

**Madi Municipality**  
**Office of Municipal Executive**  
**Basantapur, Chitwan**  
**Bagmati, Nepal**

**Bill of Quantity**

*(Signature)*  
 प्रमुख प्रशासकीय अधिकृत

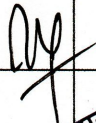
**Name: -Purchasing of Equipment for Madi Municipality**

**Fiscal Year: - 076/077**

**Technical Specification of Fully Automated Biochemistry Analyzer**

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	Fully Automated Bio-Chemistry Analyzer	Yes	No	Page No. in Catalogue
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
<b>1</b>	<b>Performance Characteristics</b>			
1.1	Throughput: 250-300 Photometric tests per hour without ISE.			
1.2	Analyzer Type: Fully automated random access clinical chemistry analyzer with accessories.			
1.3	Assay Tests: Endpoint, kinetic, bio chromatic, turbid metric, sample blanking, reagent blanking and ISE.			
1.5	Maintenance: Daily maintenance of less than 10 minutes.			
1.6	Data Management: Storage of up to 30,000 patient reports with search facility.			
1.7	Test Channels: Minimum 50 photometric channels.			
<b>2</b>	<b>Reagent System</b>			
2.1	Reagent Capacity: Removable tray with minimum 50 cooled positions.			
2.2	Reagent Cooling :8-15 ° C.			
2.3	Reagent Identification: Automatic barcode reagent identification.			
2.4	Reagent Inventory: Calculation of remaining reagent volume and tests available, alert for shortage, expired reagent and expired calibration.			
2.5	Reagent Pipette: Dedicated twin reagent micropipette with liquid level sensor and crash detection, rinsed inside and outside with purified water.			
<b>3</b>	<b>Sample System</b>			
3.1	Sample Addition: Immediate sampling interruption for addition of samples via removable panel.			
3.2	Sample Capacity: Removable tray with minimum 50 positions for samples.			



3.3	Sample Dead Volume: 150 µl in Standard or primary tubes, 100µl pediatric cups.	 प्रमुख प्रशासकीय अधिकृत		
3.4	Sample Dilution: Pre-dilution and automatic re-assay with diluted, reduced or increased sample volume.			
3.5	Sample Identification: Bar-coded sample identification.			
3.6	Sample Pipette: Dedicated sample micropipette with liquid level sensor, crash detection, bubble detection and clot detection. Rinsed inside and outside with purified water.			
3.7	Sample Tube Size: Multiple primary tube sizes, pediatric cups.			
3.8	Sample Type: Serum, Plasma and Urine.			
3.9	Sample Volume: 1-50µl(0.1 µl increments).			
3.10	Stat Sampling: Immediate STAT sampling interruption.			
4	<b>Reaction System</b>			
4.1	Stirring Speed: Dual 5-speed rotating stirrers rinsed with purified water.			
4.2	Stirring System: Paddle type rotating stirrer cleaned with purified water.			
4.3	Temperature: 37° C ±0.3.			
4.4	Cuvettes: minimum of 50 semi-permanent/permanent Cuvettes.			
4.5	Water consumption : Not more than 5ltrs/Hr.			
4.6	Water Type: NCCLS type 1 or 2 purified water supply.			
5	<b>Optical System</b>			
5.1	Detector Method: Direct absorbance in cuvette (dichromatic or monochromatic).			
5.2	Detection Principal: 12 Wavelengths 340,380,415,450,510,546,570,600,660,700,750 and 800 nm.			
5.3	Light Source: Halogen tungsten lamp of minimum 6-month lifespan.			
6	<b>Calibration and QC</b>			
6.1	Quality control: Interactive L-J Charts, Daily, Monthly and Batch QC with data archiving, Automatic QC and Automatic calibration.			
6.2	Calibration Principal: Factor, Linear, Point to point, Spline, log-logit, exponential etc.			
7	<b>Power and connectivity :</b>			
7.1	Input Voltage : 120-240 Vac.			
7.2	Power Consumption : <650 VA.			
7.3	LIMS connectivity: Bi-directional; ASTM standard (RS232 connection).			
8	<b>Operating System</b>			
8.1	Operating Interface: Windows based user Interface 100-249 VAC.15" or more LCD display and printer externally connected.			
9	<b>Accessories, spares and consumables</b>			



9.1	Trial kits for at least 10 different parameters, multi-calibrators and control (At least two levels).			
9.2	Data Processor Computer as specified in 8.1.			
9.3	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. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
10	<b>Operating Environment</b>			
10.1	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.			
10.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 meters long.			
11	<b>Standards and Safety Requirements</b>			
11.1	Must Submit ISO 13485:2003/AC: 2007. AND			
11.2	CE marked in compliance with in Vitro Diagnostic Medical Device Directive 98/79/EC electrical safety.			
11.3	Must Submit USFDA approved product certificate			
11.4	Instrument should be latest model & brand new with latest serial number.			
10	<b>User Training</b>			
10.1	Must provide user and application training.			
11	<b>Warranty</b>			
11.1	Comprehensive warranty for 2 years and extra 1 year free AMC.			
12	<b>Maintenance Service During Warranty Period</b>			
12.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required promptly within 12 Hrs.			
13	<b>Installation and Commissioning</b>			
13.1	Supplier must accomplish proper installation & commissioning of the equipment on site.			
14	<b>Documentation</b>			
14.1	User (Operating) manual in English.			
14.2	Service (Technical / Maintenance) manual in English.			
14.3	List of important spare parts and accessories with their part numbers and costing.			
15	<b>Supply Rate for Fully Biochemistry Auto Analyzer</b>			
15.1	Figure :			
15.2	Words :			

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.



1	<b>Patient Monitor</b>		
1.1	5 Para		
2	<b>Warranty</b>		
2.1	Comprehensive warranty for 2 years and extra 1 year Replacement Guarantee.		
3	<b>Maintenance Service During Warranty Period</b>		
3.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required promptly within 12 Hrs.		
3.2	<b>Installation and Commissioning</b>		
3.3	Supplier must accomplish proper installation & commissioning of the equipment on site.		
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3.5	User (Operating) manual in English.		
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3.7	List of important spare parts and accessories with their part numbers and costing.		
4	<b>Supply Rate for Patient Monitor</b>		
4.1	Figure :		
4.2	Words :		

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Name of Suppliers:

Name of Proprietor:

Address:

Signature:

Date:

Office Stamp