



GOVT. OF ASSAM

**OFFICE OF THE PRINCIPAL- CUM- CHIEF SUPERINTENDENT**

**DHUBRI MEDICAL COLLEGE & HOSPITAL, DHUBRI**

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No. DMCH/HMS/Accounts/Autoanalyzer/2022-23/ 24291

Dated ... 9/12/2022

**CORRIGENDUM**

As per the pre-bid meeting held in the O/O. The Principal cum Chief Superintendent, DMC&H on 08/12/2022 regarding EOI for Supply of Fully Automated Biochemistry Analyzer free of cost on Reagent Rental basis for 4 years plus 1 year extendable for Dhubri Medical College & Hospital, the revised specification is hereby issued and available for download at <http://dhubrimedicalcollege.in/>

Principal cum Chief Superintendent  
Dhubri Medical College & Hospital  
Dhubri, Assam

Memo No. DMCH/HMS/Accounts/Autoanalyzer/2022-23/ 24292-93

Dated ... 9/12/2022

Copy to:-

1. The DIPRO, Dhubri with a request to publish in newspaper.
2. Notice Board

Principal cum Chief Superintendent  
Dhubri Medical College & Hospital  
Dhubri, Assam



## 2 Operational Requirements

- 2.1 A discrete patient prioritized automated random access clinical chemistry analyzer, for all biochemical parameters including Hormones, tumour markers and acute phase proteins, immunoglobulins, drug assay etc. in blood/urine/body fluid with ISE electrolyte analyzer (Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, Ca<sup>2+</sup>, Bicarbonate, Mg). Independent calibration of photometer and electrolyte analysts and an open reagent system.

## 3 Technical Specifications

- 3.1 Analytical Mode: Equipment should be integrated system providing clinical chemistry, immunoassay and electrolytes on a single compact platform. Should also have an open system channels available.  
End point as well as Kinetic, Automatic, discrete, Random Access, photometric for clinical chemistry and chemiluminescence for immunoassay.  
Electrolytes by direct measurement through ion-selective electrode (preferably disposable)
- 3.2 On board parameters: Minimum 25 and above.
- 3.3 Through put: Minimum (800) test/hour with ISE test. Immunoassay not less than 170 test per hour.  
Continuous loading facility to be provided along with facility to load stat/emergency samples.
- 3.4 Sample Volume: Minimum 3– 15 µl/test.
- 3.5 Reagent Volume: Maximum 150-300 micro litre for single reagent. Multi-reagent facility should be provided.
- 3.6 Error Check: Automatic flagging for errors
- 3.7 Auto dilution facility: For high value samples
- 3.8 Repeat Run facility: Facility to check the results by repeat run on the desired samples
- 3.9 Sample clot and bubble detection facility :For excluding erroneous analysis.
- 3.10 Self-diagnosis and troubleshooting: For minor day-to-day problem
- 3.11 Calibration & quality control: Linear/ Non-Linear/Multipoint
- 3.12 Onboard Bar Code Facility: Barcode ID for sample tube and Reagent Identification Facility
- 3.13 All types of tests (Biochemistry, Immunoassay and Electrolytes) should be processed simultaneously by the analyzer shall be preferred without splitting of samples.

3.14	Stat facility should be available.
3.15	LAN interface facility:Online data transmission facility through LAN to the Computer Network of the Hospital along with necessary software
3.16	Analyser should be able to detect hemolysis, icterus and turbidity in the sample and there should be flagging.
3.17	Measurement: Mono & Biochromatic with polychromatic correction for interfering substances

