थाहा नगरको विकासको आधार, कृषि, पर्यटन र पूर्वाधार

थाहा नगरपालिका

नगर कार्यपालिका कार्यालय

इन्द्रायणी [illegible] सुकवानपुर

बागमती प्रदेश, नेपाल

०५७-४००००६

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पत्र संख्या २०८०/८१

चलानी नम्बर :९९८१

Purchase of Fully Automated Biochemistry Analyzer

प्रथम पटक प्रकाशित सूचना : मिति २०८१/०१/३१ गते

यस थाहा नगरपालिकाको आ.व.२०८०/८१ को वार्षिक स्वीकृत कार्यक्रम अनुसार नगरभित्रका प्राथमिक स्वास्थ्य केन्द्रमा **Fully Automated Biochemistry Analyzer** क्याटल सपिङ विधिबाट खरिद गर्नु पर्ने भएकाले सार्वजनिक खरिद नियमावली २०६४ को नियमा ३१ख बमोजिम सात (७) दिन भित्र माथि उल्लेखित सामग्री उत्पादक कम्पनी वा आधिकारीक बिक्रेताले यस नगरपलिकाको बेभसाइट www.thahamun.gov.np मा रहेको स्पेशिफिकेशन वा सो सरहको गुणस्तर कायम हुने आधार, मुल्य र सुविधा सहितको क्याटलग वा ब्रोसर र तपसिल अनुसार कागजात संलग्न राखी यस कार्यालयमा निवेदन दर्ता गर्न सकिने छ ।

तपसिल

क) संस्था वा फर्म दर्ताको प्रमाणपत्र

ख) स्थायी लेखा नम्बर वा मू अ कर दर्ताको प्रमाणपत्र

ग) कर चुक्ता प्रमाणपत्र

घ) आवश्यकता अनुसारको व्यवसायिक इजाजतपत्र

ङ) कम्पनी वा आधिकारीक विक्रेताको प्रमाणपत्र

च) सामग्रीको क्याटलग वा ब्रोसर

कृष्ण गिरी
प्रमुख प्रशासकीय अधिकृत

कृष्ण गिरी
प्रमुख प्रशासकीय अधिकृत

Technical Specification of Fully Automated Biochemistry Analyzer

S.N.	Purchasers Requirement
	Fully Automated Biochemistry Analyzer
	Manufacturer
	Brand
	Type/Model
	Country of Origin
1	**Description of Function**
1.1	Fully-automated Bio-chemistry Analyzer for analysis of serum, plasma, urine, cerebrospinal fluid (CSF), hemolysate and whole blood.
2	**Operational Requirements**
2.1	Must be discrete patient prioritized automated random access clinical chemistry analyzer, for chemistries in blood, urine and other body fluid complete with all standard reagent, consumables, accessories.
3	**System configuration**
3.1	Fully Automated Bio-Chemistry Analyzer with complete accessories.
4	**Technical Specifications**
4.1	**Measurement Principle:** • Turbidimetric Immunoassay, Colorimetry (Rate/End Point), Ion Selective Electrodes (optional).
4.2	**On Board Parameters:** • Minimum 40 or more parameters.
4.3	**Water Consumption:** • Less than 6.5 L/hour (approx.) if applicable.
4.5	**Throughput:** • Minimum of 200 test/hr or more.
4.6	**Reagent Position:** • Minimum 50 refrigerated reagents position. • Dispensing probe with Liquid level Sensor. • Reaction temperature 37 ± 0.2°C.
4.7	**Sample Position:** • Minimum 35 positions with continuous loading. • Blood collection tube of 5 ml, 7 ml and 10ml or Micro cups 500ul or 2ml Sample Cups.
4.8	**Sample Volume:** • 2-70µl (0.1 µl increment), Auto-dilution of samples and calibrators.
4.9	**Reaction Cuvette Position:** • Minimum 40 position and Cuvette should be reusable hard glass quartz cuvettes.
4.10	**Reaction System:** • Cuvette path length of 5 mm with temperature maintained at 37 °C ± 0.1 °C.
4.11	**Optical System:**

नेल्सन महत
बायोमेडिकल इन्जिनियर (आठौं)

	• Detector Method: Direct absorbance in cuvette (monochromatic or bi-chromatic). • Filters: Min. 8 nos. • Wavelength: Between 340 – 700nm or better. • O.D. Range: 0 to 3.0 • Resolution:0.001. • A Light Source: Halogen lamp or LED or better.
4.12	**Sample Aspiration:** • Single Probe for reagent and Sample with liquid level sensor, Vertical obstruction and crash detection system.
4.13	**Mixing System:** • With Independent stirrer with user selectable mixing speeds.
4.14	**On Board Reagent:** • Should have on board reagent cooling with refrigeration unit for maintaining the reagent at 4-12°C.
4.15	**ON Board Washing:** • System should have washing unit for reaction cuvettes.
4.16	**Calibration:** • K-Factor, Linear (one point, multipoint, and point-to-point), etc.
4.17	**Quality Control:** • Manufacturer should have its own quality control reagent and should have facility to run at least 4 level qc.
4.18	**Barcode Reader:** • Built in barcode reader for reagent and sample.
4.19	**Detection Facility:** • Should detect Bubbles, Reagent Levels.
4.20	**PC Requirements:** • Latest windows-based operating system, minimum widows 7, Hard disk minimum 500GB, DVD drive, at least 15-inch LCD monitor, LAN connectivity, USB, keyboard, mouse, etc.
4.21	**Software Requirements:** • Patient oriented, user friendly andtest oriented. Must support LIS system.
4.22	**Communication and host interface:** • Must have Laboratory Information System (LIS), Bidirectional interface USB or RS 232 system.
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4.24	It should occupy minimal workbench space.
5	**Accessories, spares and consumables**
5.1	Should be supplied with: • Compatible laser printer: 1pc • Trial kits for Glucose, Urea, Creatinine, ALT, AST, TBil, DBil, etc. with multi calibrators and multi c: 1 set each • Controls: 1set

नेल्सन महत
बायोमेडिकल इंन्जिनियर (आठौ)

	• Deionized water 20L: 1pc
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer
6	Operating Environment
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug.
6.3	Suitable online UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.
7	Standards and Safety Requirements
7.1	Must submit ISO certificate.
7.2	Must submit CE or USFDA approved product certificate.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9	Warranty
9.1	Comprehensive warranty for 3 years for the entire system and 2 years of free service after comprehensive warranty period is over. The warranty starts from the day of complete satisfactory installation of the equipment.
10	Maintenance Service During Warranty Period
10.1	During warranty period supplier must ensure at least 2 preventive maintenance visits annually and corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)
11	Installation and Commissioning
11.1	The bidder must arrange for the equipment tobe installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
12	Documentation
12.1	Must provide user (Operating) manual in English upon installation.
12.2	Must provide service (Technical / Maintenance) manual in English upon installation.
12.3	Must submit certificate of calibration and inspection from factory upon installation.

नेल्सन महत
बायोमेडिकल इन्जिनियर (आठौ)