modes.
- Temperature range: up to 450°C
- Temperature programming of up to 3 rams at up to 250°C/min or better
- Pressure setting range: 0-100 psi or better
- EPC resolution of 0.001 psi
- Retention time locking facility/ Retention time alignment or automatic adjustment of retention time.
- The injector should permit large volume split less injection (up to 50 microliters) without requiring pressure pulse to quantitatively recover the whole sample, and without any further hardware requirement.

(d) Auto Sampler (One)

- Vial: 16 vials or more
- Vial capacity: 2 ml
- Sample injection capability: Minimum 0.01 to 10 µl.
- Manual injection should be possible without any difficulty.

(e) Flame Ionization Detector

- Minimum detection level of 1.2 Pg C/sec or better
- Temperature: 450°C or better
- FID - Data acquisition rate: up to 300 Hz or better
- The system should have one FID detector with the Flame ionization detector cleaning kit
- FID - Dynamic range of FID: $> 10^7$ or better
- Should also include reamers, wire mini brushes, handle
- Full range digital data path enable peak to be quantified over the entire 10^7 concentration range in single run
- All gases flow should be adjustable/controlled by software only

(f) Thermal Conductivity Detector (TCD)

- Capillary column optimized (micro TCD), compatible with 1/8" and 1/16" packed column

- Maximum temperature: 400 °C settable in 0.1 °C steps
- Minimum Detection Limit: <400 pg tridecane/mL with helium carrier or equivalent
- Linear dynamic range: 10^5

(g) MS-MS System:

- Electron energy range: 0-150 eV or more
- Emission Current: up to 350 μ A or more
- Collision Energy Range: 0–60 eV or more
- Mass Range: 10 to 1050 amu or better
- Resolution: Automatic tuning down to 0.4 μ or better.
- Mass analyzer should have heated off axis ion guide for noise reduction or heated Quadrupole or better technology.
- Quadrupole rods should have solid, homogenous non-coated or gold coated and cleanable or better.
- Mass axis stability: ± 0.1 amu over 24 hours or better

(h) Detector:

- Detection system, with off-axis 10 kV dynode, discrete dynode electron multiplier and electrometer or better.
- Linear range: $>10^6$

(i) Ion Source:

- Ionization Modes: Electron Ionization (EI)
- Source temperature: Programmable to 350 °C or more
- It should have integrated, dual filament for EI with improved filament lifetime.

(j) Scan Mode:

- Scan Mode MS: Should have Full scan, Selected Ion Monitoring (SIM), combined full scan/SIM
- Scan Mode MS/MS: Should have Multiple/Selected Reaction Monitoring (MRM/SRM), combined full scan/SRM, product ion scan and Neutral loss modes
- Scan rate: 20,000 amu/s or better
- MRM/SRM Scan Speed: 800 transition / second or better
- Dwell time for SRM/MRM transition: 0.5 msec. or better

(k) Sensitivity Specifications:

- **Electron Ionization SRM/MRM**
 - 1 μ L of 100 fg/ μ L octa fluoro naphthalene (OFN) will produce the following minimum signal-to-noise for the transition from m/z 272 to m/z 222: 6000:1 or better
- **Electron Ionization Full Scan**

- 1 µL of 1 pg/µL OFN will produce the following minimum signal-to-noise for m/z 272 when scanning from 50–300 u: 1,500:1 or better
- **Guaranteed IDL specification at our site**
- **Instrument Detection Limit:** Instrument detection limit on OFN should be 4fg or better with the injection of 1ul of 10fg/ul OFN standard.
- Vendor need to demonstrate IDL at the time of installation, so reference specs are not acceptable

(l) Vacuum System

- It should have a high capacity (>250 L/s), dual-stage turbomolecular pump or better
- It should have standard rotary-vane pump

(m) Pneumatic controls

- Electronic pneumatic controls for injector and detector modules. The electronics carrier gas controller should allow operating in constant and programmed flow and pressure modes.
- Pressure range: 0–100 psi or more
- Split ratio: Up to 8000:1 or more
- Pressure set points minimum increments: 0.01 kPa-0.001 psi in all ranges
- Total Flow Setting:
 - Control of split flow in 1 mL/min from 0 to 1250 mL/min or more
 - Purge flow from 0 to 50 mL/min ore more

(n) GC Analytical Performance:

- Retention Time Repeatability of <0.0008min.
- Typical Peak Area Repeatability: <1% RSD or better

(o) Data System Software with Workstation

- GC and MS system should be integrated with the same work station for simultaneous setting programming and user friendly operation
- It should have a software for controlling GCMS/MS, Liquid & and acquiring data from Mass and conventional detectors
- Chromatography Workstation: Software & Data Acquisition are the part of Workstation
- Fully automated data acquiring & processing software should be quoted with catalogue number.
- Provision to optimize MS parameters automatically (auto tune) or manually through tuning programs and print an Auto tune report
- Provision to view the real-time plot chromatograms and instrument parameters (GC, MS and FID) and print a real-time plot report
- The latest version of the NIST2020 & Wiley MS original Library software with part number should be quoted

- Pesticides MRM database should be supplied.
- The software should have all models of scanning and quantification tools of both the detectors
- Tool kit for routine maintenance of GC and MS, with all necessary cleaning and maintenance material
- It should have easy automatic method development feature
- All the necessary calibrants of GC-MS to be provided along with the instrument
- On-site operation and application training for users
- All the documents, including operation, maintenance and service manual with circuit diagrams should be provided

(p) Consumables with OEM part numbers:

- Autosampler vials (complete set)- 500 nos.
- Graphite/Vespel ferrule for 0.25ID Column: Qty 10
- Graphite/Vespel ferrule for 0.32ID Column: Qty 10
- Test mix for GC-MS/MS
- Injector Septa: Qty 50
- 2ml Vials with caps & septas: Qty 50
- Capillary Column nut for S/SL Injector: Qty 5
- Liner for S/SL Injector: Qty 5
- Liner Sealing Ring for S/SL Injector: Qty 10
- Screw top vial with cap & septa 2ml size: Qty 1000
- Crimp top vial with cap & septa 20/22ml size: Qty 1000
- Vacuum Pump Oil- 1ltrs
- Filament for MS: Qty 2
- Inlet seals & O-rings
- Mass Tuning/Calibration Solution: Qty 1
- Syringe 10ul capacity: Qty 2
- Autosampler liquid syringes- 2 nos.
- Gas tight syringe for manual injection- 1
- Auto sampler liquid syringes – 2 nos.
- Deactivated glass wool
- DB-5MS or equivalent column of 30 mtrs, 0.25 mm id, 0.25 μ m film
- Necessary tool kit for routine maintenance of GC-MS/MS – 1 No.
- R- alkane or any other reference standard (100 Nos.), if required for retention time alignment or

adjustment of retention time.

(q) Accessories:

- High Purity Helium Gas filled cylinder: Qty 1
- High Purity Argon Gas filled cylinder: Qty 1 if required
- High Purity Hydrogen Gas filled cylinder: Qty 1
- High Purity Nitrogen Gas filled cylinder: Qty 1
- High Purity Zero Air Gas filled cylinder: Qty 1
- Double Stage SS Diaphragm Regulator for Helium, Argon, Hydrogen, Zero Air and Nitrogen each: Qty 1
- Gas Purification Panel for All gases
- Vendor has to ensure the supply of Helium Carrier Gas free of cost for a period of minimum 3 Years from the date of installation with a condition that refilling will be provided once in a year at least.

(r) Computer & Printer:

- Suitable PC of a reputed brand with latest configuration (i5 processor, 1 TB or more HDD, 8 GB RAM or more) and 21” or more LCD/LED monitor along with latest laser printer– (One set) OR Suitable PC which should directly come from factory along with preloaded original compatible software and separate data processing unit with Mac OS

(s) UPS:

- Compatible 10KVA Online UPS batteries with 30 minutes back-up,

(t) Warranty:

- 03 Years Warranty

Note:

1. **Purchase should be FOR- Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur, Rajasthan.**
2. **A list of references in India, where similar systems have been installed must be provided and this will be taken very seriously while making the decision**
3. **Demonstration: The supplier should arrange demonstration of the offered instrument in India. Falling to demonstrate the instrument capability as per buyer requirement may lead the disqualification in respect of technical bid**



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

TERMS AND CONDITIONS

1. Pre-condition for applying

The following criteria must be fulfilled by a bidder for submitting bid.

