बराहक्षेत्र नगरपालिका
नगर कार्यपालिकाको कार्यालय
चक्रघट्टी सुनसरी
१ नं. प्रदेश नेपाल

च.नं. :
प.सं. : ०७७/७८

मिति :-

स्वास्थ्य सम्बन्धी औजार तथा उपकरणहरु खरिद सम्बन्धी सूचना

प्रथम पटक प्रकाशित मितीः २०७८/०२/२२

यस कार्यालयको आ.व. २०७७।७८ को स्वीकृत बार्षिक कार्यक्रम तथा सातौ नगर सभाको संसोधित कार्यक्रम अन्तर्गत वराहक्षेत्र नगर अस्पताललाई अस्पताल व्यवस्थापन उपकरण खरिद शिर्षक अनुसार नगर अस्पताललाई आवश्यक पर्ने देहाय बमोजिमको मेसिनरी उपकरण सार्वजनिक खरिद ऐन २०६३ (पहिलो संसोधन २०७३) को दफा ८ को उपदफा १ (क८) तथा सार्वजिनक खरिद नियमावली २०६४ (चौथो संसोधन २०७३) को नियम ३१(ख) बमोजिम त्यस्तो मेसिनरी उपकरण उत्पादक कम्पनी वा सो को आधिकारिक बिक्रेताहरु बीच मात्र प्रतिस्पर्धा गराउने (क्याटलग सपिङ्ग) बिधिबाट खरिद गर्नुपर्ने भएकोले इच्छुक इजाजत प्राप्त उत्पादक कम्पनी वा त्यसको आधिकारिक बिक्रेताहरुले आफ्नो फर्म दर्ता, भ्याट दर्ता, एजेन्सी दर्ता प्रमाण पत्र, आधिकारिकताको प्रमाण पत्र (Letter of Authorization) र आ.व.२०७६।७७ को आयकर चुक्ता प्रमाणपत्रको प्रमाणित प्रतिलिपिहरु समावेश गरी सार्वजनिक खरिद नियमावली २०६४ को नियम ३१ (ख) को उपनियम २ अनुसार देहाय बमोजिमको उपकरणको उत्पादकको आधिकारिक स्पेशिपिकेशन, गुणस्तर र कम्पनिको आधिकारिक मुल्य खुल्ने कागजात (क्याटलग वा ब्रोसर) संलग्न राखि सो सूचना प्रकाशित भएको मितिले ७(सात) दिन भित्र यस कार्यालयमा प्राविधिक प्रस्ताव दर्ता गर्नु हुन सम्बन्धित उत्पादक वा आधिकारिक विक्रेताको जानकारीको लागि यो सूचना प्रकाशित गरिएको छ ।

औजार उपकरणहरुको बिबरण निम्न अनुसार रहेको छ :

राजेश प्रसाद पोखरेल
प्रमुख प्रशासकीय अधिकृत

Technical specification of Computed Radiography (CR) System

S.N.	Purchaser's Technical Specifications	Bidder's Compliance Sheet			
	Computed Radiography (CR) System	**Yes**	**No**	**Page No. in Catalogue**	**Remarks**
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1.	**Description of Function**				
a.	Radiography system to replace conventional Film/Screen based X-Ray processing techniques with Photostimulable Phosphor Plate technology to obtain digital X-ray images.				
2.	**Operational Requirements**				
a.	The system shall be able to record X-Ray images on Imaging Plates (IP)				
b.	Convert these images from the IP into digital values and transfer these values to an image evaluation computer with predefined Image Processing Parameters.				
c.	Operationally and functionally equivalent to and better than the present film based system.				
3.	**System Configuration**				
a.	Image Reader system: 01				
b.	CR Workstation: 01				
c.	RIS Interface: 01				
d.	Remote ID and Preview station: 01				
e.	Archiving System: 01				
f.	Dry view imaging printer(film based), and double tray type :01				
4	**Technical Specifications**				
4.1	**Image Reader**				
a.	IP processing rate minimum 45 films/hror more for 14 x 17 inches cassette.				
b.	Scanning mechanism to read, erase and process the images from the imaging plate. (IP)				
c.	Panel for indicating online status of the CR Reader in case of machine malfunction				
d.	Emergency Mode for accepting exposed cassettes without patient demographics for casualty trauma workflow requirements				
e.	Verification of the connectivity status of configured image destination				
f.	Spatial resolution of digital image 6-10 pixels/mm.				
g.	CR System should have data acquisition of 16 bits or more				

