



नेपाल सरकार

स्वास्थ्य तथा जनसंख्या मन्त्रालय

लुम्बिनी अञ्चल अस्पताल

बुटवल, रुपन्देही

आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्यको

शिलबन्दी बोलपत्र फाराम

ठे.नं. १६ क/०७१/०७२

फर्मको नाम :-

प्रोपाइटरको नाम/थर :-

सम्पर्क फोन/मोवाइल नं. :-

मिति :-

बिक्री अन्तिम मिति : सूचना प्रकाशित मितिको ३० औं दिनसम्म

दाखिला अन्तिम मिति : सूचना प्रकाशित मितिको ३१ औं दिनको १२:०० बजेसम्म

खोल्ने मिति : सूचना प्रकाशित मितिको ३१ औं दिनको २:०० बजे



नेपाल सरकार

स्वास्थ्य तथा जनसंख्या मन्त्रालय

वृत्तिविधि अञ्चल अस्पताल बुटवल

बोलपत्र आह्वानको सूचना

सूचना प्रकाशित मिति २०७१।११।२५

यस अस्पतालको लागि आ.व. २०७१।०७२ मा ICU संचालन गर्नको निम्ती आवश्यक पर्ने मेशिनरी उपकरणहरु बोलपत्रका माध्यमबाट खरिद गर्नुपर्ने भएकोले निम्न शर्तहरुको अधिनमा रहि शिलबन्दी बोलपत्र पेश गर्न सम्बन्धित सबैको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ ।

- १) सूचना प्रकाशित भएको मितिले ३० दिन सम्म कार्यालय समयमा तपसिलमा उल्लेखित रकम (पछि फिर्ता नहुने गरी) तिरी यस अस्पताल वाट खरिद गर्न सकिनेछ । बिक्रि भएका बोलपत्रहरु ३१ औं दिनको १२.०० बजे भित्र यस अस्पतालमा दर्ता भईसक्नु पर्नेछ । म्यादभित्र प्राप्त भएका बोलपत्रहरु सोहि दिनको २.०० बजे बोलपत्रदाता वा निजको प्रतिनिधिको रोहवरमा यस अस्पतालमा खोल्नेछ । बोलपत्रदाता/प्रतिनिधि उपस्थित नभएमा पनि बोलपत्र खोल्न कुनै बाधा पर्ने छैन ।
- २) बोलपत्र फारम खरिद गर्न लिखित निवेदन साथ आ.व. २०७१।०७२ सम्मको लागि नविकरण गरिएको सम्बन्धित व्यवसाय सञ्चालन गर्न पाउने इजाजत पत्र, फर्म दर्ता प्रमाण पत्र, आयकर दर्ता प्रमाण पत्र तथा मु.अ.कर दर्ता प्रमाणपत्र, आ.व. २०७०।०७१ सम्मको कर चुक्ता प्रमाणपत्र नोटरी पब्लिकबाट प्रमाणित गराई संलग्न राखी प्रोप्राइटर स्वयं उपस्थित भै वा Letter Head मा दस्तखत नमूना सहित आधिकारिक प्रतिनिधि पठाई बोलपत्र खरिद गर्न सकिनेछ ।
- ३) बोलपत्र फारम खरिद तथा दर्ता गर्ने अन्तिम दिन विदा पर्ने गएमा सो पछि कार्यालय खुलेको पहिलो दिनलाई अन्तिम दिन मानिनेछ । बोलपत्र पेश गर्दा खामको बाहिर यस अस्पतालको नाम सम्बोधन गरी ठेक्का नं. र सप्लाईको नाम खुलाई शिलबन्दी गरी पेश गर्नुपर्नेछ ।
- ४) बोलपत्र दाताले मान्यता प्राप्त वाणिज्य बैंक वाट यस अस्पतालको नाममा जारी भएको १२० दिन(बोलपत्र खोल्ने दिनबाट) म्याद कायम भएको बैंक जमानत (विडवण्ड) वा नेपाल राष्ट्र बैंक भैरहवा स्थित खाता नं १९०९२००.००९.००२४२४ कार्यालय कोड नं. ३७३७०।०४ मा नगद जम्मा गरेको सक्कलै बैंक भौचर बोलपत्र साथ संलग्न राख्नु पर्नेछ ।
- ५) बोलपत्र दाताले आफूले कबोल गरेको प्रत्येक आइटमहरुको मु.अ.कर बाहेकको दररेटलाई अंक र अक्षर दुवैमा उल्लेख गर्नु पर्नेछ । अंक र अक्षरमा लेखेको दररेट फरक परेमा अक्षरमा लेखिएकोलाई मान्यता दिइनेछ ।
- ६) बोलपत्रदाताले दररेट उल्लेख गर्दा केरमेट गरेको ठाउँमा र प्रत्येक पानामा सहिछाप नगरेको, टिपेक्स लगाएको, बोलपत्र फारमको फोटोकपी गरी पेश गरेको यस अस्पतालबाट बिक्रि नभएको, एक व्यक्ति वा फर्मका नाउँमा बिक्रि भएको बोलपत्र फारम अर्को व्यक्ति वा फर्मको तर्फबाट पेश गरेको वा आफ्नो तर्फबाट कुनै शर्त राखी पेश गरेको बोलपत्रलाई मान्यता दिइनेछैन ।
- ७) कारण जनाई वा नजनाई बोलपत्र पूर्ण वा आंशिक रुपमा स्विकृत गर्ने वा नगर्ने सम्पूर्ण अधिकार यस अस्पतालमा निहित रहनेछ ।
९. उपकरणहरुको स्पेसिफिकेशन बोलपत्र फारममा संलग्न गरिएको छ, बोलपत्रदाताले उल्लेख भएको स्पेसिफिकेशन अनुशारको मेशिनरी उपकरणहरु उपलब्ध गराउनु पर्नेछ ।
१०. शिलबन्दी बोलपत्र फारमका साथमा उपकरणहरुको निम्नानुसारका कागजात पेश गर्नुपर्नेछ ।