- 1.1 The bidder must be a company/firm registered under the India Company Act, 1956 or a proprietary firm or a firm registered under partnership Act 1932. No consortium is allowed. Necessary certificates must be enclosed.
- 1.2 The bidder must be a manufacturer/authorised dealer /supplier of equipment/ software (as applicable in this bid) of reputed brand used in at least 5 Universities /Educational Institutions in the country.
- 1.3 The manufacturer of the equipment/experiments/software should have been in the business during last three years with dealer/supplier network in different locations in the country.
- 1.4 The manufacturer should have own service engineers capable of installing/servicing equipments/ software at the site of the customer. A certificate from manufacturer must be attached.
- 1.5 The turnover of the company during last financial year must be **Rs 80.0 Lacs or more.**

2. Preparation of Bids

The offer/bid should be submitted in online two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details (Technical Specification) along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BOQ (Annexure-VIIIA & B).

Technical and Financial Bids to be submitted online in PDF format only.

2.1. Technical Bid Format & Content: The technical bid shall not include any financial information. A Technical Bid containing material financial information shall be declared non-responsive.

2.2. The prospective bidders are requested to go through the Terms and Conditions of the contract carefully. The bid documents (Technical and Financial) are to be uploaded as per Annexure I and VIIIA & VIIIB. The rates quoted in the BOQ (VIIIA and VIIIB) should be inclusive of all charges such as labour, transportation, storage etc. but exclusive of applicable taxes. Incomplete or ambiguous uploaded bids without documentary proof will not be considered.

2.3. Format and Signing of Bid

2.3.a. The bid forms/templates/annexures etc. wherever applicable in technical bid shall be typed or written in indelible ink and shall be signed (all the pages) by a person duly authorized to sign, in token of acceptance of all the terms and conditions of the bidding document. This authorization shall consist of a written letter of authorization.

2.3.b. Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initiated by the authorized person signing the bid.

2.3.c. The bid, duly signed (digitally) by Authorized signatory, should be uploaded on the eProc portal in respective file/ format.

2.4. Bid Opening/Opening of tenders

2.4.a. The Bid Evaluation Committee will perform the bid opening, which is a critical event in the bidding process.

2.4.b. The Technical Bids shall be opened online through e-procurement portal <https://eproc.rajasthan.gov>. Bidder may access the document online.

2.4.c. All the bids uploaded up to specified date and time shall be opened online, on date and time at the specified place in the presence of bidders or their authorized representatives who may choose to be present as per procedure laid down in RTPP Rules 2013. Alternatively, the bidders may also view the bid opening status/ process online at eProc website <https://eproc.rajasthan.gov>.

2.4.d. All the documents comprising of technical bid/cover shall be opened ONLINE on the eProc website (only for the bidders who have submitted the prescribed fee(s) intimated/ submitted transition reference to **Head, Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur.**

2.5. Evaluation of Technical Bid

2.5.a. The evaluation shall be completed by the Bid Evaluation Committee as early as possible after opening of technical bids.

2.5.b. The eligible bidders whose bid is determined to be substantially responsive shall be considered to be qualified in the technical evaluation, unless disqualified pursuant to clause “Conflict of Interest” or “Disqualification.”

2.5.c. The Technical Evaluation Committee will assess the ability of the agencies to render the requisite services based on its past record, profile and on such other criteria and only those found fit will be eligible for financial bid opening.

2.5.d. The firms qualifying in technical evaluation will be informed.

2.5.e. The bid evaluation committee shall have full powers to undertake negotiations if any.

2.5.f. Tendering authority’s Right to accept/reject any or all of the Bids: The tendering authority reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the bidders.

2.5.g. Price/purchase preference in evaluation: Price and/or purchase preference notified by the State Government shall be considered in the evaluation of bids and award of contract.

2.6. Evaluation of Financial Bids

2.6.a. The Financial bids/covers or bidders who qualify in technical evaluation shall be opened ONLINE at the notified time, date and place in the presence of the bidders or their representatives who choose to be present. Alternatively, the bidders may also view the financial bid opening status/process online on e-proc website.

2.6.b. The process of opening of financial bids/covers shall be similar to that of technical bids.

2.6.c. Acceptance of the Tender/Bid:

- ☐ The tendering authority shall award the contract to the bidder whose proposal/bid has been determined to be the lowest value bid.
- ☐ As soon as a bid is accepted by the tendering authority, its written intimation (LOA) would be sent to the concerned bidder asking to execute an agreement.
- ☐ The acceptance of an offer is complete as soon as the letter of communication is posted to the last notified address/correct address of the bidder(s).
- ☐ The acceptance of the bid shall also be placed on website of www.mlsu.ac.in

2.7. The rates once finalized will not be enhance/ reduced during the currency of contract. In case of foreign currency, conversion rates in INR will be taken on that day when financial bid will open.

2.8. In case the rates quoted by the tenderers are very high or do not suit to the University the negotiation may be undertaken for reducing the quoted rates.

2.9. Merely quoting of lowest rates does not mean that order shall be given to that firm. The purchase committee /competent authority will finally decide on the basis of quality and performance of past installations.

2.10 Approved tenderer will have to execute an agreement in prescribed format on a non-judicial stamp of Rs. 0.25% of the order value at his own cost within 15 days from receipt of the order along with security money.

2.11 Prices of Optional items will be considered for price evaluation of bids.

3. EMD

3.1 The Tenderer should submit an EMD amount through RTGS/NEFT. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful tenderers after the award of contract.

3.2 In case of successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the EMD / security deposited would be forfeited.

4. Refund of EMD:

The EMD will be returned to unsuccessful tenderers only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful, complete installation of the equipment and receipt of performance security.

5. Acceptance/ Rejection of bids: The Institute reserves the all right to reject any bid not fulfilling the eligibility criteria.

6. Eligibility Criteria:

6.1 Tenderer should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) specific to the tender should be enclosed.

6.2 An undertaking from the OEM is required stating that they would facilitate the tenderer on a regular basis with technology/product updates and extend support for the warranty as well. (Ref. Annexure-II)

6.3 OEM should be internationally reputed company.

6.4 Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between tenderer specification and supporting documents etc. may lead to rejection of the bid.

6.5 In the 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.

6.6 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.

7. Performance Bank Guarantee:

The firm, to whom the tender will be awarded, will have to deposit the performance bank guarantee (Annexure-IV) equal to 2.5% of total amount at the time of installation of equipment. If services are not found to be satisfactory, the performance security liable to be forfeited. No interest will be paid on performance security.

8. Force Majeure:

The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

8.1 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

8.2 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

9. Risk Purchase Clause:

In event of failure of supply of the item/equipment within the stipulated delivery schedule, the Purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

10. Packing Instructions:

Each package will be marked on three sides with proper paint/indelible ink, the following:

- ☐ Item Nomenclature
- ☐ Order/Contract No.
- ☐ Country of Origin of Goods
- ☐ Supplier's Name and Address
- ☐ Consignee details
- ☐ Packing list reference number

11. Delivery and Documents:

Delivery of the goods should be made within 06 months from the date of placement of purchase order. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e-mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

- ☐ Four Copies of the Supplier invoice showing contract number, goods' description, quantity.
- ☐ Unit price and total amount.
- ☐ Insurance Certificate if applicable.
- ☐ Manufacturer's/Supplier's warranty certificate.
- ☐ Inspection Certificate issued by the nominated inspection agency, if any.
- ☐ Supplier's factory inspection report.
- ☐ Certificate of Origin (if possible by the beneficiary).
- ☐ Two copies of the packing list identifying the contents of each package.
- ☐ The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

12. Liquidated Damages (L.D):

If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier. The L.D charges can be increased in case of gross violation of the purchase order terms as decided by the Comptroller of the Institute.

Delay upto 1/4th of the time period of supply: 2.5%
Delay 1/4th and above but less than ½ of supply period: 5%
Delay ½ and above but less than 3/4th of the supply period: 7.5%
Delay more than 3/4th of the time period of supply: 10%

13. Prices:

The final price should be inclusive of all charges including of all taxes and FOR to Department of Environmental Sciences, Vigyan Bhawan, Block-B, University Campus, Mohanlal Sukhadia University, Udaipur. The vender should deliver the instrument in the premises of the Department of Environmental Sciences, University Campus, Mohanlal Sukhadia University, Udaipur. For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

14. Progress of Supply:

Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:

- 14.1. Quantity offered for inspection and date;
- 14.2. Quantity accepted/rejected by inspecting agency and date;
- 14.3. Quantity dispatched/delivered to consignees and date;
- 14.4. Quantity where incidental services have been satisfactorily completed with date;
- 14.5. Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date;
- 14.6. Date of completion of entire Contract including incidental services, if any; and
- 14.7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).