h.	X-Ray Generator compatibility with reputed manufacturers.				
i.	CR system should have the capability of processing the cassettes both in standard and high speed mode.				
j.	Image matrix at standard resolution (14 x 17) - 3000 x 4000 Row x Column				
4.2	**CR Workstation:**				
a.	Capable of Archiving and printing selected images to a standard DICOM destination in DICOM 3.0 format				
b.	Storing images in the local disk for predefined period.				
c.	Sorting of patient image based on name, date, exam etc.				
d.	Using predefined parameters or user defined and stored image parameters				
e.	Correcting typographical in patient demographic module, in case RIS connection was down and manual data entry was done.				
f.	Capability of changing R/L, Flipping, Rotating, Zooming, Collimating, annotating the incoming image.				
g.	Multi-image and slide formats				
h.	Capability of storing in CD/DVD.				
i.	Software for Advance Image processing, applications, display and quality monitoring.				
j.	Connectivity and compatibility to communicate to RIS/HIS and DICOM Compatible devices such as MR/CT/DSA Work station,				
k.	Must provide for HL-7 compatible interface				
l.	Scanning gray scale resolution- 16 bits/pixel.				
4.3	**Console:**				
a.	Software should have graphic selection to allow quick and easy picking of body parts and views				
b.	Software should have minimum 4 web enablement license for viewing of images to enhance productivity				
c.	Multifunctional console having all image optimization and post processing software like zooming, annotation, flipping, windowing and centering.				
d.	Additional computer with necessary software should be provided at the reception to feed the patient information to help ease the workflow.				
e.	19” LCD Monitor with CPU.				
4.4	**Dry view imaging printer(film based) 1unit:**				
a.	Print images from CR workstation, in DICOM 3 format.				
b.	Printer should provide image depth of 14 bits or more				

c.	Mechanism to print images to 14x17 and 8x10 film sizes simultaneously.				
d.	Docked in processor.				
e.	Resolution> 500 DPI.				
f.	Processing capacity should be more than 50 films/hour or more for 14x17 inch film size				
g.	Shall be able to switch between Receiver Mode and Processor mode.				
h.	Printer should have dry Laser imager Technology				
4.5	**IP/Cassettes size:**				
a.	CR system should be provided with the following cassettes and imaging plates.				
b.	14 x 17 in: 1 Pcs.				
c.	10 x 12 in: 1 Pcs.				
d.	8 x 10 in: 1 Pcs.				
5.	**Accessories, spares and consumables**				
5.1	**Accessories:**				
a.	**Computer and Printer**				
b.	At least Latest model Computer having Intel i3 processor and 4 GB RAM and 19"LCD Monitor- 1 set				
C.	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**				
a.	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. Theconditions include Power Supply, Climate, Temperature, Humidity, etc.				
b.	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug.				
7	**Standards and Safety Requirements**				
a.	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**				
b.	CE (93/42 EEC Directives) &USFDA approved product certificate				
c.	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.				
8.	**User Training**				
a.	Must provide user training (including how to use and maintain the equipment).				
9.0	**Warranty**				
a.	Comprehensive warranty for 1 years after acceptance.				
10.	**Maintenance Service During Warranty Period**				

a.	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required				
11.	**Installation and Commissioning**				
a.	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.				
12	**Documentation**				
a.	User (Operating) manual in English				
b.	Service (Technical / Maintenance) manual in English.				
c.	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.

