

Name of the High end Equipment - LCMSMS

Name of the Supplier - Agilent Technologies India

Agilent Model 6470 LCMSMS & UHPLC 1290 Infinity II Series

S.No.	Main Heads/Components	Remarks, if any
1	LC-MS/MS	
1.1	Mass Stability	
1.2	Dynamic range	
1.3	Mass analyser	
1.4	Sensitivity	
1.5	Scan speed	
1.6	Ionization	
1.7	Source Interface	
1.8	Integrated Fluidic Device (to minimize space and tubing)	
1.9	Polarity switching time	
1.10	Vacuum System	
1.11	Gas Control	
1.15	Operating modes	
1.16	Detector	
1.17	Nitrogen Generator (Should be complete with all necessary accessories)	
1.18	Vacuum Manifold with compatible SPE Cartridges (Minimum 10 cartridges extraction at one time (Minimum 1000 cartridges for different analytes i.e pesticide residues, antibiotic residues etc)	
2	<p>High Performance Liquid Chromatography System</p> <ul style="list-style-type: none"> List of column with Specification: <ul style="list-style-type: none"> a) C-18, 2.1x100 mmx 1.7 µm with suitable Guard column b) C-18, 2.1x150 mmx 1.7 µm with suitable Guard column c) C-18, 4.6 x250 mmx 5 µm with suitable Guard column d) C-8, 4.6 x250 mmx 5 µm with suitable Guard column e) Phenyl-Hexyl 2.1mm x100 x, 3µm or equivalent HILIC column with Guard column • Autosampler: with 1 to 10 ul/min injection, minimum of 100 samples capacity. Capability to handle pressure range of 15000 psi or better. • Column Oven: 30°C to 80°C, capability to accommodate a minimum of 1 or more columns of ≥ 15 cm. Temperature Stability: ±0.1°C Temp. Accuracy: ±0.5°C • DAD/PDA Detector: 190-700 nm, 80 Hz, Standard flow cell with flow cell of 1.0 ul or better 	

3	<p>Spares and accessories :</p> <ul style="list-style-type: none"> • LC-MS/MS startup kit should be supplied as standard. • All required traceable standards for Mass calibration and tuning, HPLC calibration should be provided • 5µl, 10µl, 20µl, 50µl, 100µl loops, Vacuum pump oil, etc. and any other material required to make the instrument functional should be provided. • Standard Tool kit should be provided for Instrument maintenance • Reputed highly branded solvent filtration unit with pump and required accessories 02 nos 	
4	System Controller and Operating system	Included in main system
5	<p>Calibration Standards</p> <ul style="list-style-type: none"> • Two sets each NIST or other traceable standards for all the Pesticides, Mycotoxins, antibiotics as per FSSAI requirement with a minimum expiry period of two years for seven years Or supply of NIST or other traceable standards every year with a validity of one year upto 7 years As per Annexure A 	7 years
6	<p>PC with Printer</p> <p>Minimum Intel Core i5/i7 Processor, 2 GHz or more, 19" or more LCD /TFT Monitor, 500GB HDD, DVD read/Write, 4GB RAM, 4USB Port or higher configuration for use with above system to be provided.</p> <ul style="list-style-type: none"> • Reputed Branded automatic back to back colour Laserjet printer should be provided. 	
7	Power Supply The system should have UPS (minimum 10 KVA) of suitable rating with voltage regulation, spike protection and minimum 60 minutes backup for the supplied equipment.	
8	<p>Additional items:</p> <p>Bidders should quote a startup package for 100 samples.</p> <p>Operation kit</p> <p>Pre-installation requirements and utility requirement for LC-MS/MS.</p> <p>Operation and maintenance manual.</p> <p>Service Manual</p> <p>Server connectivity and food safety compliance system.</p> <p>Complete method Library with MRMS of Mycotoxins</p> <p>Veterinary Drugs</p> <p>Pesticides, Antibiotic with instrument method</p>	
9	Operation and maintenance & Training Component	
10	IQ/OQ/PQ	
11	Warranty	