Original Catalogue & Details Literature

- क) Company को डिलरशिप प्रमाणको प्रमाणित प्रमाण पत्र
- ख) उक्त मेशिन बिक्रि पश्चात सेवा दिने सम्बन्धी प्रस्तावको विवरण (warranty period समेत) ।
- ग) सो कम्पनी र मोडलको त्यस्तै उपकरण नेपालका अन्य स्वास्थ्य संस्थामा आपूर्ति गरेको भए सो सम्बन्धी कागजात,
- घ) ISO तथा CE प्रमाणको प्रमाणित पत्र
११. प्रत्येक ठे.नं. को प्रत्येक आइटमहरु छुट्टा छुट्टै स्वीकृत गरिनेछ । बोलपत्र फारम साथ संलग्न स्पेसिफिकेशन अनुसारका मेशिनरी उपकरण उपलब्ध गराउनु पर्नेछ । साथै आफूले आपूर्ति गर्ने मेशिनरी उपकरण यस अस्पतालमा उपलब्ध गराई सम्बन्धीत चिकित्सक, नर्स तथा कर्मचारिहरुलाई संचालन सम्बन्धी आवश्यक तालिम दिनुपर्नेछ ।
१२. स्विकृत बोलपत्रदाताले उपकरण तथा मेशिनहरु यस अस्पतालमा ल्याइ जडान गरिदिनुपर्ने छ । मेशिन तथा उपकरणहरु सञ्चालनका लागि आवश्यक प्राविधिक तालिम समेत गराई मेशिन सन्चालन भए पश्चात मात्र भुक्तानी गरीने छ । ढुवानी तथा जडान खर्च बोलपत्रदाता स्वयले नै व्यहोर्नु पर्नेछ ।
१३. यस सम्बन्धमा कुनै कुरा बुझ्नु परेमा कार्यालय समयमा यस अस्पतालमा सम्पर्क राख्न सकिनेछ ।
१४. बोलपत्रसाथ उपकरणको क्याटलक र स्पेसिफिकेशन समेत पेश गर्नुपर्नेछ ।
१५. बोलपत्रदाताले दर्ता भै सकेको बोलपत्रमा कुनै संशोधन गर्न वा बोलपत्र फिर्ता लिन चाहेमाबोलपत्र दर्ता गर्ने अन्तिम मिति र समय अगावै नै व्यहोरा खुलाई शिलबन्दी निवेदन दिनु पर्नेछ ।
१६. यो सूचनामा उल्लेख हुने छुट्टा भएका अन्य कुराहरु सार्वजनिक खरिद ऐन २०६३ र सार्वजनिक खरिद नियमावली २०६४ बमोजिम हुनेछ ।
१७. बोलपत्र सम्बन्धी सूचना यस अस्पतालको वेबसाईट [www.lzhospital.gov.np](http://www.lzhospital.gov.np) मा पनि हेर्न सकिनेछ ।

