

Aiselukharka Rural Municipality
Office of Rural Municipal Executive
Aiselukharka, Khotang
Koshi Province Nepal



F/Y 2082.083

Unit Rate Quotation of Equipment for a 15-Bed Hospital in Aiselukharka Rural Municipality

सि.नं.	Item Name	Technical Specification	ईकाई	ईकाई दररेट (VAT बाहेक रु.)	VAT लाग्ने/नलाग्ने?	VAT रकम (१३%)	VAT सहितको कुल दररेट (रु.)	कैफियत
१	X-Ray Machine (500 mA, CSF)	General purpose 500mA X-ray machine with Ceiling mounted system, Bucky Stand and Radiographic patient table. Output Power: at least 40 kW (500mA at 125kV). Output Radiographic Voltage: 40 kV to 125kV. Dual focal spot approx 1mm and 2mm. Anode heat capacity at least 140 KHU. Ceiling Mounted Tube Stand. Radiography Patient Table (Load capacity: at least 180kg, motorized reciprocating bucky with Grid). Floor Mounted Bulky Stand.	सेट					
२	DR Flat Panel Detector System	Portable wired type detector size: approx. 17x17 inches. Spatial resolution 3.5 lp/mm or better. Pixel size approx. 140 micron. 16 bits A/D. Amorphous Silicon with CsI. Imaging Workstation: core i5/i7 or better, 8GB RAM, 500GB HDD, 20" display. Laser Imaging Printer: dry image laser Technology, 60 films or more throughput, > 500 DPI. Online UPS (30 min backup). Light Source: LED. Wavelength Range: 340-700 nm (at least 6 filters). Triple cuvette system. Programmable sipping volume 200-500 micro litre. Flow cell: 18-32ul. Temperature control by Peltier element. Inbuilt thermal printer. 12 channel with high resolution thermal printer. Min. 7 inch touchscreen display colour screen TFT LCD. Built-in battery backup for > 3.5 hours. HR detection alarm and pacemaker detection. USB data interface.	सेट					
३	Semi-automated Biochemistry Analyser		सेट					
४	Portable ECG Machine (12 Channel)		सेट					

दररेट पेश गर्नेको तर्फबाट:

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सि.नं.	Item Name	Technical Specification	ईकाई	ईकाई दरोट (VAT बाहेक रु.)	VAT लागे/नालागे?	VAT रकम (₹ 3%)	कैफियत
५	Patient Monitor	12" or more high-resolution TFT display. Display ECG, SpO2, NIBP, PR, Respiration and temperature. Arrhythmia analysis and S-T segment measurement.	सेट				
६	Binocular Microscope	Binocular compound microscope. 10x 20mm FOV eyepiece. 4 objectives (4x to 100x oil, N.A. 1.25). Abbe-type condenser (N.A. 1.25). LED illuminator (0.5 W-3W).	सेट				
७	Electrolyte Analyzer	ISE electrolyte analyzer (Na ⁺ , K ⁺ , Ca ⁺⁺ , Cl ⁻). Sample volume ≤ 120ul. Throughput 50-60 samples/hour. Touch screen LCD, integrated printer.	सेट				
८	Hospital Bed	Epoxy powder coated ABS made Head and foot panels. Back Rest Section elevated by mechanical hand crank. 4 IV rod receptacles, 4" thick mattress. Size approx: 1900x900x600mm.	सेट				
९	Hydraulic OT Table	Four section table top, mobile on castors with braking system. Radio lucent top. Hydraulically operated (height 730-1040 mm, back section, lateral tilt, trendelenburg).	सेट				
१०	Suction Pump	Electric double jar suction pump, vacuum 0 to 600 mmHg. Unbreakable autoclavable suction bottles min 1 litre each. Operates on AC and manual foot pump.	सेट				
११	Automatic Hematology Cell Counter (3 Part)	Impedance method for RBC/PLT. Flow cytometry + laser scatter + chemical dye for WBC. 20 parameters + 3 histograms. Throughput 50-60 samples/hour. Sample volume Approx 10 ul.	सेट				
१२	Portable Protein Analyzer	Nephelometry or Fluorescence-based. Parameters: HBAIC, Microalbumin, CRP, D-Dimer, TSH, T3, T4, IgM, IgG. Minimum 4 channel. LCD display.	सेट				
१३	Laboratory Centrifuge	Table top version. Tube Capacity: No. 8 or more (Size 5-15 ml). RPM: 3500 rpm or more. Vibration free, door lock function. 50L or more capacity. Natural or forced air convection.	सेट				
१४	Incubator (50 Litres)	Temp adjustable upto 60°C (stability +/- 0.5°C). SS interior with min 2 shelves.	सेट				