15. Resolution of Disputes:

The dispute resolution mechanism would be as follows:

- 15.1. In case of dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Comptroller, MLSU, Udaipur and if he is unable or unwilling to act, the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
- 15.2. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause above. But if this is not acceptable

to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

15.3 The venue of the arbitration shall be the place from where the order is issued.

16. Applicable Law:

The place of jurisdiction would be Rajasthan.

17. Right to Use Defective Goods:

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the purchaser's operation.

18. Transfer and Subletting:

The supplier shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

19. Supplier Integrity:

The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract (annexure-VI) using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

20. Installation & Demonstration:

20.1. The supplier is required to do the installation and demonstration of the equipment within two weeks of the arrival of materials at the Mohanlal Sukhadia University, site of installation; otherwise the penalty clause will be the same as per the supply of materials.

20.2. In case of any damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Mohanlal Sukhadia University, will not be liable to any type of losses in any form.

21. Insurance:

For delivery of goods at the purchaser's premises, the insurance shall be obtained by the supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

22. Warranty:

22.1. Warranty period shall be (as stated in "technical specifications" of this tender) from date of installation of Goods at Mohanlal Sukhadia University, Udaipur. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site.

22.2. The Purchaser shall promptly notify the supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall arrange to repair or replace the defective goods or parts within 15 days free of cost in Mohanlal Sukhadia University. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 15 days. If the supplier having been notified fails to remedy the defects within 15 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

23. AMC: After the warranty period is over, annual maintenance contract (AMC) if required vendor will be contacted. The AMC charges will not be included in computing the total cost of the equipment. Tenderer must specify the terms and condition applicable for AMC.

24. Governing Language:

The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.

25. Duties:

Mohanlal Sukhadia University is exempted from paying custom duty under notification No.51/96 and necessary "Custom Duty Exemption Certificate" can be issued after providing following

information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, no certificate will be issued to third party:

25.1. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)

25.2 Forwarder details i.e. Name, Contact No., etc.

26. Payment:

26.1 For imported items payment will be made through irrevocable Letter of Credit (LC). Letter of Credit (LC) will be established in favour of foreign Supplier after the submission of performance security. The letter of credit (LC) will be established on the exchange rates in INR will be taken on that day when financial bid will open. For Imports, LC will be opened for 100% FOB/CIF value. 90% of the LC amount shall be released on presentation of complete and clear shipping documents and 10% of the LC amount shall be released after the installation and demonstration of the equipment at the Mohanlal Sukhadia University, site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation.

26.2 All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.

27. User list:

Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided (Ref. Annexure-III).

28. Site Preparation:

The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier may visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

29. Spare Parts:

The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier. Such spare parts as

the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract. In the event of termination of production of the spare parts; Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.

30. Defective Equipment: If any of the equipment supplied by the Supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Supplier with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 30 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, Mohanlal Sukhadia University may consider "Banning" the supplier.

31. Termination for Default:

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- ☐ If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser.
- ☐ If the Supplier fails to perform any other obligation(s) under the Contract.
- ☐ If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this Clause:
“Corrupt practice” means the offering, giving, receiving or soliciting 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 of facts in order to influence a procurement process or the execution of a contract to the detriment of the borrower, and includes collusive practice among Tenderer (prior to or after bid submission) designed to establish bid prices at

artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

- ☐ In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

32. Downtime:

- ☐ During the warranty period, not more than 2% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 1% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.
- ☐ Supplier should clearly mention about their service set up in India (preferably in Northern part of India) for prompt service support along with contact details of service engineers specially trained on the offered system.
- ☐ In case of machine remain non-operational due to probe breakdown the supplier must arrange alternative probe for the repair time.

33. Training of Personnel:

The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment as per Annexure VII.

34. Compliancy certificate:

This certificate must be provided indicating conformity to the technical specifications. (Annexure-I)

35. Award of Contract:

Mohanlal Sukhadia University shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid based on the Grand Total calculated of all items + taxes etc. of the Price Bids. However, Mohanlal Sukhadia University reserves the right and has sole discretion to reject the lowest evaluated bid.

If more than one bidder happens to quote the same lowest price, Mohanlal Sukhadia University reserves the right to decide the criteria and further process for awarding the contract, decision of Mohanlal Sukhadia University shall be final for awarding the contract.

36. Additional Points:

If the ITEMS supplied by the Bidder fail during the warranty period, the supplier is required to repair/replace faulty devices or components. If the ITEMS show frequent failure and requires frequent repair during warranty period, the supplier is required to replace the system free of cost.

Note: This is to be ensured by the firm that purchase order of the same model supplied in the Govt. organization/University/institution should be provided while submitting the bid. In case bidder fail to provide the purchase order of the same model supplied in the Govt. organization/University/institution, then bid may be cancelled on the technical ground.



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

ANNEXURE-I

COMPLIANCE SHEET: TECHNICAL SPECIFICATION

To: Head, Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur, 313001

Name of Supply: Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector

Quantity: 1 Nos

Name of Supplier:

(The Bidder must write Yes/No against each specification of the equipment. Any deviation may be mentioned explicitly)

TECHNICAL SPECIFICATIONS

| Item Name and Specifications | Quantity | Compliance (Yes/No) | Deviation, if any |
|---|----------|------------------------|----------------------|
| Item: Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector Specifications (a) Gas Chromatography Triple Quadrupole Mass Spectrometer: <ul style="list-style-type: none">Gas Chromatograph coupled with Triple Quadrupole Mass Spectrometer with Auto sampler, FID & TCD.GCMS should have touchscreen display.EPC resolution of 0.001 psi with facility of retention time locking facility or retention time alignment or retention time adjustment or automatic adjustment of retention time.The GC/MS/MS system should be fully automated with single point software control for accurate control of pressure/flow setting of inlets and detectors and the model quoted should be of latest configuration by the reputed company.The Triple Quadrupole GCMSMS system must offer superior sensitivity and robustness, fast | | | |