तपशिल

क्र.सं.	छे.नं.	विवरण	ल.ई रकम (भ्याट बाहेक)	धरौटी	बोलपत्र दस्तुर
१	१६ "क" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	५३,९८,२३०।०८	१,६८,०००।००	१,०००।००
२	१६ "ख" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	५१,३२,७४३।३६	१,५९,५००।००	१,०००।००
३	१६ "ग" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	४८,६७,२५६।६४	१,५१,५००।००	१,०००।००
४	१६ "घ" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	३२,४४,२४७।९२	१,०१,०००।००	१,०००।००
५	१६ "ङ" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	२७,८७,६१०।६६	८७,०००।००	१,०००।००
६	१६ "च" / ०७१ / ०७२	आई.सि.यू.को लागि मेशिनरी उपकरणहरु आपूर्ति गर्ने कार्य	२७,८३,१८५।८४	८६,५००।००	१,०००।००

मेडिकल सुपरिन्टेण्डेण्ट

## Technical specification form:

### *Specification & Statement of Compliance, Fully Automated Bio-Chemistry Analyser*

Bidders are to offer a **standard production model** most closely matching the specification below and provide details of the offer. **The offer must be for brand new equipment.**

These specifications are for the **minimum requirement**. Bidders may offer higher specifications but they are to highlight these in the Statement of Compliance column. Units are to be stated using the SI system. For example length in metres (m). Multiples and sub-multiples to be used are:  $10^6$  mega (M);  $10^3$  kilo (k);  $10^{-3}$  milli (m) and  $10^{-6}$  micro ( $\mu$ ).

**Bidders must enter their offered specifications against each parameter of this Technical Specifications Form (TSF), comment as necessary, and sign and stamp each page. Failure to complete this statement of compliance may result in the offer being rejected. A Bidder who enters texts such as "Yes", "Complied", "Better", "Refer to catalogue", and directly copying the Purchaser's descriptions, leaving any parameter line blank and/or submit any text or content of this nature may result in the offer being rejected.**

**The Statement of Compliance must be substantiated with authenticated catalogue/data sheet/ manual with the page number of original catalogue/datasheet/manual of the relevant**