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सि.नं.	Item Name	Technical Specification	ईकाई	ईकाई दररेट (VAT बाहेक रु.)	VAT लाग्ने/नलाग्ने?	VAT रकम (१२%)	VAT सल्लिको (VAT सल्लिको रु.)	कैफियत
१५	Hot Air Oven	50L or more capacity. Forced air circulation. PID-temperature controller. Temp Range ambient to 240°C (variation +/- 2°C).	सेट					
१६	Digital Water Bath	Min. 10L capacity, SS inner/outer jacket. Microprocessor controlled digital display. Temp. Range: 10°C to 99°C (accuracy +/- 1°C).	सेट					
१७	Portable Color Doppler USG Machine	Convex and linear probe (Double Probe). 256 grey scale, 15 Inches LCD/TFT monitor, 500GB storage. Cine memory 250 frames, battery backup at least 90 min, weight <10kg.	सेट					
१८	Medicine Trolley	304 grade SS. Size approx 650x475x970mm. Min 4 drawers with telescopic channels. 4 swivel castors with brakes.	थान					
१९	Crash Cart	SS top and shelf. 6 removable coloured bins, 3 lockable drawers, twin hook IV pole. Oxygen cylinder holder, 4 swivel castors.	थान					
२०	Medicine Cupboard	CRC A steel sheet, antibacterial epoxy powder coating. Upper: glass doors. Middle: drawers. Lower: solid metal doors. Approx 900x400x1800mm.	थान					
२१	Emergency Patient Transport Trolley	Collapsible side rail, IV rod, oxygen cylinder holder, SS frame, heavy-duty castors. Size approx 1900x620x600-930mm.	सेट					
२२	Semi-Automated Coagulation Analyzer	Min 1-Channel, turbodensitometric principle. PT, APTT, TT, Fibrinogen. Temp 37.5°C, 4 incubation chambers.	सेट					
२३	Operating Light Ceiling Type	Ceiling mount, LED Double Dome (~0.60m dia). 160,000 lux intensity. Colour temp 3500-4500K, 180° rotation.	सेट					
२४	Portable OT Light with Battery Backup	Mobile examination light, heavy base with castors. Single arm with Min 7 LED light. Approx 60,000 lux (at 0.5m), with battery backup.	सेट					
२५	Red with Radiant Warmer	Microprocessor controlled (manual and servo options). Skin and air temp display.	सेट					

