



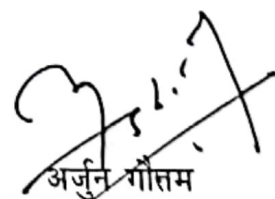
माडी नगरपालिका
नगर कार्यपालिकाको कार्यालय

बसन्तपुर, खिवन
वागमती प्रदेश, नेपाल

मेडिकल उपकरण खरिद सम्बन्धी सूचना
(प्रथम पटक प्रकाशित मिति: २०७८/०३/०३ गते)

यस कार्यालयको चालु आ.व.२०७७/७८ को स्वीकृत वार्षिक कार्यक्रम अनुसार कार्यालयलाई आवश्यक पर्ने देहाय वमोजिमको मेडिकल उपकरण सार्वजनिक खरिद ऐन २०६३ को दफा ८ को उपदफा १ क(८) तथा सार्वजनिक खरिद नियमावली २०६४ को नियम ३१(ख) वमोजिम त्यस्तो मेडिकल उपकरण उत्पादक कम्पनी वा सो को आधिकारिक विक्रेताहरूले आफ्नो फर्म दर्ता, मु.अ.क. दर्ता, एजेन्सी दर्ता प्रमाणपत्र, Letter of Authorization र आ.व. ०७६/७७ को आयकर चुक्ता प्रमाणपत्रको प्रमाणित प्रतिलिपिहरू समावेश गरी सार्वजनिक खरिद नियमावली २०६४ को नियम ३१(ख) उपनियम (२) अनुसार देहाय वमोजिमको मेडिकल उपकरण उत्पादकको आधिकारिक स्पेसिफिकेसन, गुणस्तर र कम्पनीको आधिकारिक मुल्य खुल्ने कागजात (क्याटलग वा ब्रोसर) संलग्न राखि यो सूचना प्रकाशित भएको मितिले ७ दिन भित्र यस कार्यालयमा प्रस्ताव दर्ता गर्नु हुन सम्बन्धित उत्पादक वा आधिकारिक विक्रेताको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ ।

क्र.स.	मेडिकल उपकरणको नाम	सन्क्षिप्त स्पेसिफिकेसन	संख्या	कैफियत
१.	ABG Machine	Cartridge Type	१	
२.	Portable X-Ray Machine	100 mA	१	
३.	ECG Machine	12- Channel	१	
४.	Electrolyte Analyzer	Sodium, Potassium	१	
५.	Pateint Monitor	5 Parameter	२	
६.	Centrifuge-16 Holes (Minimum)	Brushless	१	
७.	Water Bath for Lab		१	


अर्जुन गौतम

प्रमुख प्रशासकीय अधिकृत

प्रमुख प्रशासकीय अधिकृत

Technical Specification of ABG Machine :

S.No	Technical Specifications	Remarks
	Manufacturer :	
	Country Of Origin :	
	Made In :	
	Model No :	
1.	Principle: Must have microchip multifunctional biosensor membrane technology.	
2.	Technology : Advanced single use test cartridge to avoid contamination.	
3.	Calibration : Must have automatic calibration in each test.	
4.	Display : >7" Touchscreen.	
5.	Sample Volume : Approx.120ul	
6.	Sample Type : Whole Blood, Serum, Plasma, Dialysate, CSF	
7.	Sample mode : Must have minimum 6 types of sample mode available.	
8.	Measured Parameters : PCO ₂ , PO ₂ , PH, Na, K, Ca, Cl, Hct, Glu, Lac which should come in single cartridge.	
9.	Analysis Time : Approx. 60 seconds after sample aspiration.	
10.	Maintenance Pattern : Must have Zero Maintenance of the instrument without any chance of blood clot inside instrument.	
11.	Networking : Built-in Wireless or integrated LIS/HIS.	
12.	Standby mode: Standby mode without consumption of Reagents.	
13.	Multimedia Features : Must have inbuilt multimedia Tutorials for easy handling.	
14.	Power : Should have AC 100-240V (Auto voltage regulator to prevent the voltage fluctuation), 50Hz/60Hz.	
15.	Data Storage : >10000	
16.	Battery Back up : Must have a minimum 5000mAh Battery Backup system of rechargeable lithium-ion battery for minimum 50 samples continuous testing.	
17.	Interface: 4*USB, 1*RS232, WLAN, Integrated Bar-code reader.	
18.	Printer : Inbuilt thermal printer	
19.	Weight : <4Kg(Including Battery)	
20.	Reagent Cartridge Stability: Minimum 12 months stability of Test cartridge in 2-8 degree.	
Terms and Conditions		
21.	CE and US-FDA Certificates must be approved	
22.	The supplier must submit the original brochure or e-copy.	
23.	Should have 1years of complete parts warranty.	