Note: Budget for this instrument is NPR 19, 15,000.00 including 13%vat

Five-part part Hematology Analyzer

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
	5 Part Hematology Analyzer	Yes	No	Page No. in	Remarks
	Manufacturer				
	Brand				
	Type/ Model				
	Country of Origin				
1	Description of Function				
1.1	Diagnostic equipment based on Fluorescence dye with laser scatter, electrical impedance and cyanide free reagent base				
2	Operational Requirements				
2.1	Fully Automated, Table top Model to perform blood cell count of Whole blood and body fluid				
3	System Configuration				
3.1	Fully automated 5 part hematology complete unit with its accessories.				
4	Technical Specifications				
4.1	Working Principle : (Wbc/Rbc/Plt/)Electrical impedance, (Fluorescence Dye and laser technology)Differential of WBC,(Hgb) Cyanide free colorimetry.				
4.2	Operation Mode: whole blood, peripheral blood and PD mode				
4.3	Throughput : 60sample/hr.				
4.4	Sample Volume:20ul				
4.5	Calibration system: Manual and Automated calibration				
4.6	Quality control: L-J ,X-bar, X-bar M, X-R				
4.7	Data Storage>200000				
4.8	Reagents: Diluent lyse,LD Lyse(Differential lyse), Fluorescence(DD) and probe cleaner				
4.9	Reagent Identification: Barcoded /Rf-Id				
4.13	Parameters:28				
4.14	Wbc(Neu%,Lym%,Eos%,Mon%,Baso%IG%,Neu#,Lym#,Eos#, Mon#,Baso#,IG#),Rbc(Hgb,Hct,Mcv,Mch,Mchc,Rdw-Cv,Rdw-Sd)Plt(Mpv,Pdw-sd,Pdw-cv,pct,P-LCR) 4D Differential Scatter,3 hitogram for wbc,rbc and plt				

4.15	Linearity Wbc:$1.0*10^9$ /L~$10.0*10^9$ /L,$10.1*10^9$/ L~$99.9*10^9$/ L Rbc:$0.30*10^{12}$/ L~$1.00*10^{12}$/ L,$1.01*10^{12}$/ L~$7.00*10^{12}$/ L Hgb:20g/L~70g/L,71g/L~240g/L Plt:$20*10^9$/L~$100*10^9$/L,$101*10^9$/L~$999*10^9$/L				
5	Data transfer: LIS Connection via COM or network card				
	All standard accessories, consumables and parts required to				
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. Temperature, Humidity.				
6.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate				
7	Standards and Safety Requirements				
7.1	Must submit ISO13485:2016 for Medical Devices				
7.2	CE (98/79/EC Directives)/product certificate.				
7.3	Shall meet IEC 61010-1 safety requirements for electrical equipment for measurement, control, and laboratory use.				
8	User Training				
	Must provide user training (including how to use and maintain				
9	Warranty 1year				
10	Maintenance Service During Warranty Period				
10.1	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever				
11	Installation				
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.				
12.2	Certificate of calibration and inspection.				

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

Note: Budget for this instrument is NPR 9,50,000.00 including 13%vat

ECG Machine
(12 Channel)