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सि.नं.	Item Name	Technical Specification	ईकाई	ईकाई दररेट (VAT बाहेक रु.)	VAT लागेनलाग्ने?	VAT रकम (रु.)	VAT लागेनलाग्नेको VAT रकम (रु.)	कैफियत
३८	Chetal Forcep with Jar	Stainless steel Chetal forceps (approx. 10 inches) for handling sterile instruments. Accompanied by a heavy-duty stainless steel or glass jar with a stable base.	सेट					
३९	Halogen Room Heater	Energy-efficient halogen heater with at least two heat settings (e.g., 400W/800W). Must include a wide-angle oscillation feature and a safety tip-over switch for fire prevention.	थान					
४०	Stretcher (Heavy-duty)	Heavy-duty emergency trolley stretcher with a high-strength aluminium or steel frame. Breakable swivel wheels for safe transport.	थान					
४१	Ambu Bag	Self-inflating silicone resuscitator bag (Adult/Pediatric sizes) with a non-rebreathing valve. Must include a reservoir bag, oxygen tubing, and transparent face masks.	सेट					
४२	Infrared Thermometer	Non-contact digital thermometer with a high-precision infrared sensor. Features should include a backlit LCD, fever alarm, and a response time of 1 second or less.	थान					
४३	Nebulizer Set	High-performance compressor nebulizer for respiratory therapy. Must include a jet nebulizer cup, adult/child masks, and extra filters, providing a fine aerosol mist for efficient drug delivery. ISO and CE certified.	सेट					
४४	Waste Bins (80L, Different Colours)	Heavy-duty HDPE plastic bins with a foot-pedal operated lid for hands-free use. Must be color-coded (Red, Yellow, Blue, Green) according to biomedical waste management protocols.	सेट					
४५	BP Set with Stethoscope	Aneroid sphygmomanometer with a durable nylon cuff and easy-to-read gauge. Includes a dual-head stainless steel stethoscope with high acoustic sensitivity for adult and pediatric use. ISO and CE certified.	सेट					
४६	Otoscope	Professional diagnostic otoscope with fiber-optic illumination and LED bulb. Must include a magnifying lens and a set of reusable or disposable ear specula of varying sizes. ISO and CE certified.	सेट					
४७	Duck/Nasal Speculum	Surgical grade stainless steel Cusco (Duck) or Killian (Nasal) speculum. Must have a smooth adjustable screw mechanism and be fully autoclavable.	सेट					

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४८	MVA Set	Manual Vacuum Aspiration kit including a double-valve syringe and a range of flexible/rigid cannulae. Must be made of medical-grade, latex-free materials and be easy to disassemble for cleaning.	सेट					
४९	Bed Pan/Urinal	Contoured stainless steel or heavy-duty autoclavable plastic bed pans and urinals. Must be leak-proof, easy to clean, and designed for patient comfort.	सेट					
५०	Spinal Board	High-density polyethylene (HDPE) rigid backboard for emergency immobilization. Must be X-ray translucent, floatable, and include multiple handholds and safety straps.	थान					
५१	Patient Trolley	Heavy-duty steel frame construction with a removable or integrated stretcher top. Must include adjustable side rails, an IV pole attachment, and high-quality swivel castors with a central braking system for patient safety.	थान					
५२	Trolley for Transportation	Multipurpose medical trolley with a stainless steel or powder-coated finish. Features at least two or three spacious shelves with raised edges to prevent items from falling, and ergonomic handles for smooth maneuverability in hospital corridors.	थान					
५३	Handheld Pulse Oximeter	Compact, sturdy handheld device for continuous monitoring of SpO2 and pulse rate. Must feature a clear color LCD/TFT display with plethysmographic waveform, adjustable audio-visual alarms, and a rechargeable battery with at least 8 hours of backup. ISO13485 and CE certificate.	थान					
५४	Handheld Pulse Oximeter (Neonate)	High-sensitivity handheld oximeter specifically designed for low perfusion and motion-tolerant conditions. Must be supplied with a soft, reusable neonate wrap sensor (suitable for infants) and provide reliable readings even in clinical neonatal environments. ISO13485 and CE certificate.	थान					
५५	Bed Sheet (Cotton)	100% Cotton, 130-200 Thread Count (TC), soft feel, breathable, easy to launder, size approx. 60x104 inches or 60x90 inches suitable for standard hospital bed.	थान					
५६	Hospital Blanket	Polyester fleece or wool/acrylic blend, size approx. 60x90 inches, easy care, machine washable, suitable for hospital use.	थान					

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Ministry of Health
Office of the Director General of Health Services