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	<b>Fully Automated Bio-Chemistry Analyser</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	For analysis of serum, plasma, urine, cerebrospinal fluid (CSF), hemolysate, whole blood and therapeutic drugs (TDM), drugs of abuse immunoturbidimetric assays.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Must be open system and fully computerized with random access, selective multi-batch type, providing maximum flexibility in programming			
2.2	Must be capable of undertaking 200			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	tests/hr. involving fixed time, end point and kinetic chemistry.			
<b>3</b>	<b>System Configuration</b>			
3.1	Fully Automated Bio-Chemistry Analyser with integrated printer and computer and with complete accessories.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	Optical Requirement: <ul style="list-style-type: none"> <li>Wavelength Range: 340 to 700nm</li> <li>Absorbance: 0.000 to 3.000A</li> <li>Resolution: 0.0001A or better</li> <li>Measurement: Monochromatic &amp; Bio chromatic options.</li> <li>Flow cell volume: approx. 50µl</li> <li>Source of light: Halogen lamp with very long life.</li> </ul>			
4.2	Reagent Handling System: <ul style="list-style-type: none"> <li>Pre and Post dilution: Automatic</li> <li>Aspiration volume: 5-50µl in 0-0.5µl increments</li> <li>Wash Cycles: Programmable for aspiration and sampling probes</li> </ul>			
4.3	Analytical Requirements: <ul style="list-style-type: none"> <li>Sample Tray/reaction plate: &gt;50 positions for samples/ standards/ controls</li> <li>Sample cups: 0.5-1ml</li> <li>Reaction types: End point, kinetic- differential and initial rate bichromatic, with &amp; without blank correction</li> <li>Test Parameters: 50 or more, all programmable as per user requirement.</li> <li>Incubation Temp: 37°C preferably with variable temperature options</li> <li>Cuvette Temp: 37°C +0.1°C</li> <li>Quality control: Daily and monthly with good real time QC programme with L-J graphsprintout of QC charts &amp; reports.</li> <li>Calculated and precision check</li> </ul>			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	facility			
4.4	Must have self-diagnostic tests with error message & online display.			
4.5	Must be programmable for all test menus & state of the art workstation.			
4.6	Must have built in cooled reagent compartment to maximise reagent stability			
4.7	Must have continuous samples loading facility.			
4.8	<b>Data Management Software:</b> The equipment shall be supplied with compatible, programme windows base comprehensive data processing & management system. Graphical user interface software, user friendly, test oriented, LIMS capability. Complete back up of the data base for calibration control and patient samples result.			
4.9	<b>PC:</b> Latest configuration, Core i5 with high speed processor and with instrument operating and data management software, 19" or more LCD flat monitor, wireless keyboard and mouse, 2 GB RAM, 180 GB HDD, 128 MB Graphic card, CD/DVD read/write drive and with latest version of Operating system MS Windows, OEM software. Facility to store at least 10,000 patient's data storage and multitasking facility on computer.			
4.10	Inbuilt printer thermal type with 40 characters/line or better.			
4.11	Shall come with compatible laser printer.			
4.12	Shall supply reagent pack for 1000 tests with cleaning solution and quality control solution and 3 set of printer paper roll.			
<b>5</b>	<b>Accessories, spares and consumables</b>			
5.1	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).			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
<b>6</b>	<b>Operating Environment</b>			
6.1	The system offered shall be designed 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. The power cable must be at least 3 metre in length.			
6.3	Shall provide compatible servo voltage stabilizer and UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.			
<b>7</b>	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices <b>AND</b>			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			
7.3	Shall meet IEC 61010-2-081 safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.			
<b>8</b>	<b>User Training</b>			
8.1	Must provide user training (including how to use and maintain the equipment).			
<b>9</b>	<b>Warranty</b>			
9.1	Comprehensive warranty for 2 years after acceptance.			
<b>10</b>	<b>Maintenance Service During Warranty Period</b>			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
<b>11</b>	<b>Installation and Commissioning</b>			
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
<b>12</b>	<b>Documentation</b>			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance)			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	manual in English			
12.3	List of important spare parts and accessories with their part number and costing.			
12.4	Certificate of calibration and inspection from factory.			

## Technical specification form:

### *Specification & Statement of Compliance, Fully Automated Haematology Analyser (Blood Cell Counter)*

Bidders are to offer a **standard production model** most closely matching the specification below and provide details of the offer. **The offer must be for brand new equipment.**

These specifications are for the **minimum requirement**. Bidders may offer higher specifications but they are to highlight these in the Statement of Compliance column. Units are to be stated using the SI system. For example length in metres (m). Multiples and sub-multiples to be used are:  $10^6$  mega (M);  $10^3$  kilo (k);  $10^{-3}$  milli (m) and  $10^{-6}$  micro ( $\mu$ ).