S.N.	Purchaser's Specifications	
	12 Channel ECG Machine	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	ECG Machine is primary equipment to record ECG Signal in various configurations.	
2	**Operational Requirements**	
2.1	Microprocessor controlled digital 3 channel ECG machine suitable for adult, pediatric and neonate applications.	
3	**System Configuration**	
3.1	3 channel ECG machine with complete accessories.	
4	**Technical Specifications**	
4.1	3 channel ECG machine with simultaneous acquisition of 12 standard leads: aVR, aVL, aVF, I,II, III and V1-6 pre-cordials.	
4.2	Internal memory for storage of up to 50 ECGs.	
4.3	Splash-resistant alphanumeric keyboard with function keys.	
4.4	With zeroing reset, auto-base-line correction (0.5Hz) and 1mV test/calibration signal.	
4.5	Filter setting for line-frequency (50 or 60Hz) 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	Alphanumeric colour LCD display, approximately: 4". Display shows ECG-curves, heart rate, patient name and ID, time, age, sex, speed and filter setting.	
4.9	ECG machine shall have 3 modes of operation – Automatic, Manual & Rhythm.	
4.10	Shall have measurements and analysis programs.	
4.11	Measurements: QRS rate, PR interval, QRS duration, QT/QTC, P/QRT/T axes, RV5/SV1.	
4.12	Shall have interpretation and waveform analysis.	
4.13	Shall have maintenance free digital thermal array printer.	
4.14	Printer shall be able to print ECG report and must have on/off selection.	
4.15	Shall have ECG lead annotation facility.	
4.16	Paper speed, user adjustable: 25 and 50mm/sec.	
4.17	CMRR shall be > 100dB.	
4.18	Sensitivity, automatic or user selectable: 5, 10 and 20mm/mV.	
4.19	Rechargeable battery& charger integrated in the device.	
4.20	Battery autonomy, approximately 2 hours.	
4.21	The unit shall be compact, light in weight, easy to carry.	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** • Reusable Patient cablewith reusable electrodes for adult & paediatric- 2 set. • Reusable patient cable with reusable electrodes for neonate & infant- 1 set. • Extremity clamp electrodes, reusable- 4 nos. • Recording paper rolls- 12 rolls • Bottles of electrode gel, approximately 350ml- 2 nos. • Spare rechargeable battery pack- 1 no. • Set of spare fuses- 1 set • Plastic protective dustcover- 1 no.	

S.N.	Purchaser's Specifications
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 conditionsof the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220–240V AC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be at least 3m in length.
7	**Standards and Safety Requirements**
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
7.3	Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.
8	**User Training**
8.1	Must provide user training (including how to use and maintain the equipment).
9	**Warranty**
9.1	Comprehensive warranty for 2 years after acceptance.
10	**Maintenance Service During Warranty Period**
10.1	During the warranty period supplier must ensure preventive maintenance andcorrective/breakdown maintenance whenever required.
11	**Installation and Commissioning**
11.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.
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.
Note: Budget for this instrument is NPR 1,50,000.00 including 13%vat	

Microscope

S. N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Yes/No	Page no.in	Remarks
1	Microscope			
	Manufacture:			
	Brand:			
	Type/Model:			
	Country of origin:			
	Description of functions			
	1.1 Body Aluminum: die-casting metal frame, Protective covering			
	1.2 Optical System: Infinity optical system Illumination System Built-in transmitted illumination system, LED Power Consumption 0.5 W (nominal values)			
	1.3 Focusing: Stageheight movement (coarse movement stroke: 15 mm), coarse adjustment limit stopper, Torque adjustment for coarse adjustment knob, Fine focus knob (minimum adjustment gradations: 2.5 µm) R			
	1.4 Revolving Nosepiece: Fixed quadruple nosepiece			
	1.5 Stage: Wire movement mechanical fi xed stage Traveling range: 76 mm (X) x 30 mm (Y), Specimen holder, Specimen position scale			
	1.6 Observation Tube:30º inclined binocular tube Interpupillary distance adjustment range: 48 – 75 mm, Eyepoint adjustment: 370.0 – 432.9 mm			
	1.7 Objectives: Plan achromat, anti-fungus 4x NA: 0.10 W.D.: 27.8 mm 10x NA: 0.25 W.D.: 8.0 mm 40x NA: 0.65 W.D.: 0.6 mm 100xOil NA: 1.25 W.D.: 0.13 mm (CX23LEDRFS1 only)			
	1.8 Eyepiece: (10x) Field Number (FN): 20 (anti-fungus)			
	1.9 Optional Accessories: Reflection mirror (CH20-MM), 15x ey			
	1.10 Rated Voltage/Electric Current: AC 100–240 V 50/60 Hz 0.4 A			
	1.11 Power Consumption: Less than 2 W			
	Users Training Most provide user training (how to use and maintain)			
2	Warranty 1 year			
3	Maintenance service during 1 year			
4.	Installation: the bidders most arrange for the equipment's to be installed and cominisoned by certified or qualified personnel, any pre-quistice for installation to be communicated to the purchaser's in advanced in detailed			
5.	Documentation			
6.	Users (operating) manual in English			
7.	Certificate of calibration and inspection			
8.	Certificate of calibration and inspection			

Bidder must completely fill theTechnical Specification Form(TSF).Only Yes/no/all complies should not be written.The catalogue of all the required parameters, Authorization from principle company mustbe clearly mentioned and highlighted.Failure in doing willlead to rejection of bid from technical committee.