सि.नं.	Item Name	Technical Specification	ईकाई	ईकाई दररेट (VAT बाहेक रु.)	VAT लाग्ने/नलाग्ने?	VAT रकम (१५% Health, १०% Education, १०% Agriculture, १०% Industry, १०% Professional)	VAT सहितको कुल दररेट (रु.)	कैफियत
५७	Patient Pillow	Hypoallergenic, soft and comfortable, durable standard size hospital pillow.	थान					
५८	Pillow Cover	100% Cotton, matching bed sheet quality (130-200 TC), standard size approx. 18x28 inches or 20x30 inches.	थान					
५९	Mackintosh / Rubber Sheet	Eco-friendly rubber blend compounds laminated from both sides, high flexibility, waterproof, superb resistance to liquid/oil.	मिटर					
६०	Mattress Cover (Waterproof)	Rexine or polyurethane (PU) waterproof and anti-mite protective fitted cover, durable and easy to clean.	थान					
६१	Mosquito Net	Standard hospital bed size, durable mesh, easy to hang and maintain.	थान					
६२	Patient Gown / Suit	Cotton or Poly-cotton blend, male/female sizes, comfortable, easy to wear and washable.	सेट					
६३	Surgeon Gown (OT Gown)	SMMS non-woven or high-quality reusable cotton, resistance to liquid and microbial penetration, comfortable cuffs.	सेट					
६४	Hospital Privacy Curtain	Medical grade flame-retardant polyester, antimicrobial treated fabric, mesh top for proper airflow, reinforced headers.	थान					
६५	Bath Towel & Hand Towel	100% white cotton, highly absorbent, easy to wash, standard sizes for hospital use.	सेट					

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कोशी प्रदेश सरकार
स्वास्थ्य मन्त्रालय
प्रदेश स्वास्थ्य आपूर्ति व्यवस्थापन केन्द्र
बिराटनगर, मोरङ



प.सं. :- ०८२/८३

च.नं. :- १८०

मिति :- वि.सं. २०८२/११/२८

ने.स. :- ११४६ चिल्लागा, ९ विहिवार

विषय: Submission of Technical Specifications for medical Equipment

aaiselukharka Rural Municipality

khotang

Dear Sir/Madam,

With due respect, I would like to inform you that the technical specifications for the proposed(letter cha.na.602) medical Equipment have been prepared as per the requirement of the Rural Municipality and have been duly submitted to the concerned office.

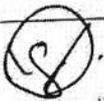
If further clarification needed, please let me know.

(कुशल दाहाल)

बायोमेडिकल ईन्जिनियर

TECHNICAL SPECIFICATION FOR X-RAY MACHINE (500 MA)

S. N	Purchaser's Specifications (Aaiselu kharka, Khotang FY:2082/2083)	TECHNICAL COMPLIANCE SHEET		
		Yes/No	Catalogue Page No	Remarks
	X-Ray Machine (500 mA, CSF), Vertical Bucky			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description of Functions A general purpose 500mAX-ray machine with Ceiling mounted system, Vertical Bucky Stand and Radiographic patient table			
2	Operational Requirements It must be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on three phase AC power supply.			
3	System Configurations X-ray Generator, 1 unit X-Ray tube & tube support system, 1 unit Radiographic patient table, 1 unit Vertical bucky stand, 1 unit			
4	Technical Specifications			
A	X-ray Generator: It should be microprocessor based, high frequency generator with the frequency of at least 40kHz Output Power: at least 40 kW (500mA at 125kV). Output Radiographic Voltage: 40 kV to 125kV			
B	Control Panel It should have digital display of mA, kV and mAs It should have minimum 2-point exposure technique (KV / MAS) Shall display various x ray status, error etc. Shall come with radiography hand switch in control room.			
C	X-Ray Tube: Max. Exposure voltage: 125KV or better Max. Exposure current: 500mA or better It should have dual focal spot with focal spot of approximately 1mm and 2 mm. Anode heat capacity should be at least 140 KHU			
D	Ceiling Mounted Tube Stand : It should be ceiling Mounted based tube stand system The rotation of tube arm around the vertical axis should be 180° or more. It should be mounted on 2 railings on the floor			
E	Radiography Patient Table: It shall be Normal Horizontal table Load capacity: at least 180kg. The Table should consist of motorized reciprocating bucky with Grid. Grid Size: approx. 17 1/4" x 18 7/8"			


