



ANNEX - 01

Automated Microbiology Analyzer (Identification & Antibiotic sensitivity) Specifications

Description:	The system should be totally automated for sample loading, incubation, sample standardization & interpretation of results.
Analytical Parameters:	Identification up to species level. Direct growth based up to MIC level
Panel capacity	The system must have the capacity to accommodate a minimum of 15 panels (ID & AST) at any time. The system must have separate cards for Identification and Susceptibility testing.
Bar Code	The system must have a bar code scanning device for Test cards/Cartridges/Medium and or panel identification.
Testing base	Should be on disposable sealed bar coded, cards, panels, strips with prefilled reagents, without additional requirements for adding reagents manually after incubation. Automated addition of reagents within analyzer is acceptable.
Sample dispensing	Database of reference phenotypes will be an added advantage . The software must have the following capabilities: - <ul style="list-style-type: none"> • Workflow management. • Data storage. • Test quality control management. • Real-time connectivity with LIS. • Quick and easy reviewing and reporting • Identify test results as per NCCLS guidelines.
Additional reagents	If additional reagent costs are required, please supply details including cost and preparation time.
Incubator	On board incubation chamber
Test Processing Time	Within 5 to 18 hours.
Type of Panels	It shall have different panels (ID & AST) separately to give user more flexibility on selection and save on cost.
Panels For	ID & AST of Gram-negative cocci/bacilli, Gram Positive cocci/bacilli and Yeast.
Printer	Inbuilt or External. If both options available both shall be provided.
Standards and Electrical Requirements	USFDA, CE and or ISO certifications or relevant standards certification. Power requirement:250V, 50Hz. Conformity to electrical standards: IEC 61010-1, IEC 61010-2-081, IEC 61010-2-101 or BIS equivalent



	Shall provide suitable capacity UPS along with machine.
Country of origin	Open
User Training	International Training: A one-time user training for one laboratory technologist shall be provided at an International Research Institute or Hospital laboratory with a volume of minimum 10 test per day. The length of the training shall be 14 days not counting travel and holidays. All cost of training to be provided by supplier.
Warranty & Service	<p>The company should have service engineers who should be available 24/7 on phone & at site within 48 hours of reporting an error.</p> <p>Operator's manual and Service manual should be provided.</p> <p>All access codes to service mode shall be provided.</p> <p>Manufacturer's standard warranty with documents should be available.</p> <p>Manufacturer website information to be provided if specifications needed to be verified.</p> <p>Manufacturer's standard warranty with documents should be available.</p> <p>The supplier shall provide annual comprehensive maintenance of the supplied equipment as per manufacturers recommendation. And shall provide a maintenance report every 6 months.</p>
Distributorship	<p>Suppliers shall have a valid authorized distributor license or reseller license for the country/region at the beginning of agreement or on signing of contract.</p> <p>A distributorship or licensor-ship certification is mandatory at the time of bid submission.</p>
Demonstration	All prospective bidders shall demonstrate the unit online before technical evaluation. This should include detailed explanation about reagents and consumables, operation, other accessories utilizations. And also, a short video how the equipment works.
System Configuration Accessories	All consumables required for system installation & configuration shall be provided free of cost.
Additional Remarks or Requirements	<p>Complete product details to be enclosed with the original brochure or catalogue (Soft & hard copy).</p> <p>Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.</p> <p>Quotation with details of all equipment price should be given.</p>



At minimum it should have facilities for identification & antimicrobial susceptibility of the following clinically significant microbes;

Microbe	Identification	Antimicrobial Susceptibility
Gram-negative bacteria	Yes	Yes
Gram positive bacteria	Yes	Yes
Yeast	Yes	Yes
Anaerobes	Yes	Optional
ESBL	Yes	Yes
MRSA	Yes	Yes
Neisseria & Haemophiles	Yes	Optional

Tentative Annual Requirement:

Serial No	Name of test	Estimated Annual Tests
1	No of identification Tests	6805
2	No of Antibiotic Sensitivity	4625

Please note this is an estimated number which can either increase or decrease based on availability of patients.



Automated Blood Culture System Specifications

<p>Description:</p>	<p>System should be fully automated, upgradable, walk-away, continuous monitoring and random-access system, which does continuous agitation for optimized recovery of organisms.</p> <p>System detection should be based on advanced sensitive fluorescent technology.</p>
<p>Sample capacity:</p>	<p>Minimum 40 sample positions and can be upgraded on site up to 160 samples as and when required.</p>
<p>Technical Specification:</p>	<p>System must support lab quality control requirement for automated analytics of blood volumes monitoring</p> <p>System should have facility to generate automated reports ready to be analyzed and sent to be various departments</p> <p>System should have more than 16 algorithms to monitor growth patterns in case of Positive samples</p> <p>System process enhanced visual indicators both inside and outside the instrument in the form of different colored LEDS to indicate exact station status –available, ongoing, positive, and negative & anonymous.</p> <p>System should support special resin-based media for Antibiotic Neutralization for optimized recovery from various patients those are under treatment. Antibiotic neutralization device must have a proven record of neutralization even for last resort antibiotics like carbapenems at Trough, Mid and Peak levels in the Blood specimen, proof source to be submitted</p> <p>Instrument is having the facility to enter patient details and can scan the sample accession number using bar code reader (Feature: Accession Barcoding)</p> <p>System allows the user to load bottles anywhere in the system, without any software intervention in order to get the bottles loaded in the instrument round the clock.</p> <p>System should support special media for processing Pediatric Samples and Low volume sterile body fluid samples.</p> <p>System should support special media for optimal recovery of yeast, fungi and mycobacterium from Blood samples.</p> <p>Instrument positive bottle supports with rapid and accurate gram stain results without any hindrance like charcoal stains in microscopic background</p> <p>Special supplement for enhanced recovery from low volume sterile body fluid and special bottle for low volume pediatric samples will be added advantage.</p>



	<p>Media bottles are fully compatible with vacutainer holders without the need for a special adapter to improve blood collection workflow and safety.</p> <p>System should be capable of bi-directional interfacing with LIS/HIS (Laboratory/Hospital Information System).</p> <p>System should automatically calculate and provide TTD (Time to time detection) and Time in protocol (Time in protocol).</p> <p>System should take reading at every 10 Minute intervals.</p>
Standards and Electrical Requirements	<p>USFDA, CE and or ISO certifications or relevant standards certification.</p> <p>Power requirement:250V, 50Hz.</p> <p>Conformity to electrical standards: IEC 61010-1, IEC 61010-2-081, IEC 61010-2-101 or BIS equivalent</p> <p>Shall provide suitable capacity UPS along with machine.</p>
Distributorship	<p>Suppliers shall have a valid authorized distributor license or reseller license for the country/region at the beginning of agreement or on signing of contract.</p> <p>A distributorship or licensor-ship certification is mandatory at the time of bid submission.</p>
Demonstration	<p>All prospective bidders shall demonstrate the unit online before technical evaluation. This should include detailed explanation about reagents and consumables, operation, other accessories utilizations. And also, a short video how the equipment works.</p>
System Configuration Accessories	<p>All consumables required for system installation & configuration shall be provided free of cost.</p>
Additional Remarks or Requirements	<p>Complete product details to be enclosed with the original brochure or catalogue (Soft & hard copy).</p> <p>Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.</p> <p>Quotation with details of all equipment price should be given.</p>
User Training	<p>International Training: A one-time user training for one laboratory technologist shall be provided at an International Research Institute or Hospital laboratory with a volume of minimum 10 test per day. The length of the training shall be 14 days not counting travel and holidays. All cost of training to be provided by supplier.</p>