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| <p>easy methods development for multi-component quantification.</p> <ul style="list-style-type: none"> • The system should be upgradable for minimum detection limit, second inlet as well as headspace sampler, if require in future. • All the necessary accessories, consumables, software etc. should be quoted. • A certificate of the principals to be included stating the instrument spares and service will be available 7years after the supply. • GC transfer line temperature should be up to 350° C or better • GC should have one capillary column for pesticide analysis. • Provision to use of capillary columns with different internal diameter, film thickness and length. • Instrument should have column replacement facility without breaking the vacuum. • Instrument should be quoted with suitable probe which can do liquid and solid sample analysis without sample preparation. • Should be able to use of helium and hydrogen as a carrier gas. <p>(b) GC Column Oven:</p> <ul style="list-style-type: none"> • Temp. Range: Ambient +4°C to 450°C • Ramp Rate: 120°C/min or more • Cooling rate: 450°C to 50°C in 4 min or better • Number of ramps/plateaus: 20/21 or more • Should be able to accommodate two injectors & two capillary columns <p>(c) Injector (One):</p> <p>GC should be supplied with Programmable Vaporizer Injector (PTV/MMI) with following specification:</p> <ul style="list-style-type: none"> • Supports hot/cold split and split less modes. • Temperature range: up to 450°C | | | |
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| <ul style="list-style-type: none"> • Temperature programming of up to 3 rams at up to 250°C/min or better • Pressure setting range: 0-100 psi or better • EPC resolution of 0.001 psi • Retention time locking facility/ Retention time alignment or automatic adjustment of retention time. • The injector should permit large volume split less injection (up to 50 microliters) without requiring pressure pulse to quantitatively recover the whole sample, and without any further hardware requirement. <p>(d) Auto Sampler (One)</p> <ul style="list-style-type: none"> • Vial: 16 vials or more • Vial capacity: 2 ml • Sample injection capability: Minimum 0.01 to 10 µl. • Manual injection should be possible without any difficulty. <p>(e) Flame Ionization Detector</p> <ul style="list-style-type: none"> • Minimum detection level of 1.2 Pg C/sec or better • Temperature: 450°C or better • FID - Data acquisition rate: up to 300 Hz or better • The system should have one FID detector with the Flame ionization detector cleaning kit • FID - Dynamic range of FID: $> 10^7$ or better • Should also include reamers, wire mini brushes, handle • Full range digital data path enable peak to be quantified over the entire 10^7 concentration range in single run • All gases flow should be adjustable/controlled by software only <p>(f) Thermal Conductivity Detector (TCD)</p> <ul style="list-style-type: none"> • Capillary column optimized (micro TCD), compatible with 1/8" and 1/16" packed column | | | |
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| <ul style="list-style-type: none"> • Maximum temperature: 400 °C settable in 0.1 °C steps • Minimum Detection Limit: <400 pg tridecane/mL with helium carrier or equivalent • Linear dynamic range: 10⁵ <p>(g) MS-MS System:</p> <ul style="list-style-type: none"> • Electron energy range: 0-150 eV or more • Emission Current: up to 350 µA or more • Collision Energy Range: 0–60 eV or more • Mass Range: 10 to 1050 amu or better • Resolution: Automatic tuning down to 0.4µ or better. • Mass analyzer should have heated off axis ion guide for noise reduction or heated Quadrupole or better technology. • Quadrupole rods should have solid, homogenous non-coated or gold coated and cleanable or better. • Mass axis stability: ±0.1 amu over 24 hours or better <p>(h) Detector:</p> <ul style="list-style-type: none"> • Detection system, with off-axis 10 kV dynode, discrete dynode electron multiplier and electrometer or better. • Linear range: >10⁶ <p>(i) Ion Source:</p> <ul style="list-style-type: none"> • Ionization Modes: Electron Ionization (EI) • Source temperature: Programmable to 350 °C or more • It should have integrated, dual filament for EI with improved filament lifetime. <p>(j) Scan Mode:</p> <ul style="list-style-type: none"> • Scan Mode MS: Should have Full scan, Selected Ion Monitoring (SIM), combined full scan/SIM | | | |
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| <ul style="list-style-type: none"> • Scan Mode MS/MS: Should have Multiple/Selected Reaction Monitoring (MRM/SRM), combined full scan/SRM, product ion scan and Neutral loss modes • Scan rate: 20,000 amu/s or better • MRM/SRM Scan Speed: 800 transition / second or better • Dwell timefor SRM/MRM transition: 0.5 msec. or better <p>(k) Sensitivity Specifications:</p> <ul style="list-style-type: none"> • Electron Ionization SRM/MRM <ul style="list-style-type: none"> ○ 1 µL of 100 fg/µL octa fluoro naphthalene (OFN) will produce the following minimum signal-to-noise for the transition from m/z 272 to m/z 222: 6000:1 or better • Electron Ionization Full Scan <ul style="list-style-type: none"> ○ 1 µL of 1 pg/µL OFN will produce the following minimum signal-to-noise for m/z 272 when scanning from 50–300 u: 1,500:1 or better • Guaranteed IDL specification at our site <ul style="list-style-type: none"> ○ Instrument Detection Limit: Instrument detection limit on OFN should be 4fg or better with the injection of 1ul of 10fg/ul OFN standard. ○ Vendor need to demonstrate IDL at the time of installation, so reference specs are not acceptable <p>(l) Vacuum System</p> <ul style="list-style-type: none"> • It should have a high capacity (>250 L/s), dual-stage turbomolecular pump or better • It should have standard rotary-vane pump <p>(m) Pneumatic controls</p> <ul style="list-style-type: none"> • Electronic pneumatic controls for injector and detector modules. The electronics carrier gas controller should allow operating in constant and programmed flow and pressure modes. • Pressure range: 0–100 psi or more • Split ratio: Up to 8000:1 or more • Pressure set points minimum increments: 0.01 kPa-0.001 psi in all ranges | | | |
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| <ul style="list-style-type: none"> • Total Flow Setting: <ul style="list-style-type: none"> ○ Control of split flow in 1 mL/min from 0 to 1250 mL/min or more ○ Purge flow from 0 to 50 mL/min or more • (n) GC Analytical Performance: <ul style="list-style-type: none"> • Retention Time Repeatability of <0.0008min. • Typical Peak Area Repeatability: <1% RSD or better • (o) Data System Software with Workstation <ul style="list-style-type: none"> • GC and MS system should be integrated with the same work station for simultaneous setting programming and user friendly operation • It should have a software for controlling GCMS/MS, Liquid & and acquiring data from Mass and conventional detectors • Chromatography Workstation: Software & Data Acquisition are the part of Workstation • Fully automated data acquiring & processing software should be quoted with catalogue number. • Provision to optimize MS parameters automatically (auto tune) or manually through tuning programs and print an Auto tune report • Provision to view the real-time plot chromatograms and instrument parameters (GC, MS and FID) and print a real-time plot report • The latest version of the NIST2020 & Wiley MS original Library software with part number should be quoted • Pesticides MRM database should be supplied. <ul style="list-style-type: none"> • The software should have all models of scanning and quantification tools of both the detectors • Tool kit for routine maintenance of GC and MS, with all necessary cleaning and maintenance material | | | |
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| <ul style="list-style-type: none"> • It should have easy automatic method development feature • All the necessary calibrants of GC-MS to be provided along with the instrument • On-site operation and application training for users • All the documents, including operation, maintenance and service manual with circuit diagrams should be provided <p>(p) Consumables with OEM part numbers:</p> <ul style="list-style-type: none"> • Autosampler vials (complete set)- 500 nos. • Graphite/Vespel ferrule for 0.25ID Column: Qty 10 • Graphite/Vespel ferrule for 0.32ID Column: Qty 10 • Test mix for GC-MS/MS • Injector Septa: Qty 50 • 2ml Vials with caps & septas: Qty 50 • Capillary Column nut for S/SL Injector: Qty 5 • Liner for S/SL Injector: Qty 5 • Liner Sealing Ring for S/SL Injector: Qty 10 • Screw top vial with cap & septa 2ml size: Qty 1000 • Crimp top vial with cap & septa 20/22ml size: Qty 1000 • Vacuum Pump Oil- 1ltrs • Filament for MS: Qty 2 • Inlet seals & O-rings • Mass Tuning/Calibration Solution: Qty 1 • Syringe 10ul capacity: Qty 2 • Autosampler liquid syringes- 2 nos. • Gas tight syringe for manual injection- 1 • Auto sampler liquid syringes – 2 nos. | | | |
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| <ul style="list-style-type: none"> • Deactivated glass wool • DB-5MS or equivalent column of 30 mtrs, 0.25 mm id, 0.25 µm film • Necessary tool kit for routine maintenance of GC-MS/MS – 1 No. <ul style="list-style-type: none"> • R- alkane or any other reference standard (100 Nos.), if required for retention time alignment or adjustment of retention time. <p>(q) Accessories:</p> <ul style="list-style-type: none"> • High Purity Helium Gas filled cylinder: Qty 1 • High Purity Argon Gas filled cylinder: Qty 1 if required • High Purity Hydrogen Gas filled cylinder: Qty 1 • High Purity Nitrogen Gas filled cylinder: Qty 1 • High Purity Zero Air Gas filled cylinder: Qty 1 • Double Stage SS Diaphragm Regulator for Helium, Argon, Hydrogen, Zero Air and Nitrogen each: Qty 1 • Gas Purification Panel for All gases • Vendor has to ensure the supply of Helium Carrier Gas free of cost for a period of minimum 3 Years from the date of installation with a condition that refilling will be provided once in a year at least. <p>(r) Computer & Printer:</p> <ul style="list-style-type: none"> • Suitable PC of a reputed brand with latest configuration (i5 processor, 1 TB or more HDD, 8 GB RAM or more) and 21” or more LCD/LED monitor along with latest laser printer– (One set) OR Suitable PC which should directly come from factory along with preloaded original compatible software and separate data processing unit with Mac OS <p>(s) UPS:</p> <ul style="list-style-type: none"> • Compatible 10KVA Online UPS batteries with 30 minutes back-up, <p>(t) Warranty:</p> | | | |
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| <ul style="list-style-type: none"> • 03 Years Warranty <p>Note:</p> <ol style="list-style-type: none"> 1. Purchase should be FOR- Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur, Rajasthan. 2. A list of references in India, where similar systems have been installed must be provided and this will be taken very seriously while making the decision 3. Demonstration: The supplier should arrange demonstration of the offered instrument in India. Falling to demonstrate the instrument capability as per buyer requirement may lead the disqualification in respect of technical bid | | | |
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Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

**ANNEXURE-II
<< Organization Letter Head >>
DECLARATION SHEET**

We, _____ hereby certify that all the information and data furnished by our organization with regard to these tender specifications are true and complete to the best of our knowledge. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

I/We hereby unconditionally accept the tender conditions of above-mentioned tender document(s)/corrigendum(s) in its totality/entirety.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

We, further specifically certify that our organization has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

The prices quoted in the financial bids are subsidized due to academic discount given to Mohanlal Sukhadia University -Udaipur.

| | |
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| Name & Address of The Vendor/ Manufacturer / Agent | |
| Phone | |
| Fax | |
| E-mail | |
| Contact Person Name | |
| Mobile Number | |
| TIN Number | |
| PAN Number | |
| (In case of on-line payment of Tender Fees) UTR No. (For Tender Fee) | |
| (In case of on-line payment of EMD) UTR No. (For EMD) | |
| Other Details | |

(Signature of the Tenderer)

Name:

Seal of the Company



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

**ANNEXURE-III
<< Organization Letter Head >>**

LIST OF ORGANIZATION/ DEPARTMENT.