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	It should be able to accept all the cassette size up to 14"x17" or better.		
	Various table accessories such as SS cassette tray, compression band, etc. must be provided with the system.		
F	Floor Mounted Bulky Stand:		
	It should be floor mounted vertical bucky stand with oscillating Grid and SS cassette		
	The Bucky must have smooth up & down movement.		
	It should be able to accept all the cassette size up to 14"x17" or better.		
5	Accessories, Spare Parts and Consumables		
	Must be provided with following accessories: . Lead Apron coat type with at least 0.25mm lead: 2 Nos. . Thyroid shield: 2 Nos. . Children gonad shield: 1 set		
	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. Bidder's must specify the quantity of every item included in their offer (including items not specified above).		
6	Operating Environment		
	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.		
	Power supply: 380-415 VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator fitted with appropriate plug		
7	Standards & Safety Requirements		
	Must submit ISO 13485:2003/AC: 2007 AND		
	Must submit CE (93/42 EEC Directives) certificate and USFDA Approved certificate.		
8	User Training		
	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.		
9	Warranty		
	Comprehensive warranty for 2 years from acceptance.		
10	Maintenance Service During Warranty Period		
	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.		
11	Installation and Commissioning		
	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		
	User (Operating) manual in English.		
	Service (Technical / Maintenance) manual in English.		

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.


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S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	TECHNICAL COMPLIANCE SHEET		
		Yes/No	Catalogue Page No.	Remarks
	Digital Radiography (DR) Flat panel detector System			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
	Operational Requirements			
	The Flat Panel direct digital radiography units (Portable type) for general purpose radiology examinations with workstation and printer. It should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.			
	Operational Requirements			
	Flat Panel digital detector with workstation and laser DiCOM printer. It shall be suitable to be used for adult and paediatric patients in general radiography examination.			
	System Configurations			
	DR panel Detector panel with Workstation and complete Accessories.			
	Wired Detector Panel: 01			
	Imaging Workstation: 01			
	Laser imaging printer : single tray : 01			
	Online UPS for at least 30 minutes system backup.			
	Technical Specifications			
	Wired Flat Panel Detector:			
	Portable wired type detector size: approx. 17x17 inches (43 x 43 cm) or more. Bidder to indicate the size of the units offered.			
	Preview time after exposure 4 sec or less.			
	Should have spatial resolution of 3.5 lp/mm or better.			
	The pixel size should be approx. 140 micron or less.			
	Detector should have at least 16 bits for A/D conversion			
	Detector Panel shall be made of amorphous Silicon with CsI			
	Software should have DICOM & PACS connectivity as a standard feature.			
	Image Matrix Size Approx: 2.9K x2.9K Pixel or more			
	Detector should be thin and light weight ≤ 4 kg			
	Imaging Workstation:			

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Workstation shall have core i5/i7 or better with high speed processor, latest operating system, Latest model processor, RAM - 8GB, HDD - 500GB or more latest windows 10 32/64bit or better Display Monitor: at least 20" size

Operating console must have STANDARD Image Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images, documentation.

DICOM work list, DICOM Print, DICOM Storage should be available

Laser Imaging Printer (film based):

The system must have at least 2 online film sizes, and should be capable to print on any of the 8" x 10", 10" x 12", 14" x17" sizes. one film input trays should be freely configurable at user level for all the mentioned film sizes.

Printer should have dry image laser Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.

Print Throughput should be: 60 films or more

DICOM Compatible

Resolution should be > 500 DPI.

Contrast: 14-bit contrast resolution or more.

Bidders must compulsorily quote the manufacturer, brand, model/type & country of origin of the dry laser film printer.

Accessories, Spare Parts and Consumables

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and Extra batteries for detector with Charger, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).

Online UPS for atleast 30 minutes system backup

Operating Environment

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.

Power supply: 380-415VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator and 220 - 240 VAC, Single phase 50 Hz, fitted with appropriate plug for other units.

Standards & Safety Requirements

Must submit ISO certificate.