3.18	Preference shall be given to system not using any external water and no water plant is required.
3.19	Probe system: Separate probe for reagent and sample
3.20	OPTICAL SYSTEM:  a) Light Source: Halogen/Xenon Lamp. b) Wave Length Range: 340–800nm with polychromatic correction. c) Optical Detection: Diffraction grating. d) O.D. Range: 0–2.5
3.21	Computer specification :CPU core i7, 2.7 GHz and above; 1.5 GB RAM; 1TB Hard Disk Drive; High Speed DVD/CD Rom 52X; Serial and parallel ports; Keyboard (IOS) , Mouse and Mouse Pad; Preloaded latest MS Windows Versions; SVGA Monitor size L5"; Inkjet printer; Modem 56K; latest anti-virus SOLOMAN & NORTON.
3.22	Preference shall be given to system that not requires any plumbing, drainage, or any other external lines/tubes except electrical lines.
3.23	Analyzer storage with inbuilt refrigeration system with controlled temperature for reagent storage to maintain the stability of reagents on analyzer shall be given preference.
3.24	Preference shall be given to equipment of this make with installation in maximum number of Govt. Medical College and Hospitals in North East.
3.25	Preference shall be given to the bidder having manufacturing company's warehouse at Assam for reagent, consumables along with machine spares.



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| 3.26 | Bidder supplying The machine with required UPS with at least one hour battery support, Isolation transformer shall be preferred.                                 |
| 3.27 | The bidder shall be preferred providing backup analyzer upon request. In such case reagents and consumables should be same as being used in the quoted analyzer. |
| 3.28 | Inbuilt data storage and backup, integration capability with LIS. USB flash drive capability.  |

#### 4 System Configuration Accessories, spares and consumables

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| 4.1 | System as specified-  |
| 4.3 | Trial kits for various parameters, multi-calibrators and multicontrols.-01 set                    |
| 4.4 | ISE Electrodes for Na, K and Cl measurements-01 ea.   |
| 4.5 | Data Processor Computer with printer etc., as specified above-01                                  |
| 4.6 | All consumables required for installation and standardization of system to be given free of cost. |

#### 5 Environmental factors

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| 5.1 | Shall meet IEC-60601-1-2 :2001 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. or should comply with 89/366/EEC; EMC-directive. |
| 5.2 | The unit shall be capable of being stored continuously in ambient temperature of 0 - 50 deg C and relative humidity of 15-90%   |
| 5.3 | The unit shall be capable of operating in ambient temperature of 20-30 deg. C and relative humidity of less than 70%  |

#### 6 Power Supply

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| 6.1 | Power input to be 220-240 VAC (Single Phase), /400-440 V (3 Phase)/ 50Hz as appropriate fitted with Indian plug                  |
| 6.2 | Voltage corrector/stabilizer of appropriate ratings meeting ISIS specifications. (Input 160-260V and output 220-240 V and 50 Hz) |

#### 7 Standards, Safety and Training

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| 7.1 | Preference will be given US FDA/ European CE approved product. |
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| 7.2 | Manufacturer/Suppliers should have ISO certification for quality standards.  |
| 7.3 | Comprehensive warranty for 3 years and 7 years Comprehensive AMC after warranty  |
| 7.4 | Comprehensive training for lab staff and support services till familiarity with the system.  |
| 7.5 | Attach original manufacturer's product catalogue and specifications sheet. Photocopy/computer print will not be accepted. All technical data to be supported with original product data sheet. Please quote page number on compliance sheet as well as on technical bid corresponding to technical specifications. |
| 7.6 | Should be compliant with IEC 61010-1: (or any international equivalent eg EN/UL61010) covering safety requirements for electrical equipment for measurement control and laboratory use   |

## 8 Documentation

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| 8.1 | User/Technical/Maintenance manuals to be supplied in English.   |
| 8.2 | Certificate of calibration and inspection.  |
| 8.3 | List of Equipment's available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual.   |
| 8.4 | Logbook with instruction for daily, weekly, monthly and quarterly maintenance checklist.<br>The job description of the hospital technician and company service engineer should be clearly spelt out |
| 8.5 | Performance report in the last 5 years of the quoted equipment from major hospitals should be enclosed.   |