List of organizations for whom the Tenderer has undertaken such work during last three years (must be supported with work orders)

| Sr. No. | Name of the Organization | Name of Contact Person | Contact No. |
|----------------|---------------------------------|-------------------------------|--------------------|
| | | | |

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

| Sr. No. | Name of the Organization | Name of Contact Person | Contact No. |
|----------------|---------------------------------|-------------------------------|--------------------|
| | | | |

Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

ANNEXURE- IV

FORMAT FOR PERFORMANCE BANK GUARANTEE

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT UDAIPUR OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT UDAIPUR OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT UDAIPUR. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,

Mohanlal Sukhadia University
Udaipur-313001
India

LETTER OF GUARANTEE

WHEREAS Mohanlal Sukhadia University (Buyer) have invited Tenders vide Tender No.....dated..... for purchase of and whereas the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment /machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **“Mohanlal Sukhadia University, Udaipur”** in the form of Bank Guarantee for Rs and valid till **three years** from the date of issue of Performance Bank Guarantee may be submitted within 21 (Twenty-One) days from the date of acceptance as a successful tenderer.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this bank shall pay to Mohanlal Sukhadia University on demand and without protest or demur Rs (Rupees.....).

This bank further agrees that the decision of Mohanlal Sukhadia University, Udaipur (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Mohanlal Sukhadia University, Udaipur (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs. (Indian Rupees only).
2. This Bank Guarantee shall be valid up to (date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if institute serve upon us a written claim or demand on or before(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

ANNEXURE-V

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

The Head

Department of Environmental Sciences

Mohanlal Sukhadia University, Udaipur

Udaipur-313001

Sub: Authorization for release of payment / dues from Mohanlal Sukhadia University, Udaipur through Electronic Fund Transfer/RTGS Transfer.

1. Name of the Party/Firm/Company/Institute:
2. Address of the Party:
3. Particulars of Bank

| | | | |
|----------------|---------|-------------|-------------|
| Bank Name | | Branch Name | |
| Branch Place | | Branch City | |
| PIN Code | | Branch Code | |
| MICR Code | | IFS Code | |
| Account Type | Savings | Current | Cash Credit |
| Account Number | | | |
| Account Name | | | |

*Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Registrar, Mohanlal Sukhadia University, Udaipur responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date: _____

Signature of the Authorized Official from the Bank

N.B: Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable.



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

ANNEXURE VI

(to be printed on Supplier's letterhead)

INTEGRITY PACT

General

This pre-bid pre-contract Agreement hereinafter called the Integrity Pact is made on.....
Day of the month of , between, on one hand, the Governor of Rajasthan acting through Registrar, Mohanlal Sukhadia University, Udaipur-313001 hereinafter called the “BUYER” of the first part and M/s..... represented by Shri..... , Director /Chief Executive Officer/ General Manager hereinafter called the “TENDERER/Seller” of the second part. WHEREAS the BUYER proposes to procure..... (Name of the Stores/Equipment/Item) and the TENDERER/Seller is willing to offer/has offered the stores and WHEREAS the TENDERER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is an Autonomous Body/Department of the Government of India performing its functions on behalf of the President of India.

NOW, THEREFORE, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling Tenderer to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. Commitments of the BUYER:

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the TENDERER, either for themselves or for any person, organization or third party related to the

contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.

1.2 The BUYER will, during the pre-contract stage, treat all Tenderer alike, and will provide to all tenderer the same information and will not provide any such information to any particular TENDERER which could afford an advantage to that particular TENDERER in comparison to other Tenderer.

1.3 All the officials of the Buyer will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

1.4 In case any such preceding misconduct on the part of such official (s) is reported by the TENDERER to the BUYER, with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

2. Commitments of TENDERER:

The TENDERER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

2.1 The TENDERER will not offer, directly or through intermediaries, any bribe, consideration, gift, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.

2.2 The TENDERER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government.

2.3 Tenderer shall disclose the name and address of agents and representatives and Indian Tenderer shall disclose their foreign principals or associates.

2.4 Tenderer shall disclose the payments to be made by them to agents / brokers or any other intermediary, in connection with this bid/contract.

2.5 The TENDERER further confirms and declares to the BUYER that the TENDERER is the original manufacturer/ integrator/ authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER, or any of its functionaries, whether officially or unofficially to the award of the contract to the TENDERER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

2.6 The TENDERER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

2.7 The TENDERER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

2.8 The TENDERER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

2.9 The TENDERER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The TENDERER also undertakes to exercise due and adequate care lest any such information is divulged.

2.10 The TENDERER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

2.11 The TENDERER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

2.12 If the TENDERER or any employee of the TENDERER or any person acting on behalf of the TENDERER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the

TENDERER's firm, the same shall be disclosed by the TENDERER at the time of filing of tender. The term relative for this purpose would be as defined in Section 6 of the Companies Act 1956.

2.13 The TENDERER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

3. Previous Transgression

3.1 The TENDERER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify TENDERER's exclusion from the tender process

3.2 The TENDERER agrees that if it makes incorrect statement on this subject, TENDERER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

4. Earnest Money Deposit

4.1 While submitting bid, the TENDERER shall deposit an amount mentioned in tender document as Earnest Money, with the University through the following instruments:

4.1.1 The tenderer should submit an EMD amount through NEFT/RTGS. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful tenderer after the award of contract.

4.2 No interest shall be payable by the BUYER to the TENDERER on Earnest Money for the period of its currency.

4.3 In case of successful TENDERER, EMD will be returned within 30 days from the date of submission of Performance Bank Guarantee.

5. SECURITY DEPOSIT /PERFORMANCE GUARANTEE:

5.1 Performance Bank Guarantee is mandatory.

5.2 Successful tenderer should submit performance guarantee as prescribed above to be received in the **Head, Department of Environmental Sciences, Mohanlal Sukhadia University Udaipur** at the time of installation. The performance bank guarantee to be furnished in the form of Bank Guarantee as per security of the tender documents, for an amount covering 2.5% of the purchase order value.

5.3 The Performance Bank Guarantee should be established in favour of **Head, Department of Environmental Sciences, Mohanlal Sukhadia University** through any Bank situated at Udaipur or outstation with a clause to enforce the same on their local branch at Udaipur. Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful tenderer and the purchaser under the terms and conditions of acceptance to tender.

5.4 The successful tenderer is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the terms and conditions and specification and all other documents referred to in the acceptance of tender.

5.5 The performance bank guarantee shall be kept valid during the period of contract and shall continue to be enforceable for a period of two years from the date of order acknowledgement.

6. Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the TENDERER or any one employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER) shall entitle the BUYER to take all or any one of the following actions, wherever required:

6.1.1 To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the TENDERER. However, the proceedings with the other TENDERER(s) would continue.

6.1.2 The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

6.1.3 To immediately cancel the contract, if already signed without giving any compensation to the TENDERER.

6.1.4 To recover all sums already paid by the BUYER, and in case of an Indian TENDERER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a TENDERER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the TENDERER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

6.1.5 To encash the advance bank guarantee and performance guarantee/warranty bond, if furnished by the TENDERER, in order to recover the payments, already made by the BUYER, along with interest.

6.1.6 To cancel all or any other contracts with the TENDERER. The TENDERER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the TENDERER.

6.1.7 To debar the TENDERER from participating in future bidding processes of the Government of India for a minimum period of two years, which may be further extended at the discretion of the BUYER.

6.1.8 To recover all sums paid in violation of this pact by the TENDERER(s) to any middleman or agent or broker with a view to securing the contract.

6.1.9 In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the TENDERER, the same shall not be opened.

6.1.10 Forfeiture of Performance Bank Guarantee in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1.1 to 6.1.10 of this Pact also on the Commission by the TENDERER or any one employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the TENDERER shall be final and conclusive on the TENDERER. However, the TENDERER can approach the independent monitor(s) appointed for the purposes of this pact.

7. Fall Clause

The TENDERER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/system or subsystem was supplied by the TENDERER to any other Ministry/Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the TENDERER to the BUYER, if the contract has already been concluded.

8. Facilitation of Investigation

In case of any allegation of violation of any provisions of this pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the TENDERER and the TENDERER shall provide necessary information & documents in English and shall extend all possible help for the purpose of such examination.

9. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and Jurisdiction is the Seat of the BUYER.

10. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

11. Validity

11.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 3 years or the complete execution of the contract to the satisfaction of both the BUYER and the TENDERER/ Seller, including warranty period, whichever is later. In case TENDERER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2 Should one or several provisions of this pact turn out to be invalid, the remainder of this pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact.