Must Submit CE and USFDA approved product certificate for flat panel Detector.

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).

User Training

Must provide user training (including how to use and maintain the equipment).

Warranty

Comprehensive warranty for 2 years.

The bidder must perform PPM every 6 months during the warranty period.

Maintenance Service During Warranty Period

During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.

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	Manufacturer shall commit the availability of spare parts and consumables and accessories for at least 3 years.			
	Installation and Commissioning			
	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. Must provide 1 pacs of film free of cost.			
	Documentation			
	User (Operating) manual in English.			
	Manufacturer Authorization letter			
	Service (Technical / Maintenance) manual in English.			

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.



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Specification of biochemistry analyser semi-auto

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/no	Page No. in Catalogue	Remarks
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	The Semi-automated Bio-chemistry Analyser measures biochemical indexes by analyzing blood and other body fluid, then combines with other clinical information, to help diagnose disease, evaluate organs function.			
2	Operational Requirements			
2.1	Semi automated Chemistry Analyser with built in software for the calculation and curve plotting. It must accept all types of curve fits like log-linear, Exponential, point to point.			
2.2	Memory for up to 150 chemistries including wavelengths, calculations, unit codes, linear and normal ranges, rate timing, standard values, and previous standard curve.			
3	System Configuration			
3.1	Semi automated chemistry Analyser with in built data processor & Touchscreen display, inbuilt thermal printer and RS 232 serial port for bidirectional communication or USB etc.			
4	Technical Specifications			
4.1	Light Source : LED			
4.2	Wavelength Range: Automatic selection by at least 6 standard position filter wheel ranging 340 - 700 nm, but should contain following filters.			
4.3	Calculation Modes:			
a	Absorbance/concentration			
b	Single point Calibration by Standard or Factor			
c	Multipoint Calibration with point to point curve fit			
d	Rate by standard or Factor(single or batch)			
4.4	Should have Triple cuvette system			
4.5	Aspiration system:			
4.6	Programmable sipping volume from 200-500 micro litre			
4.7	Programme:			
4.8	• High/Low flags.			
4.9	Temperature control by Peltier element			
4.10	Flow cell:18-32ul			
5	Accessories, spares and consumables			
5.1	Accessories:			
a	Trial kits for different parameters and controls -01 set			
b	Printer paper: 2 rolls			
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 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			

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7.1	This unit shall be certified to meet ISO9001 and ISO 13485:2003/AC: 2007.			
7.2	Must submit CE &/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.			
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 year.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and 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			
12.2	Service (Technical / Maintenance) 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.			



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Technical Specification of ECG			
S No.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Offer	
		Yes/No	Remarks
	ECG Machine, Portable (12 Channel)		
	Manufacturer		
	Brand		
	Type/Model		
	Country of Origin		
1	Description of Functions		
1.1	ECG is primary equipment to record ECG signal in various configuration.		
2	Operational Requirements		
2.1	Portable digital ECG machine must be able to acquire simultaneously 12 channel ECG recording with auto reporting system.		
3	System Configurations		
3.1	Portable digital ECG machine for pediatric patient use and should have complete accessories.		
4	Technical Specifications		
4.1	The device should be compact, lightweight, easy to carry and weight not more than 5 kgs including battery.		
4.2	It should have atleast 12 channels with high resolution thermal printer.		
4.3	It should have Min.7 inch touchscreen display, colour screen TFT LCD with LED graphics.		
4.4	It should have preview image on the screen which helps to send data to the ECG management system without printing.		
4.5	Printing record should be auto and manual system.		
4.6	Data interference via USB or equivalent.		
4.7	It should have have built in battery backup for more than 3.5 hours continuous operation or more continuous monitoring by rechargeable battery internally.		
4.8	Must have HR detection alarm and pacemaker detection.		
4.9	It should have provision for external printer with A4 size paper.		
4.10	Thermal printer paper size should be of minimum 210mm width.		
5	Accessories, Spare Parts and Consumables		
5.1	Power Cable - 1 no		
5.2	Patient Cable - 1 set		
5.3	Reusable chest electrodes, suctionball -type - 6 nos		
5.4	Reusable extremity clamp electrodes- 4 nos		
5.5	Bottle of electrode Gel - 1 bottle		
5.6	Packet of A4 size z-fold recording paper - 1 no.		
5.7	Plastic protective dustcover - 1 no.		
5.8	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		