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**The Statement of Compliance must be substantiated with authenticated catalogue/data sheet/ manual with the page number of original catalogue/datasheet/manual of the relevant**

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	<b>Fully Automated Haematology Analyser (Blood Cell Counter)</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	Automated haematology analyser or			



S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	complete blood cell counter is used to count various types of blood cells in the blood.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Fully automated haematology analyser that measures 18 parameters including WBC 5-part differential is required.			
2.1	It shall be open system.			
<b>3</b>	<b>System Configuration</b>			
3.1	Fully Automated Haematology Analyser, complete unit with all standard reagents, consumables and accessories.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	Parameters to be measured are: WBC, LYM%, LYM, MON%, MON, GRA%, GRA, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW.			
4.2	Large LCD display for all parameters, histograms, scattergrams.			
4.3	Shall have: <ul style="list-style-type: none"> <li>Histogram: WBC 5-part differential distribution, RBC distribution, PLT distribution.</li> <li>Two Scattergrams.</li> </ul>			
4.4	The instrument must have throughput of more than 60 samples per hour in all the discrete analysis modes.			
4.5	The sample aspiration volume for the complete differential blood count must not be more than 150 µl.			
4.6	Principle of working: <ul style="list-style-type: none"> <li>RBC/ Platelet count: Impedance Method/hydrodynamic focussing.</li> <li>Differential Parameters &amp; Reticulocyte: Semiconductor Laser based Flow Cytometry, fully automated.</li> <li>Haemoglobin Measurement: Colorimetric/ Cyanide free method.</li> </ul>			
4.7	It shall have whole blood open vial and closed vial mode, capillary mode/ pre-dilute mode.			
4.8	It shall have automatic start up, shut down and sample analysis.			
4.9	Multichannel analysis for better resolution.			
4.10	It shall have autoloader, 50 samples or more at a time.			
4.11	Automatic probe wipe.			
4.12	Automatic clot detection technology.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
4.13	It shall have user definable flagging system for various results.			
4.14	Various sensors must check the condition of the instrument, if any abnormality is detected, an error message be displayed so that occurrence of trouble is prevented.			
4.15	Shall have integrated thermal printer.			
4.16	Quality assurance system with calibrators & controls.			
4.17	It shall have Bar Code Generation and reader facility (External as well internal).			
4.18	On board memory for about 200-250 tests records.			
4.19	Shall have RS 232C port.			
4.20	PC: Computer with latest configuration, 19" or more flat monitor, optical mouse keyboard, CD, DVD read/write device and with latest software for storage of at least 5000 samples data with histogram & scattergram.			
4.21	Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it must be valid for at least 3 years.			
<b>5</b>	<b>Accessories, spares and consumables</b>			
5.1	Reagents & consumables, calibrators & controls, printer paper to be supplied for 1000 test.			
5.2	Shall provide compatible laser printer, 1 no.			
5.3	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).			
<b>6</b>	<b>Operating Environment</b>			
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: 220-240VAC, 50Hz fitted with appropriate plug type D (3 pins). The power cable must be minimum 3 meters long.			
6.3	Shall provide suitable servo voltage stabilizer and UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up for the entire system including computer			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	and printer shall be supplied with the system.			
<b>7</b>	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices <b>AND</b>			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			
7.3	Shall meet IEC 61010-2-081 safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.			
<b>8</b>	<b>User Training</b>			
8.1	Must provide user training (including how to use and maintain the equipment).			
<b>9</b>	<b>Warranty</b>			
9.1	Comprehensive warranty for 2 years after acceptance.			
<b>10</b>	<b>Maintenance Service During Warranty Period</b>			
10.1	During the warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required.			
<b>11</b>	<b>Installation and Commissioning</b>			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
<b>12</b>	<b>Documentation</b>			
12.1	User (Operating) manual in English.			
12.2	Service (Technical / Maintenance) manual in English.			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