BUYER

TENDERER

Signature with seal

Mohanlal Sukhadia University, Udaipur

Date & Place:

Date & Place:

Witness

Witness

1. _____

1. _____

(Indenter)



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

BID SUBMISSION

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in **Three** Envelops as explained below:-

| Envelope – 1 | | | |
|---|---------------|--|------------|
| (Following documents to be provided as single PDF file) | | | |
| Sl. No. | Documents | Content | File Types |
| 1. | Fee Documents | NEFT/RTGS/UTR No and Date/Bank Details Bid Fess RISL Processing Fee EMD Details etc. | .PDF |
| Envelope – 2 | | | |
| (Following documents to be provided as single PDF file) | | | |
| Sl. No. | Documents | Content | File Types |
| 1. | Technical Bid | Compliance Sheet as per Annexure – I | .PDF |
| 2. | | Organization Declaration Sheet as per Annexure – II | .PDF |
| 3. | | List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III) | .PDF |
| 4. | | Format For Performance Bank Guarantee (Annexure IV) | .PDF |
| 5. | | Mandate Form for Electronic Fund Transfer/RTGS Transfer (Annexure V) | .PDF |
| 6. | | Integrity Pact (Annexure VI) | .PDF |
| 7. | | Technical supporting documents in support of all claims made at Annexure-I | .PDF |
| Envelope – 3 | | | |
| Sl. No. | TYPES | Content | File Type |
| 1. | Financial Bid | Price bid Annexure-VIIIA | BOQ |
| 2. | | Annexure-VIIIB | BOQ |
| 3. | | Financial Bid Documents | .PDF |



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

AGREEMENT

(To be executed on a non-judicial stamp)

An agreement made thisday of
between.....hereinafter
called as „the Supplier“), which expression shall, where the context so admits, be deemed to include his
heirs successors, executors and administrators of the one part and the Head, Department of
Environmental Sciences, Mohanlal Sukhadia University Udaipur herein after called „the Procuring Entity'
which expression shall, where the context so admits, be deemed to include his successors in office and
assigns, of the other part.

WHEREAS the Procuring Entity invites Bids for certain Goods and Related Services ,viz.

.....
and has accepted a Bid by the Supplier for the supply of those Goods and Related Services for the sum
of.....(Amount in figures and words)
(Here in after the Contract Price).

NOW THIS AGREEMENT WITNESSTH ASFOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively
assigned to them in the Contract referred to.
2. The following documents shall be deemed to form and be read and construed as a part of this
Agreement, viz.
 - (a) The Procuring Entity's Notification to the Supplier of Award of Contract;
 - (b) The Bid Submission Sheet and the Price Schedule including negotiated price, if any,
submitted by the Supplier;
 - (c) The Special Conditions of the Contract;
 - (d) The General Conditions of Contract;
 - (e) The Schedule of Supply;
 - (f) Instructions to Bidders;
 - (g) The Notice Inviting Bids

In the event of any discrepancy or inconsistency within the Contract, the documents shall
prevail in the order listed above

3. In consideration to the payments to be made by the Procuring Entity to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Procuring Entity to provide the Goods and Related Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Supplier in consideration of the provision of the Goods and Related Services and the remedying of the defects therein, the Contract Price or such other sum as may become payable under the Provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Central and the State Government on the day, month and year first mentioned herein before.

Witness 1

Signed by:

(for the Supplier)

Name

Designation.....

Address

.....

Witness 2

Signed by:

(for the Procuring Entity)

Name

Designation.....

Address

.....



DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: rusaenvsc@gmail.com

ANNEXURE -VII

Training Requirement

| | | |
|----|---------------------|---|
| 1. | Product Description | Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector |
| 2. | No of Attendees | 30 |
| 3. | No. of Days | 1-2 weeks |
| 4. | Type of Training | a. Operational Training |
| | | b. End User Training |
| | | c. Maintenance Training |

TENDERER
Signature with seal



DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: rusaenvsc@gmail.com

Annexure-VIII-A

Date:

Subject: Purchase of <Item> (Following format is used for imported items)

| S. No. | Currency | Description and Specification of the Item | Qty. in Units | Unit Price (a) | Agency Commission (If applicable) (b) | Discount (c) | Ex-works price (d=a+b-c) | Packing + Handling + DOC + Inland Freight + FCA Charges (e) | FOB/FCAAi rport Price (f=d+e) | Insurance + Freight (g) | CIF Price (f+g) |
|--------|----------|---|---------------|-------------------|--|-----------------|-----------------------------|---|----------------------------------|----------------------------|--------------------|
| 1 | | | | | | | | | | | |

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the material to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.

Authorised Signature (With Seal)



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: rusaenvsc@gmail.com

Annexure-VIII-B

For indigenous items please quote as per following format.

| S. No. | Description and Specification of the Item | Qty. in Units | Unit Price in Rs. | GST% | Total Price in Rs. |
|--------|---|---------------|-------------------|------|--------------------|
| 1. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender

Authorised Signature (With Seal)



DEPARTMENT OF ENVIRONMENTAL SCIENCES
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: rusaenvsc@gmail.com

FINACIAL BID FORM (Please submit in PDF item wise rate)

To: Head, Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur - 313001

Name of Supply: Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector

Quantity: 1 Nos

Name of Supplier:

| S No. | Item Name and Specifications | Quantity | Rate per unit including all cost (F.O.R., Udaipur) Including all taxes and Other Charges, custom duty and/or any other tax but <u>excluding GST</u> (A) | Current rate of 18 %GST, If applicable (B) | Total In Rs (A+B) |
|-------|---|----------|--|--|-------------------|
| 1. | Item: Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector Specifications Gas Chromatography Triple Quadrupole Mass Spectrometer: <ul style="list-style-type: none">Gas Chromatograph coupled with Triple Quadrupole Mass Spectrometer with Auto sampler, FID & TCD.GCMS should have touchscreen display.EPC resolution of 0.001 psi with facility of retention time locking facility or retention time alignment or retention time adjustment or automatic adjustment of | | | | |

| | | | | | |
|--|---|--|--|--|--|
| | <p>retention time.</p> <ul style="list-style-type: none"> • The GC/MS/MS system should be fully automated with single point software control for accurate control of pressure/flow setting of inlets and detectors and the model quoted should be of latest configuration by the reputed company. • The Triple Quadrupole GCMSMS system must offer superior sensitivity and robustness, fast easy methods development for multi-component quantification. • The system should be upgradable for minimum detection limit, second inlet as well as headspace sampler, if require in future. • All the necessary accessories, consumables, software etc. should be quoted. • A certificate of the principals to be included stating the instrument spares and service will be available 7years after the supply. • GC transfer line temperature should be up to 350° C or better • GC should have one capillary column for pesticide analysis. • Provision to use of capillary columns with different internal diameter, film thickness and length. • Instrument should have column replacement facility without breaking the vacuum. • Instrument should be quoted with suitable probe which can do liquid and solid sample analysis without sample | | | | |
|--|---|--|--|--|--|

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|--|---|--|--|--|--|
| | <p>preparation.</p> <ul style="list-style-type: none"> • Should be able to use of helium and hydrogen as a carrier gas. <p>(d) GC Column Oven:</p> <ul style="list-style-type: none"> • Temp. Range: Ambient +4°C to 450°C • Ramp Rate: 120°C/min or more • Cooling rate: 450°C to 50°C in 4 min or better • Number of ramps/plateaus: 20/21 or more • Should be able to accommodate two injectors & two capillary columns <p>(e) Injector (One):</p> <p>GC should be supplied with Programmable Vaporizer Injector (PTV/MMI) with following specification:</p> <ul style="list-style-type: none"> • Supports hot/cold split and split less modes. • Temperature range: up to 450°C • Temperature programming of up to 3 rams at up to 250°C/min or better • Pressure setting range: 0-100 psi or better • EPC resolution of 0.001 psi • Retention time locking facility/ Retention time alignment or automatic adjustment of retention time. • The injector should permit large volume split less injection (up to 50 microliters) without requiring pressure pulse to quantitatively recover the whole sample, and without any further hardware requirement. | | | | |
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| | <p>(u) Auto Sampler (One)</p> <ul style="list-style-type: none"> • Vial: 16 vials or more • Vial capacity: 2 ml • Sample injection capability: Minimum 0.01 to 10 µl. • Manual injection should be possible without any difficulty. <p>(v) Flame Ionization Detector</p> <ul style="list-style-type: none"> • Minimum detection level of 1.2 Pg C/sec or better • Temperature: 450°C or better • FID - Data acquisition rate: up to 300 Hz or better • The system should have one FID detector with the Flame ionization detector cleaning kit • FID - Dynamic range of FID: $> 10^7$ or better • Should also include reamers, wire mini brushes, handle • Full range digital data path enable peak to be quantified over the entire 10^7 concentration range in single run • All gases flow should be adjustable/controlled by software only <p>(w) Thermal Conductivity Detector (TCD)</p> <ul style="list-style-type: none"> • Capillary column optimized (micro TCD), compatible with 1/8" and 1/16" packed column • Maximum temperature: 400 °C settable in 0.1 °C steps • Minimum Detection Limit: <400 pg tridecane/mL with helium carrier or equivalent • Linear dynamic range: 10^5 <p>(x) MS-MS System:</p> | | | | |
|--|--|--|--|--|--|