Note: Budget for this instrument is NPR 1,85,000.00 including 13%vat

Semi Automated Biochemistry Analyzer

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet			
	Semi Auto Biochemistry Analyzer		**No**	**PageNo. in**	**Remarks**
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	**Description of Function**				
1.1	**Single beam filter photometer, LED with long Lifetime.**				
2	**Operational Requirements**				
	Water bath, Micropipettes etc.				
3	**System Configuration**				
3.1	Single test at a time with air gap after each aspiration				
4	**Technical Specifications**				
4.1	SampleType:whole Blood,Serum,Plasam				
4.2	Parameter : **Capacity for upto 231 programmable method.**				
4.4	**Principle**: Absorbance End point factor, standard or mutistandards, with or without reagent/sample blank Biochromatic end point Kinetics with factor, standard or multiple standards, with or without reagent/sample blank Fixed time with factor, standard or multiple standards, with or without reagent/sample blank Turbidimetry with optional timer function Single, double, triple determinations Curve fitting for nonlinear standard curves Free hemoglobin in the combination with optional interference filter				
4.5	Wavelength:6 standard filters(340,405,492,546,578,623nm) and 3 optional filter position.				
4.6	Photometric range:0-2.5A				
5	Display with touch screen for direct function.				
5.1	**Cuvette System**: Micro flow cell:32ul, 10mm light path				

5.2	**Temperature control**: internal Peltier element, variable(25,30,37^{C}) **Sipping Volume**:Min250ul and max 500ul to2000ul for typical			
6.0	Powersupply:220-240 VAC,			
6.1	**Standards and Safety Requirements**			
6.2	CE Approved approved product certificate.			
7.0	**User Training**			
7.1	Must provide user training(including how to use and maintain the equipment).			
8	**Warranty for 1year**			
9	**Maintenance ServiceDuring WarrantyPeriod**			
10	Duringthewarranty periodsupplier must ensure corrective/breakdown maintenance whenever			
11	**InstallationandCommissioning**			
12	The biddermustarrange for the equipmenttobe installed and commissioned bycertifiedor qualifiedpersonnel; anyprerequisitesfor			
13	**Documentation**			
13.1	User (Operating)manual inEnglish			

BiddermustcompletelyfilltheTechnicalSpecificationForm (TSF).Only Yes/no/allcompliesshouldnotbewritten.Pagenumberin thecatalogueofalltherequiredparametersmustbeclearlymentionedandhighlighted.Failureindoingsomayleadtorejectionofbidfr omtechnicalcommittee.

Note: Budget for this instrument is NPR 4, 50,000.00 including 13%vat

Patient monitor

S.N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Yes/No	Page no.in	Remarks
	Patient monitor-2 set (ECG, Resp. NIBP, SpO2, Temp., ETCO2, IBP)			
	Manufacture			
	Brand			
	Type/Model			
	Country of origin			
1	Description of functions			
	1.1 ECG Lead mode5 Leads (R, L, F, N, C or RA, LA, LL, RL,V) Lead selection I, II, III, avR, avL, avF, V Waveform 2 ch Lead mode 3 Leads (R, L, F or RA, LA, LL)Lead selection I, II, III, Waveform 1 ch Gain x2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, auto HR and Alarm Range Adult 15 ~ 300 bpm Neo/Ped 15 ~ 350 bpm Accuracy ± 1% or ± 1bpm,which great Resolution 1 bpm Sensitivity > 200 (uV) Differential Input Impedance > 5 MΩ CMRR Monitor > 105 dB Operation > 105 dB Diagnosis > 85 dB Electrode offset potential ±300mV Leakage Current < 10 uA Baseline Recovery < 3 S After Defi ECG Signal Range ± 8 m V (Vp-p) Bandwidth Surgery 1 ~ 15 Hz Monitor 0.5 ~ 35 Hz Diagnostic 0.05 ~ 100 Hz Calibration Signal 1 (mV), Accuracy : 5%ST Segment Monitoring Range Measure and Alarm -2.0 ~ +2.0 mV ARR Detecting			