## Technical specification form:

### *Specification & Statement of Compliance, Coagulometer*

Bidders are to offer a **standard production model** most closely matching the specification below and provide details of the offer. **The offer must be for brand new equipment.**

These specifications are for the **minimum requirement**. Bidders may offer higher specifications but they are to highlight these in the Statement of Compliance column. Units are to be stated using the SI system. For example length in metres (m). Multiples and sub-multiples to be used are:  $10^6$  mega (M);  $10^3$  kilo (k);  $10^{-3}$  milli (m) and  $10^{-6}$  micro ( $\mu$ ).

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**The Statement of Compliance must be substantiated with authenticated catalogue/data sheet/ manual with the page number of original catalogue/datasheet/manual of the relevant**

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	<b>Coagulometer</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	Coagulometer measures the blood clotting parameters.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	Microprocessor controlled system.			
<b>3</b>	<b>System Configuration</b>			
3.1	Coagulometer complete unit with printer and with complete accessories.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	16 incubation positions for samples (4 cells x 4 columns).			
4.2	Shall have 2 measurement channels.			
4.3	2-4 positions for reagents (one with magnetic stirrer) and 2 pipette wells.			
4.4	Four independent built in timers for incubation.			
4.5	Measurement possible in plasma.			
4.6	Automatic pipette (electronically connected or manual start up).			
4.7	Backlight LCD display, 4 lines of 40 characters			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	with built in printer.			
4.8	Results in seconds and in various units (% INR, Ratio, Gm. / L mg/ds, IC/ml).			
4.9	RS 232 interface.			
4.10	Incubation and measurement wells at 37°C +/- 0.5°C.			
4.11	Tests: PT, PTT, TT, FIB (Clauses and PT derived), Factor II, V, VII, VIII, IX, X, XI, XII, Fletcher, VT (Venom time), APCR, AT-III (clot), Protein C (clot), Protein S (clot), Heparin, STAT (PT/PTT).			
<b>5</b>	<b>Accessories, spares and consumables</b>			
5.1	<b>Accessories:</b> <ul style="list-style-type: none"> <li>• Double Cuvettes: 500 Pcs.</li> <li>• Stage auto pipette: 1 Pc. each (25/50/100/200µl)</li> <li>• Reagent Adaptor 22,5mm: 1 Pc.</li> <li>• Reagent Adaptor 22,8mm: 1 Pc.</li> <li>• Reagent Adaptor 24,2mm: 1 Pc.</li> <li>• Reagent Adaptor 27,8mm: 1 Pc.</li> <li>• Reagent Adaptor 25,2mm: 1 Pc.</li> <li>• Stirring magnets: 4 Pcs.</li> <li>• Reagent container 22,4mm: 100 Pcs.</li> <li>• Reagent tubes 16mm: 100 Pcs.</li> <li>• Thermal Printer with printer cable: 01 no.</li> <li>• Thermal Paper : 10 rolls</li> </ul>			
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. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
<b>6</b>	<b>Operating Environment</b>			
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: 220-240VAC, 50Hz fitted with appropriate plug type D (3 pins). The power cable must be minimum 3 meters long.			
6.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up shall be supplied with the system.			
<b>7</b>	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices <b>AND</b>			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
7.3	Shall meet IEC 61010-1 safety requirements for electrical equipment for measurement, control, and laboratory use.			
<b>8</b>	<b>User Training</b>			
8.1	Must provide user training (including how to use and maintain the equipment).			
<b>9</b>	<b>Warranty</b>			
9.1	Comprehensive warranty for 2 years.			
<b>10</b>	<b>Maintenance Service During Warranty Period</b>			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
<b>11</b>	<b>Installation and Commissioning</b>			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
<b>12</b>	<b>Documentation</b>			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

