

Name of the High end Equipment - LC MSMS**Name of the Supplier - SCIEX (A division of DHR Holdings India Pvt. Ltd.****SCIX 4500 Triple Quad System OR SCIX 4500 Triple Quad System+Linear Ion trap**

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	
1.12	Operating modes	
1.13	Detector	
1.14	Nitrogen Generator Should be complete with all necessary accessories)	
1.15	Vacuum Manifold with compatible SPE Cartridges <ul style="list-style-type: none">• 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 • List</p> <p>of column with Specification:</p> <p>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</p> <ul style="list-style-type: none"> • The complete system and the MS should be controlled by the single software • PUMP: Binary pump pressure handling capability. Operating flow range should be 0.010-2.0ml/min or better with 1µl increments. • 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	<p>Systgem Controller and Operating system</p>	
5	<p>Calibration Standards • Two</p> <p>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</p> <p>Or</p> <p>supply of NIST or other traceable standards every year with a validity of one year upto 7 years As per Annexure A</p>	

6	<p>PC with Printer</p> <ul style="list-style-type: none"> 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. • Reputed Branded automatic back to back colour Laserjet printer should be provided. 	
7	<p>Power Supply</p> <ul style="list-style-type: none"> • 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> <ul style="list-style-type: none"> • Bidders should quote a startup package for 100 samples. In addition bidders should give a list of recommended consumables along with their source and budgetary prices. • Operation kit comprising all required items for startup/regular operation of instrument. • Firm should also quote all essential pre-installation requirements and utility requirement for LC-MS/MS. • Operation and maintenance manual for each unit in both hard and soft copy. • Service Manual with set of required tools for each system/unit. • The system should have server connectivity and should be capable of 21 CFR Part 11 and food safety compliance. The necessary validations will have to be carried out by the equipment suppliers. <p>Complete method Library with MRMS of Mycotoxins Veterinary Drugs, Pesticides, Antibiotics with instrument method details and SOPs, related software's and user manuals to be provided.</p>	
9	<p>Operation and maintenance & Training Component (Site comprehensive training for operator at onsite and at Supplier's premises) One trained person for 7 years</p>	
10	IQ/OQ/PQ	
11	Warranty	