	Type ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC,TACHY, BRADY MISSED BEATS,PNP, PNC Alarm Available Review Available			
	1.2 RESPARATION Method Impedance between R-F(RA-LL) Differential Input Impedance>2.5 MΩ Measuring Impedance Range: 0.3~5.0Ω Base line Impedance Range: 0 ~ 2.5 KΩ Bandwidth 0.3 ~ 2.5 Hz Resp. Rate Measuring and Alarm Range Adult 0 ~ 120 rpm Neo/Ped 0 ~ 150 rpm Resolution 1 rpm Accuracy ±2 rpm Apean Alarm 10 ~ 40 S			
	1.3 NIBP MethodOscillometric ModeManual, Auto, STAT Measuring Interval in AUTO Mode 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240,480 (Min) Measuring Period in STAT Mode5 Min Pulse Rate Range40 ~ 240 bpm Alarm Type SYS, DIA, MEAN Measuring and alarm range Adult Mode SYS 40 ~ 270 mmHg DIA 10 ~ 215 mmHg MEAN20 ~ 235 mmHg Pediatric Mode SYS 40 ~ 200 mmHg DIA 10 ~ 150 mmHg MEAN20 ~ 165 mmHg Neonatal Mode SYS 40 ~ 135 mmHg DIA 10 ~ 100 mmHg MEAN 20 ~ 110 mmHg Resolution Pressure 1mmHg Accuracy Pressure			

	Maximum Mean error ±5mmHg Maximum Standard deviation ±8mmHg Overpressure Protection Adult Mode 297 ±3 mmHg Pediatric Mode 240 ±3 mmHg Neonatal Mode 147 ±3 mmH			
	1.4 SpO2 Measuring Range 0 ~ 100 % Alarm Range 0 ~ 100 % Resolution 1 % Accuracy 70% ~ 100% ±2 % 0% ~ 69% unspecified Actualization intervalabout 1 Sec. Alarm Delay10 Sec. Pulse Rate Measuring and Alarm Range 0~254bpm Resolution 1bpm Accuracy ±2bpm			
	1.5 TEMPERATURE Channel1 Measuring and Alarm Range0 ~ 50 C Resolution 0.1C Accuracy ±0.1C Actualization interval about 1 Sec. Average Time Constant < 10 Sec.			
	1.6 IBP(Optional) LabelART, PA, CVP, RAP, LAP, ICP, P1, P2 Measuring and alarm range ART 0 ~ 300 mmHg PA -6 ~ 120 mmHg CVP/RAP/LAP/ICP -10 ~ 40 mmHg P1/P2 -10 ~ 300 mmHg Press Sensor Sensitivity 5 uV/V/mmHg Impedance 300-3000Ω Resolution 1 mmHg Accuracy 2% or 1mmHg, which great Actualization interval about 1 Sec.			

	1.7 ETCO2(Optional) Measure range: 0% - 13% Resolution: 1 mmHg Accuracy : ±2 mmHg （< 5.0% Measurement Value) ±10%(> 5% Measurement Value) Response Time: 180ms			
2	Users Training Most provide user training (how to use and maintain)			
3	Warranty 1 year			
4.	Maintenance service during 1 year			
5.	Installation: the bidders most arrange for the equipment's to beinstalled and cominisoned by certified or qualified personnel, any pre-quistice for installation to be communicated to the purchaser's in advanced in detailed			
6.	Documentation			
7.	Users (operating) manual in english			
8.	Certificate of calibration and inspection			
Bidder must completely fill theTechnical Specification Form(TSF).Only Yes/no/all complies should not be written. The catalogue of all the required parameters, Authorization from principle company must be clearly mentioned and highlighted.Failure in doing will lead to rejection of bid from technical committee.				

Note: Budget for this instrument is NPR 3, 50,000.00 including 13%vat

प्रमुख प्रशासकीय अधिकृत