



**केन्द्रीय मात्स्यकी प्रौद्योगिकी संस्थान**  
**CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY**  
(भारतीय कृषि अनुसन्धान परिषद)  
(INDIAN COUNCIL OF AGRICULTURAL RESEARCH)  
विल्लिंगडन आइलैंड, मत्स्यपुरी पी. ओ., कोच्चिन-682 029  
WILLINGDON ISLAND, MATSYAPURI P.O., COCHIN-682 029



F.No. 6-19/2018-Purchase (DOSA)

Dated: 14.02.2019

**Corrigendum to Specification**

The specifications for Automated Microbial Identification (ID) and Antimicrobial Sensitivity Testing (AST) System as given in this Office e-tender No.6-19/2018-Purchase(DOSA) dated 01.02.2019 is now amended and modified specification is as detailed below:-

**i.Principle, Automation and Technical Features:**

The system should work based on growth and metabolic changes measured by optical devices eitherby advanced colorimetry or fluorimetry, or turbidometry, etc.

The system should be automatic table-top integrated with a complete set of accessories/devices/ modules, software and hardware having reference database and parts for sample preparation, process control, generation of test reports, **supplemental react file mode to create additional database, and VLINK connectivity to have remote access etc.**Should also have an **automated Inoculation of sample to test cards, automated discard of used cards and Veterinary Specific AST cards.**There should be in built provision for reading of results, interpretation, report generation, and auto calibration. High-throughput and capable of carrying out 40 or more test at a time for either ID or AST.

The system should be capable of ID of isolate with  $\geq 95\%$  confidence level and AST determination with high performance.

**ii.Microbial Identification System:**

System with the capability to identify Gram-positive and Gram-negative bacteria (within 10h) and Yeast (within 18h) at species level based on phenotypic characterization and updated library of the targeted organisms.

**iii.Antibiotic Susceptibility Testing (AST):**

The system must be able to determine the sensitivity profile of Penicillins, Fluoroquinolones, Cephalosporins, Tetracycline, Macrolides, Aminoglycosides, Monobactams, Vancomycin, and Carbapenems.

The system with the capability to present the results on the sensitivity/ resistance status of clinically/veterinary/food isolates like ESBLs, MRSA, VRE, and  $\beta$ -lactamases resistance.

The system should be capable of determining MIC/break-point concentration;

**a.** As per CLSI/EUCAST guidelines,

**b.** With the inbuilt capability of running 20 antibiotics at a time

c. AST determination within 20 h

**iv.Data Management Software and Updates:**

User-friendly operational software, capable of generating the reports and antibiogram for epidemiological studies.

The database should be licensed, and provision of future up-gradation in software by the supplier onsite with no additional cost.

The system should be approved by FDA/or Any equivalent certification body.

The system should have compatibility with the bidirectional LIS along with required software and hardware for data storage/ transfer.

**v.Equipment Installation:**

The equipment along with accessories should be installed as per standard protocol of the company with certified trained service engineers/application experts complying Installation qualification (IQ) and Operational qualification (OQ).

**vi.Provision of Kits for Evaluation/ Working Performance and Installation Requirements:**

The bidder shall supply 200 kits each for ID and AST of target bacteria (Grams Positiv and negative) as mentioned in S. No. 5 for sample preparation (density meter, sample tubes, pipettes, and dispenser, etc.) along with reagents/ consumables/ chemicals required for running/ maintenance/ cleaning of the equipment.

Provision of onsite requirements which are essential for the installation and operation of the equipment along with supporting device required for synergy and improved automation, throughput and efficiency of the workflow.

**vii.Computer and Other Peripheral Accessories:**

a. The system must be supplied with the required components/devices required for sample preparation, processing, computers (i5 processor, 8GB RAM, MS Office, and Genuine windows), printers, barcode reader linked with ID, AST and report generation along with online UPS (3 KVA) with at least 1h backup.

b. Thermal wax printer like Xerox ColorQube 8580N, 8570, 8870, 8880N or any other equivalent model having following features; Print resolution 2400, Print memory 1 GB; Processor-1.02 GHz; USB 2.0.

**viii.Warranty, spares, and service**

a. The bidder must quote with a comprehensive warranty for the system, components, and parts for at least 3 years.

b. CMC for next 3 years must be quoted.

c. The bidder shall provide onsite service by qualified technical personnel (at no extra cost during the warranty) within 72 h.

**ix. Documents and Manuals:**

- a.** The bidder must supply, Technical manual, SOP, Logbook with instruction for daily, weekly, monthly and quarterly maintenance checklist.
- b.** All the technical specifications given in the tender document must be supported by leaflets/brochures and must comply with the working performance of the equipment at the time of installation and demonstration.
- c.** Regulatory and safety certificates as listed in the requirements above, Manual/Guide for operation, troubleshooting, data analysis, and report generation.
- d.** The vendor will ensure calibration of the system as per NABL requirements on a yearly basis.

**X. Reference Users:**

A list of 10 satisfied users from Veterinary/Food/Research Institute and Human Sample Testing centres with Performance Satisfaction certificate.

Sd/-

**Asst. Administrative Officer(P)**