



ALL INDIA NETWORK PROJECT ON PESTICIDE RESIDUES

Room No. 203, 2nd Floor, B-2 Block, LBS Building
ICAR- Indian Agricultural Research Institute, New Delhi –110 012

File No. ICAR-IARI/AINP/LC-MS/MS/23-24/14

15/12/2023

NOTICE FOR E-PROCUREMENT THROUGH GEM

On-line Bids on Gem are invited from reputed Manufactures/Supplier/Authorized dealer in two bid system (Technical bid & Financial bid) for purchase of following scientific Equipment on behalf of Director, ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid is 09.01.2024 at 1:00 PM. The bid will be opened on 09.01.2024 at 1:30 PM by the prescribed committee.

Please visit www.iari.res.in for details Rules and Regulation and log in www.gem.gov.in for online bidding.

S.No	Name of the Scientific Equipment	Qty.	Earnest Money	Cost of the Equipment
1	LC-MS/MS with Accessories	01	7,00,000/-	1,75,00,000/-

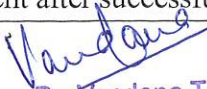
Detail of Gem Bid (Tender) are mentioned below:

Gem Bid (Tender) No.	GEM/2023/B/4364284
Bid Submission start date & time	19/12/2023
Last date & time for submission of bid	09/01/2024 at 1:00PM
Date & time for opening of technical bid	09/01/2024 at 1:30PM
Cost of estimated bid value (in Rupees)	Rs. 1,75,00,000/-
Pre-Bid date and Time	22/12/2023 at 4:00 PM
Pre-Bid Venue	AINP on Pesticide Residue, Room No. 203, 2 nd Floor, B-2 Block, LBS Building, ICAR-IARI, New Delhi-110 012

LC-MS/MS specifications:

Solvent Delivery System	Quaternary Pump Degasser Flow Range: 0.001 – 2.0 ml/min or better Operating Pressure: 0-15000 Psi at 1 ml/min or more Flow Rate Precision: 0.08% RSD or less
Autosampler	Standard Sample Capacity: Minimum 80 vials of 1.5 ml or 2 ml capacity or better Temperature Control Range: 4 – 40 °C Standard Injection Range: 1 – 50 µl or better Carry over should be less than 0.005% or better
Column Heater	Ambient plus 5 °C to 80 °C or better
MS/MS System	Triple Quadrupole based system with dedicated ESI and APCI ionization source as standard part of the system capable of carrying out MS and MS/MS experiment. Mass Range: 10 amu to 2000 amu or better
Resolution	Mass Resolution 1 Da or less
Electronics	Polarity switching switch from positive to negative polarity should be 25 milli second or less
Mass Stability	Less than 0.1 Da over a period of 24 hours
Scan Speed	18000 amu/sec or better
Collision Cell	Dwell time 1 milli second or less
Sensitivity	Positive Electron Spray ionization (ESI) positive: minimum S/N ratio of 5,00,000: 1 for 1 pg on column injection of Reserpine (official technical specification sheet should be attached). The negative Electron Spray ionization (ESI) mode should also give the minimum S/N ratio of 5,00,000: 1 for 1 pg on column injection of chloramphenicol (official technical specification sheet should be attached). OR Instrument Detection Limit (IDL) less than 4 fg reserpine in ESI positive mode and chloramphenicol in ESI negative mode.
Scan Modes	Should be capable of performing MS Scan, Product Ion Scan, SIM, MRM, Neutral loss/gain scan, Precursor Ion Scan. Should also be capable of Full Scan MSMS
Computer and Software	Branded PC with i7 processor, 24 "LED Screen, 1 TB HDD, 16 GB RAM etc.) and colour laser jet printer. Quote database for minimum 1000 contaminants including pesticide, antibiotics, mycotoxins etc. pertaining to their Molecular formula, mono isotopic mass, parent ion, collision energy, product ion, Rt, Sensitivity, ion ratio etc. Original company licensed latest software having capabilities to perform the following functions.

	<p>A) Automated calibration and quantitative optimization. B) Perform alternating Positive/Negative scans in one run. C) Automated quantitation and reporting of acquired samples.</p> <p>During the warranty period, the supplier shall provide the original version of any updates to the system software / new software launched at no extra cost.</p>
Gas Generator/ Gas Cylinder	<p>A suitable extremely low noise and vibration free imported gas N2 generator with built in air compressor One-time supply of filled cylinder of any other required gas, with regulator required for functioning of Mass Spectrometer</p>
Accessories	<p>Suitable On-Line 10 KVA UPS (Numeric/APC or equivalent), with suitable batteries for atleast 2 hr back up with full load UPLC C-18 columns: 10cm × 2.1mm, sub 2 microns (2 no.) 10cm × 4.6mm, 3-3.5 microns (2 no.) along with guard cartridge and guard column (2 each for both columns)</p>
Warranty	<p>The warranty period shall be 60 months from the date of completion of supply, installation and completion of all incidental services OR 62 months from the date of delivery in case the installation & all incidental services cannot be completed within 02 months from the date of delivery on account of the Consignee. Warranty should include all spares parts, electronic parts & boards, hardware consumables like PM kits, generator.</p> <p>Accessories listed in the technical specifications will be initially provided by the suppliers along with the equipment. Thereafter, it will be the responsibility of the consignee to provide the same as and when required. Other conditions of warranty clause remain the same.</p> <p>Performance Bank Guarantee (PBG) of 3%- 62 months from the date of installation</p>
Qualification Tests	<p>The company should perform IQ, PQ and OQ tests with documentation at the time of installation</p>
Calibration	<p>The company should bring the calibration kit and perform the annual calibration of the equipment during the warranty period.</p>
Schedule of requirement para iv(f) On-site training	<p>At least 2 days onsite training of the analysts after every 6 months during the warranty period</p>
Eligibility Criteria	<p>Vendor should have supplied minimum 10 Installation of quoted model in India. Installation reports to be submitted and 5 satisfactory performance certificates from the customer should be provided for the quoted model.</p>
Payment clause	<p>100% payment after successful installation & demonstration.</p>


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