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प्रमुख प्रशासकीय अधिकृत

Specification of 100mA Spring Balance Mobile Line Frequency X-Ray Machine

CONFIGURATION OFFERED:

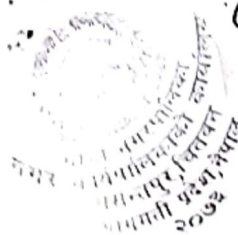
X-Ray Generator	: -	EP 100 It is a 2-pulse full wave rectified x-ray generator.
MOBILE STAND	: -	It is a mobile on wheels. It has Spring Balanced with Double steel rope for safety.
X-Ray Tube	: -	Single focus 2.8 mm tube, DSA-3 or XD-3. Self-contained Stationary X-Ray Tube. Tube head must be articulated type and 360 deg rotation of tube must be available.
COLLIMATOR	: -	Light beam collimator for centering & radiation Protection.

FEATURES OF EP 100 (100MA X-RAY UNIT):

- 100mA, 100KVP, Full Wave Rectified X-Ray Machine.
 - Maximum Output 8KW
 - The Panel has soft touch Keys for selection of various parameters.
 - KVP Range is 40-100 in steps of 2KV.
 - Radiography Timer is micro controlled from 0.02 to 8 seconds.
 - All Parameters i.e. KV, mA, mAS and Time are displayed on colored graphical TFT.
 - Independent Voltmeter has an integrated part of console.
 - Machine has at least 200 APR (Anatomical Programmed).
 - Password protected X-Ray Counter (No. of X-rays) has displayed on TFT.
 - Upgradation of software is possible in field.
 - Inbuilt Self diagnostic check and independent check for various faults should be there.
 - Power Supply – 230VAC, Single Phase, $\pm 10\%$, line regulation.
-
- ❖ Guarantee of Machine should be minimum one year.
 - ❖ Company shall be ISO & Quoted equipment approved by AERB, CE Mark & ISI certified.

gk

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32.17
TOTAL ESTIMATE 20/04/2024

Evaluation of ECG Machine Portable (12 Channel)

S.N.	Purchaser's Specifications	Bidder's Offer
	ECG Machine Portable (12 Channel)	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
	ECG Machine is primary equipment to record ECG Signal in various configurations.	
2	Operational Requirements	
2.1	Portable digital ECG machine must be able to acquire all 12 leads simultaneously.	
3	System Configuration	
3.1	Portable digital ECG machine with complete accessories	
4	Technical Specifications	
4.1	Simultaneous recording of 12 standard leads: aVR, aVL, aVF, I, II, III and V1-6 pre-cordials.	
4.2	Internal memory for data storage.	
4.3	Splash-resistant function keys	
4.5	Filter setting for line-frequency and tremor.	
4.6	Continuous check on the quality of electrodes connection, audio visual alert on loss of signal	
4.7	Appropriately protected for operation during defibrillation.	
4.8	7" touch screen LCD display with display shows ECG-curves, heart rate, patient name and ID, time, speed and filter setting.	
4.9	Front panel provides indication of system and battery status, electrode connection	
4.10	Built-in high-resolution thermal printer automatic and manual print-out mode.	
4.12	Number of channels printed is user selectable: 3, 6 or 12.	
4.14	Paper speed, user adjustable: 5, 25 and 50mm/sec.	
4.15	Sensitivity of 5, 10, 20 mm/mV	
4.17	Rechargeable battery integrated in device.	
5	Accessories, spares and consumables	
5.1	Accessories:	
	Patient cable-1 no.	
	Reusable chest electrodes, suction ball-type- 6 nos.	
	Extremity clamp electrodes, reusable- 4 nos.	
	Recording thermal paper - 10 Rolls	
	Bottles of electrode gel, approximately 350 ml- 1 nos.	
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).	
6	Operating Environment	
6.1	The system 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,	

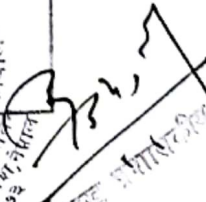
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Electrolyte analyzer Specification:

S.N.	Purchaser' s Specifications	Bidder' s Compliance Sheet			
		Yes	No	Page No. in Catalogue	Remarks
	Electrolyte Analyser				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	ISE electrolyte analyser (Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺) for analysis of serum, plasma, urine, whole blood.				
2	Operational Requirements				
2.1	Electrolyte analyser Based on ISE technology.				
3	System Configuration				
3.1	Electrolyte analyser with integrated printer and with complete accessories.				
4	Technical Specifications				
4.1	Microprocessor controlled electrolyte analyser with the measured parameter of Na ⁺ , K ⁺ , Cl ⁻ & Ca ⁺⁺				
4.2	Sample volume: 90ul(maximum)				
4.3	Analysing time-less than 60 seconds/test.				
4.4	Calibration: Should be fully automatic and on demand calibration must also be available with time interval of 4hr, 8hr				
4.5	Maintenance free electrodes with warranty.				
4.6	Shall have data display on built in LCD touchscreen display screen.				
4.7	Should have Maintenance free electrodes.				
4.8	Standby mode facility user controlled and automatic for economical Operations				
4.10	Result storage capacity of minimum 100,000 data.				
4.11	Shall have automatic flagging of abnormal result.				
4.12	It shall have only one cleaning reagents for electrodes and daily maintenance.				
4.13	Inbuilt thermal printer for printing patient data and facility to interface with computer an external printer.				
4.14	Two point calibration should be available.				
4.15	Shall supply reagent pack for 1000 tests with cleaning solution and one quality control solution and 3 set of printer paper roll.				
5	Accessories, spares and consumables				
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				


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 Civil Engineer
 2022

6	Operating Environment				
6.1	The system 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. The power cable must be at least 3 metre in length.				
7	Standards and Safety Requirements				
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND				
7.2	CE (93/42 EEC Directives) approved product certificate.				
8	User Training				
	Must provide user training (including how to use and maintain the				
8.1	equipment).				
9	Warranty				
9.1	Comprehensive warranty for 1 year and extra 1 year free AMC				
10	Maintenance Service During Warranty Period				
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.				
11	Installation and Commissioning				
11.1	Supplier must accomplish proper installation and commissioning of the equipment on site.				
12	Documentation				
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.				

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the 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.

Signature
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 Biomedical Engineer
 M.C No 83

Signature
 2023-07-17
 10:45 AM
 10-10-2023
 10:45 AM

Technical Specification of Patient Monitor 5 Parameter

S.N	Purchase's Specifications	Bidder's Offer
	Patient Monitor 5 Parameter	
	Manufacturer	
	Brand	
	Type /Model	
	Country Of Origin	
1	Description Of Function	
1.1	It should be suitable for usage in operation room and ICU capable of monitoring ECG, SPO2, NIBP, Respiration Rate, Temperature	
2	Operational Requirement	
2.1	It shall operate on AC power supply as well as built-in-battery.	
3	System Configurations	
3.1	Multiparameter monitor with complete accessories.	
4	Technical Specification	
4.1	Should have 12.1" TFT color LCD screen	
4.2	Should finish all operation by keys and knobs	
4.3	Should be applicable for adult, paediatric & neonate patients	
4.4	Should have sync display of 8 -lead ECG	
4.5	Monitoring contents, scan speed, volume and output content could be set optionally	
4.6	Waveform and parameters color could be set optionally	
4.7	Alarm Items: technical alarm, physiological alarm and arrhythmia alarms	
4.8	Should have digital SPO2 technology, which strong has anti interference and anti weak filling capacity	
4.9	Should have trend review for 480 hour, review for 2400 groups of BP data	
4.10	Should have facility of calculation of drug concentration	
4.11	Should have facility of central monitoring station, other bed observation and software update	
4.12	Should have built-In rechargeable battery for uninterrupted monitoring	
4.13	Should have anti-high frequency surgical unit, defibrillation proof	
4.14	ECG:	
	Should be able to monitor ECG through 5-Lead patient cable	
	Should be able to display Lead I, II, III, aVR, aVL, aVF, V	
	Should be able to monitor heart rate from 15-350 bpm	
	Should have ST segment monitoring	
4.15	SPO2	
	Should use digital technology for monitoring SPO2	

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	Should have measuring range from 0-100 %
	Should have alarm range: 0-100 %
	Pulse rate measuring range: 25-250 bpm
4.16 NIBP:	
	Should have oscillometric method for measurement of NIBP
	Mode: Manual, Auto, STAT
	Should have systolic measuring range of 40-270 mmHg
4.17 Respiration:	
	Method: impedance between R-F (RA-LL)
	Respiration Rate: 0-150 rpm
4.18 Temperature:	
	Channel-02
	Measuring range: 0-50 degree Celsius
5	Accessories, Consumables & Spare Parts
5.1	Each monitor should be supplied with standard accessories
6	Operating Environment
6.1	The system 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.
7	Standards & Safety Requirements
7.1	Must submit ISO13485:2003/AC:2007 AND
7.2	Must submit CE and USFDA approved product certificate
7.3	Must Submit IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9	Warranty
9.1	Comprehensive warranty for 1 year after acceptance.
10	Maintenance Service During Warranty Period
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.
11	Installation and Commissioning
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.
12	Documentation
12.1	User (Operating) manual in English.

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Technical Specification for Water Bath and Centrifuge

S.No.	Item Name	Specification	Specify Make	Specify Model:
1	Centrifuge	16 Hole, Brushless		
2	Water Bath	12 X 12 mm		

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