| | | | | | |
|--|---|--|--|--|--|
| | <ul style="list-style-type: none"> • Electron energy range: 0-150 eV or more • Emission Current: up to 350 μA or more • Collision Energy Range: 0–60 eV or more • Mass Range: 10 to 1050 amu or better • Resolution: Automatic tuning down to 0.4μ or better. • Mass analyzer should have heated off axis ion guide for noise reduction or heated Quadrupole or better technology. • Quadrupole rods should have solid, homogenous non-coated or gold coated and cleanable or better. • Mass axis stability: ± 0.1 amu over 24 hours or better <p>(y) Detector:</p> <ul style="list-style-type: none"> • Detection system, with off-axis 10 kV dynode, discrete dynode electron multiplier and electrometer or better. • Linear range: $>10^6$ <p>(z) Ion Source:</p> <ul style="list-style-type: none"> • Ionization Modes: Electron Ionization (EI) • Source temperature: Programmable to 350 $^{\circ}$C or more • It should have integrated, dual filament for EI with improved filament lifetime. <p>(aa) Scan Mode:</p> <ul style="list-style-type: none"> • Scan Mode MS: Should have Full scan, Selected Ion Monitoring (SIM), combined full scan/SIM • Scan Mode MS/MS: Should have Multiple/Selected Reaction Monitoring (MRM/SRM), combined full scan/SRM, product ion scan and Neutral loss modes | | | | |
|--|---|--|--|--|--|

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| | <ul style="list-style-type: none"> • Scan rate: 20,000 amu/s or better • MRM/SRM Scan Speed: 800 transition / second or better • Dwell timefor SRM/MRM transition: 0.5 msec. or better <p>(bb) Sensitivity Specifications:</p> <ul style="list-style-type: none"> • Electron Ionization SRM/MRM <ul style="list-style-type: none"> ○ 1 µL of 100 fg/µL octa fluoro naphthalene (OFN) will produce the following minimum signal-to-noise for the transition from m/z 272 to m/z 222: 6000:1 or better • Electron Ionization Full Scan <ul style="list-style-type: none"> ○ 1 µL of 1 pg/µL OFN will produce the following minimum signal-to-noise for m/z 272 when scanning from 50–300 u: 1,500:1 or better • Guaranteed IDL specification at our site <ul style="list-style-type: none"> ○ Instrument Detection Limit: Instrument detection limit on OFN should be 4fg or better with the injection of 1ul of 10fg/ul OFN standard. ○ Vendor need to demonstrate IDL at the time of installation, so reference specs are not acceptable <p>(cc) Vacuum System</p> <ul style="list-style-type: none"> • It should have a high capacity (>250 L/s), dual-stage turbomolecular pump or better • It should have standard rotary-vane pump <p>(dd) Pneumatic controls</p> <ul style="list-style-type: none"> • Electronic pneumatic controls for injector and detector | | | | |
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| | <p>modules. The electronics carrier gas controller should allow operating in constant and programmed flow and pressure modes.</p> <ul style="list-style-type: none"> • Pressure range: 0–100 psi or more • Split ratio: Up to 8000:1 or more • Pressure set points minimum increments: 0.01 kPa-0.001 psi in all ranges • Total Flow Setting: <ul style="list-style-type: none"> ○ Control of split flow in 1 mL/min from 0 to 1250 mL/min or more ○ Purge flow from 0 to 50 mL/min or more <p>(ee) GC Analytical Performance:</p> <ul style="list-style-type: none"> • Retention Time Repeatability of <0.0008min. • Typical Peak Area Repeatability: <1% RSD or better <p>(ff) Data System Software with Workstation</p> <ul style="list-style-type: none"> • GC and MS system should be integrated with the same work station for simultaneous setting programming and user friendly operation • It should have a software for controlling GCMS/MS, Liquid & and acquiring data from Mass and conventional detectors • Chromatography Workstation: Software & Data Acquisition are the part of Workstation • Fully automated data acquiring & processing software should be quoted with catalogue number. • Provision to optimize MS parameters automatically (auto tune) or manually through tuning programs and | | | | |
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| | <p>print an Auto tune report</p> <ul style="list-style-type: none"> • Provision to view the real-time plot chromatograms and instrument parameters (GC, MS and FID) and print a real-time plot report • The latest version of the NIST2020 & Wiley MS original Library software with part number should be quoted • Pesticides MRM database should be supplied. • The software should have all models of scanning and quantification tools of both the detectors • Tool kit for routine maintenance of GC and MS, with all necessary cleaning and maintenance material • It should have easy automatic method development feature • All the necessary calibrants of GC-MS to be provided along with the instrument • On-site operation and application training for users • All the documents, including operation, maintenance and service manual with circuit diagrams should be provided <p>(gg) Consumables with OEM part numbers:</p> <ul style="list-style-type: none"> • Autosampler vials (complete set)- 500 nos. • Graphite/Vespel ferrule for 0.25ID Column: Qty 10 • Graphite/Vespel ferrule for 0.32ID Column: Qty 10 • Test mix for GC-MS/MS • Injector Septa: Qty 50 • 2ml Vials with caps & septas: Qty 50 | | | | |
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| | <ul style="list-style-type: none"> • Capillary Column nut for S/SL Injector: Qty 5 • Liner for S/SL Injector: Qty 5 • Liner Sealing Ring for S/SL Injector: Qty 10 • Screw top vial with cap & septa 2ml size: Qty 1000 • Crimp top vial with cap & septa 20/22ml size: Qty 1000 • Vacuum Pump Oil- 1ltrs • Filament for MS: Qty 2 • Inlet seals & O-rings • Mass Tuning/Calibration Solution: Qty 1 • Syringe 10ul capacity: Qty 2 • Autosampler liquid syringes- 2 nos. • Gas tight syringe for manual injection- 1 • Auto sampler liquid syringes – 2 nos. • Deactivated glass wool • DB-5MS or equivalent column of 30 mtrs, 0.25 mm id, 0.25 µm film • Necessary tool kit for routine maintenance of GC-MS/MS – 1 No. • R- alkane or any other reference standard (100 Nos.), if required for retention time alignment or adjustment of retention time. <p>(hh) Accessories:</p> <ul style="list-style-type: none"> • High Purity Helium Gas filled cylinder: Qty 1 • High Purity Argon Gas filled cylinder: Qty 1 if required • High Purity Hydrogen Gas filled cylinder: Qty 1 | | | | |
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| | <ul style="list-style-type: none"> • High Purity Nitrogen Gas filled cylinder: Qty 1 • High Purity Zero Air Gas filled cylinder: Qty 1 • Double Stage SS Diaphragm Regulator for Helium, Argon, Hydrogen, Zero Air and Nitrogen each: Qty 1 • Gas Purification Panel for All gases • Vendor has to ensure the supply of Helium Carrier Gas free of cost for a period of minimum 3 Years from the date of installation with a condition that refilling will be provided once in a year at least. <p>(ii) Computer & Printer:</p> <ul style="list-style-type: none"> • Suitable PC of a reputed brand with latest configuration (i5 processor, 1 TB or more HDD, 8 GB RAM or more) and 21” or more LCD/LED monitor along with latest laser printer– (One set) OR Suitable PC which should directly come from factory along with preloaded original compatible software and separate data processing unit with Mac OS <p>(jj) UPS:</p> <ul style="list-style-type: none"> • Compatible 10KVA Online UPS batteries with 30 minutes back-up, <p>(kk) Warranty:</p> <ul style="list-style-type: none"> • 03 Years Warranty <p>Note:</p> <ol style="list-style-type: none"> 1. Purchase should be FOR- Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur, Rajasthan. 2. A list of references in India, where similar systems | | | | |
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| | <p>have been installed must be provided and this will be taken very seriously while making the decision</p> <p>3. Demonstration: The supplier should arrange demonstration of the offered instrument in India. Falling to demonstrate the instrument capability as per buyer requirement may lead the disqualification in respect of technical bid</p> | | | | |
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Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____



