



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/MPR/VT/LC-MS/MS/2023-24/26

Dated : 24.1.2024

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 14.2.2024 at 18:00. The bid will be opened on 14.2.2024 at 18:30 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
1.	LC-MS/MS	02	20,00,000/-

Detail of Gem Bid (Tender) are mentioned below:

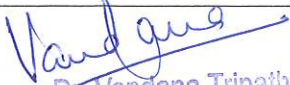
Gem Bid (Tender) No.	GEM/2024/B/4529392
Bid Submission start date & time	24.1.2024
Last date & time for submission of bid	14.2.2024 at 18:00
Date & time for opening of technical bid	14.2.2024 at 18:30
Pre-Bid date and Time	31.1.2024 at 11:00
Pre-Bid Venue	Room no. 203, 2 nd Floor, B-2 Block, LBS Building, P.C. Cell, AINP on Pesticide Residues, ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi-110012.

LC-MS/MS specifications:

S. No.	MS/MS Specifications	
1.	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: 5 to 1250 amu or better
2.	Polarity switching	Switch from positive to negative polarity should be 15 milli second or less
3.	Mass Stability	≤ 0.1 Da over a period of 24 hours
4.	Scan Speed	12000 amu/sec or more
5.	Sensitivity	The MRM Electron Spray ionization (ESI) sensitivity in positive mode should be S/N ratio of ≥15,00,000:1 on column injection for 1 pg of reserpine OR Instrument Detection Limit (IDL) should be less than 2.5 fg for ≤ 5 fg reserpine on column The MRM Electron Spray ionization (ESI) sensitivity in negative mode should be S/N ratio of ≥15,00,000:1 on column injection for 1 pg of chloramphenicol OR Instrument Detection Limit (IDL) should be less than 2.5 fg for ≤ 5 fg chloramphenicol on column Official technical specification sheet of the OEM should be attached as a proof of sensitivity
6.	Scan Modes	Full scan Product ion scan Precursor ion scan Neutral loss scan Multiple Reaction Monitoring (MRM)/ Selected Reaction Monitoring (SRM) or equivalent
UPLC Specifications		
7.	Solvent Delivery System	Quaternary Pump Degasser Flow Range: 0.001 – 2.0 ml/min or better Operating Pressure: minimum 15000 Psi at 1 ml/min
8.	Autosampler	Sample Capacity: Minimum 80 vials of 1.5 ml or 2 ml or better Temperature Control Range: 4 – 40 °C Standard Injection Range: 1 – 50 µl or better Carry over: <0.005 %
9.	Column Heater	Ambient plus 5 °C to 75 °C or better
10.	Database	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. A. Automated calibration and quantitative optimization. B. Perform alternating Positive/Negative scans in one run.


 A.N.P. Anand
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		C. Automated quantitation and reporting of acquired samples. 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.
11.	Computer	Branded PC with i7 processor, 32 LED Screen, 1 TB HDD, 16 GB RAM etc.) and colour laser jet printer.
12.	Gas Generator/ Gas Cylinder	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
13.	UPS & Compressor	Suitable On-Line 10 KVA UPS (Numeric/APC or equivalent), with suitable batteries for atleast 2 hr back up with full load
14.	Accessories	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)
15.	Warranty	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. 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. Performance Bank Guarantee (PBG) of 3%- 62 months from the date of installation
16.	Qualification Tests	The company should perform IQ, PQ and OQ tests with documentation at the time of installation
17.	Calibration	The company should bring the calibration kit and perform the annual calibration of the equipment during the warranty period.
18.	Schedule of requirement para iv(f) On-site training	At least 2 days onsite training of the analysts after every 6 months during the warranty period
19.	Eligibility Criteria	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.
20.	Payment clause	100% payment after successful installation & demonstration.


Dr. Vandana Tripathy
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