## Technical specification form:

### *Specification & Statement of Compliance, Electrolyte Analyser*

Bidders are to offer a **standard production model** most closely matching the specification below and provide details of the offer. **The offer must be for brand new equipment.**

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S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
	<b>Electrolyte Analyser</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type / Model</b>			
	<b>Country of Origin</b>			
<b>1</b>	<b>Description of Function</b>			
1.1	ISE electrolyte analyser (Na <sup>+</sup> , K <sup>+</sup> , Ca <sup>++</sup> , Cl <sup>-</sup> ) for analysis of serum, plasma, urine, whole blood.			
<b>2</b>	<b>Operational Requirements</b>			
2.1	It shall be open system and based on ISE technology.			
<b>3</b>	<b>System Configuration</b>			
3.1	Electrolyte analyser with integrated printer and with complete accessories.			
<b>4</b>	<b>Technical Specifications</b>			
4.1	Microprocessor controlled electrolyte analyser with the measured parameter of Na <sup>+</sup> , K <sup>+</sup> , Ca <sup>++</sup> and Cl <sup>-</sup> .			
4.2	Sample volume shall be less than or equal to 100ul.			
4.3	Analysing time-less than 60 seconds/test, sample throughout 50-60samples/hour.			
4.4	Shall have fully automatic calibration of all parameters.			
4.5	Maintenance free electrodes with long warranty.			
4.6	Shall have data display on built in LCD display screen.			
4.7	Shall have fully visible measuring chamber.			
4.8	Standby mode facility user controlled and automatic for economical operations.			
4.9	QC data, memory storage and calibration results.			
4.10	Shall have automatic flagging of abnormal result.			
4.11	It shall have only one reagent module for all standards and wash solutions and waste also shall be collected in the same module.			
4.12	It shall have only one cleaning reagents for electrodes and daily maintenance.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
4.13	Inbuilt thermal printer for printing patient data and facility to interface with computer and external printer.			
4.14	It shall have a memory of at least 20 samples.			
4.15	Shall supply reagent pack for 1000 tests with cleaning solution and one quality control solution and 3 set of printer paper roll.			
<b>5</b>	<b>Accessories, spares and consumables</b>			
5.1	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).			
<b>6</b>	<b>Operating Environment</b>			
6.1	The system offered shall be designed 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. The power cable must be at least 3 metre in length.			
6.3	Shall provide compatible servo voltage stabilizer and UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.			
<b>7</b>	<b>Standards and Safety Requirements</b>			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices <b>AND</b>			
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.			
7.3	Shall meet IEC 61010-2-081 safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.			
<b>8</b>	<b>User Training</b>			
8.1	Must provide user training (including how to use and maintain the equipment).			
<b>9</b>	<b>Warranty</b>			
9.1	Comprehensive warranty for 2 years after acceptance.			
<b>10</b>	<b>Maintenance Service During Warranty Period</b>			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			



S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no of catalogue/datasheet/manual
<b>11</b>	<b>Installation and Commissioning</b>			
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
<b>12</b>	<b>Documentation</b>			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part number and costing.			
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Government of Nepal  
Ministry of Health & Population  
**LUMBINI ZONAL HOSPITAL**  
**BUTWAL**

**Name of work :- Supply of Equipment for ICU**  
**Location :Lumbini Zonal Hospital, Butwal Rupandehi**

F/Y :- 2071/072

**BILL OF QUANTITY**

S.No	Description	Unit	Quantity	Rate		Amount	Remark
				In Figure	In Word		
1	Automated Haematolgy Analyzer Blood Cell Counter	Set	1				
2	Electrolyte Analyser	Set	1				
3	Automated Biochemistery Analyser	Set	1				
4	Coagulometer	Set	1				
				Sub Total Rs			
				Add VAT @ 13 %			
				Grand Total Rs			