Department of Environmental Sciences
Mohanlal Sukhadia University, Udaipur

E-TENDER NOTICE

F.MLSU/ES/ RUSA/E-Bid/22-23/61,62,63 Date:11-01-2023

Three (03) single stage unconditional E-Bids under Two-Cover system are invited for the procurement of Supply, Installation and Commissioning of Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID and TCD Detector, UV-VIS Spectrophotometer with accessories and Digital Bomb Calorimeter with accessories (**Total estimated cost Rs. 93.00 lakhs**) under of RUSA 2.0. The details may be seen in the Bidding Documents on the website <https://eproc.rajasthan.gov.in>, <https://sppp.rajasthan.gov.in> or University website www.mlsu.ac.in. Last Date of Bid Submission is 30-01-2023 06:00 pm

| NIB CODE | UBN NO |
|--------------|------------------|
| SUU2223A0054 | SUU2223GLOB00099 |
| SUU2223A0055 | SUU2223GSOB00100 |
| SUU2223A0056 | SUU2223GSOB00101 |

Head, Department of Environmental Sciences



Tender Details

Date : 12-Jan-2023 06:04 AM



| | | | |
|---|--|--|-----------|
| Organisation Chain | Mohan Lal Sukhadia University, Udaipur Vice - Chancellor COMPTROLLER Sr. Accounts Officer | | |
| Tender Reference Number | MLSU/ES/RUSA/E-Bid/22-23/61 | | |
| Tender ID | 2023_MLSU_314483_1 | | |
| Tender Type | Open Tender | Form of contract | Item Rate |
| Tender Category | Goods | No. of Covers | 3 |
| General Technical Evaluation Allowed | No | ItemWise Technical Evaluation Allowed | No |
| Payment Mode | Offline | Is Multi Currency Allowed For BOQ | Yes |
| Is Multi Currency Allowed For Fee | No | Allow Two Stage Bidding | No |

| Offline | S.No | Instrument Type |
|---------|------|-----------------|
| | 1 | DD |

| Cover No | Cover | Document Type | Description |
|----------|-------------------|---------------|---|
| 1 | Fee | .pdf | EMD RISL TENDER FEES DOCUMENTS |
| 2 | PreQual/Technical | .pdf | TECHNICAL BID DOCUMENTS |
| 3 | Finance | .xls | BOQ |
| | | .pdf | FINANCIAL BID DOCUMENTS |

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|-------------------------------------|---|-----------------------|---------|
| Tender Fee in ₹ | 2,000 | | |
| Processing Fee in ₹ | 1,000 | | |
| Fee Payable To | Head, Department of Environmental Sciences, MLSU | Fee Payable At | UDAIPUR |
| Tender Fee Exemption Allowed | No | | |

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| EMD Amount in ₹ | 1,60,000 | EMD through BG/ST or EMD Exemption Allowed | Yes |
| EMD Fee Type | percentage | EMD Percentage | 2.0% |
| EMD Payable To | Head, Department of Environmental Sciences, MLSU | EMD Payable At | UDAIPUR |

[Click to view modification history](#)

| S.No | Currency | Conversion rate in ₹ |
|------|---------------|----------------------|
| 1 | US Dollar | NA |
| 2 | European Euro | NA |
| 3 | Japanese Yen | NA |

| Work /Item(s) | | | | | |
|---|--|----------------------------------|-------------------------------------|------------------------------|--|
| Title | Procurement of Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler FID AND TCD Detector | | | | |
| Work Description | Procurement of Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler FID AND TCD Detector | | | | |
| Pre Qualification Details | Please refer Tender documents. | | | | |
| Independent External Monitor/Remarks | NA | | | | |
| Show Tender Value in Public Domain | Yes | | | | |
| Tender Value in ₹ | 80,00,000 | Product Category | Laboratory and scientific equipment | Sub category | NA |
| Contract Type | Tender | Bid Validity(Days) | 360 | Period Of Work(Days) | 180 |
| Location | UDAIPUR | Pincode | 313001 | Pre Bid Meeting Place | Department of Environmental Science MLSU UDAIPUR |
| Pre Bid Meeting Address | Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur | Pre Bid Meeting Date | 23-Jan-2023 11:00 AM | Bid Opening Place | Department of Environmental Sciences, MLSU |
| Should Allow NDA Tender | No | Allow Preferential Bidder | No | | |

| Critical Dates | | | |
|--|----------------------|--|----------------------|
| Publish Date | 12-Jan-2023 09:00 AM | Bid Opening Date | 31-Jan-2023 11:00 AM |
| Document Download / Sale Start Date | 12-Jan-2023 09:00 AM | Document Download / Sale End Date | 30-Jan-2023 06:00 PM |
| Clarification Start Date | 12-Jan-2023 09:00 AM | Clarification End Date | 22-Jan-2023 06:00 PM |
| Bid Submission Start Date | 12-Jan-2023 09:00 AM | Bid Submission End Date | 30-Jan-2023 06:00 PM |

| Tender Documents | | | | |
|----------------------------|-------------|----------------------|----------------------|------------------------------|
| NIT Document | S.No | Document Name | Description | Document Size (in KB) |
| | 1 | Tendernotice_1.pdf | NIT | 474.39 |
| Work Item Documents | S.No | Document Type | Document Name | Description |
| | 1 | Tender Documents | GC_MS.pdf | TENDER DOCUMENTS |
| | 2 | BOQ | BOQ_557211.xls | BOQ |

| Bid Openers List | | | |
|-------------------------|----------------------------|------------------------|-------------------------|
| S.No | Bid Opener Login Id | Bid Opener Name | Certificate Name |
| 1. | mukeshbittuveer@gmail.com | Mukesh Kumar | Mukesh Kumar |
| 2. | rjainue@mlsu.ac.in | Rakesh Jain | Rakesh Jain |
| 3. | brbamniya@yahoo.co.in | Prof B.R. Bamniya | Dr B.R.Bamniya |
| 4. | dsrathore@mlsu.ac.in | Devendra Singh Rathore | Devendra Singh Rathore |

| Tender Properties |
|--------------------------|
|--------------------------|

| | | | |
|---------------------------------------|--------|------------------------------------|-----|
| Auto Tendering Process allowed | No | Show Technical bid status | Yes |
| Show Finance bid status | Yes | Show Bids Details | Yes |
| BoQ Comparative Chart model | Normal | BoQ Compative chart decimal places | 2 |
| BoQ Comparative Chart Rank Type | L | Form Based BoQ | No |

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|---|---|
| <u>Tender Inviting Authority</u> | |
| Name | Head, Department of Environmental Sciences, MLSU |
| Address | Department of Environmental Sciences, Mohanlal Sukhadia University, Udaipur |

| | |
|--------------------------------------|----------------------|
| <u>Tender Creator Details</u> | |
| Created By | Prof B.R. Bamniya |
| Designation | Head and Professor |
| Created Date | 12-Jan-2023 05:08 AM |

| | |
|---------------------------------|--|
| Department Details: | |
| Department Name | Mohan Lal Sukhadia University, Udaipur |
| Department Type | Autonomous Body |
| Procuring Entity Name: | Mr. Mukesh Kumar |
| Procuring Entity Contact: | Email: mukeshkumar1531[at]mlsu[dot]ac[dot]in, Mobile: 9667860329 |
| Office Address: | University Administrative Office, MLSU, Udaipur, Udaipur, (Udaipur), PIN:313001, Phone No.:2470621, Fax No.: |
| | |
| NIB Details: | |
| NIB Code | SUU2223A0054 |
| NIB Reference no | MLSU/ES/RUSA/E-Bid/22-23/61 |
| NIB Publish Date | 12/01/2023 |
| NIB Published Bids | 1 / 1 |
| NIB Document |  Size 455.51 KB [English] |
| NIB Financial Year | 2022 - 2023 |
| | |
| Bid Details: | |
| UBN | SUU2223GLOB00099 |
| Bid Title | Procurement of Gas Chromatography Triple Quadrupole Mass Spectrometer with Auto Sampler, FID & TCD Detector |
| Bid Type | Goods |
| Bid Sub Type | Scientific and Laboratory Equipments |
| Bid Pattern | Open Competitive Bidding |
| Bid Amount | ₹8000000.00 |
| Bid Required in Cover(s) | 2 |
| Bid Document |  Size 1.26 MB [English] |
| First Appeal Hearing Authority | Comptroller |
| Second Appeal Hearing Authority | Vice Chancellor |
| Critical Dates: | |
| Bid Uploaded Date | 11/01/2023 |
| Bid Publish Date | 12/01/2023 |
| Bid Submission End Date | 30/01/2023 |
| Bid Open Date | 31/01/2023 |