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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: 100 – 240VAC, 50-60Hz fitted with appropriate plug. The power cable must be at least 3m in length.		
7	Standards & Safety Requirements		
7.1	Must submit ISO13485:2016 for Medical Devices AND		
7.2	CE (93/42 EEC Directives) approved product certificate.		
7.3	Shall meet IEC-60601-1-2:2007/AC:2010 General Requirements of Safety for Electromagnetic Compatibility.		
7.4	Shall meet the safety requirements as per IEC 60601-2-27:2006/AC:2006—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment.		
8	User Training		
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.		
9	Warranty		
9.1	Comprehensive warranty for Min 2 years after acceptance and 3 years of maintenance contract.		
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		
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.		

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Patient Monitor

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidders Remarks
	Patient Monitor	Yes/No
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1.	Description of Function	
1.1	Advance monitoring vital signs of all patient categories, at bedside, transportation applicable for Adult, Pediatric and neonatal application	
2.	Operational Requirements	
2.1	It shall operate on AC power supply as well as built-in battery.	
3.	System Configuration	
3.1	Should have ECG, SpO2, NIBP, Respiration and Temperature	
4	Technical Specifications	
4.1	Monitor for Adult, Pediatric application	
4.2	Should have 12" or more high-resolution TFT display with LED backlight	
4.3	Should have facility to display ECG, SpO2, NIBP,PR, Respiration and temperature simultaneously	
4.4	Should display at least 9 waveforms of selected parameters simultaneously	
4.5	It shall have protection against defibrillator discharge	
4.6	Measurements range:	
A	It shall have arrhythmia analysis and S-T segment measurement	
B	HR approximately :15~250 bpm or more	
C	NIBP approximately 40 to 250mmHg or more	
D	SpO2 approximately upto 100%	
E	NIBP oscillometric,manual and automatic, initial inflation pressure user selectable	
F	Temperature measuring range :21~45 degree C or better	
G	PR measurement range: 0~220 bpm or more	
H	Respiration Rate measuring range: 100 rpm or better.	
I	Display shall have facility to report system errors, leads and sensors failure and built-in battery status.	
5	Accessories, spares and consumables	


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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.	
6.0	Operating Environment	
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.	
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) & USFDA approved product certificate.	
8.0	User Training	
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
9.0	Warranty	
9.1	Warranty for 2 years after installation and commissioning and 3 years of maintenance contract.	
10.0	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. Preventive maintenance to be performed during warranty period.	
11.0	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.	
12.2	Service (Technical / Maintenance) manual in English.	

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Technical Specifications for Binocular Microscope

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Compound microscopes consist of two or more than two magnifying lenses. One can view individual cells, even living ones. It has high magnification.			
2	Operational Requirements			
2.1	Binocular compound microscope with illumination system is required.			
3	System Configuration			
3.1	Binocular Microscope Compound, complete system with complete accessories.			
4	Technical Specifications			
4.1	Body: Binocular, sturdy, stable base body with focus adjustment controls.			
4.2	Eye Piece: Paired, high quality, (the image of the object as seen through the binocular eyepiece must be well defined centrally in at least 2/3 field of view), achromatic, wide field, 10x 20mm FOV. The eyepiece must be aplanatic and have a minimum field number of 18. Dioptre adjustment must be present on one/ both eye pieces or on the eye piece tube.			
4.3	Objective: At least four objectives 4x, to 100x oil .			
	100x must have numerical aperture of 1.25 and must be of oil immersion and spring loaded type. Suitable prominent marking must be provided on 100x for easy identification.			
	Unbreakable containers to be provided for storing the objectives. All objectives must be wide field, achromatic and par focal.			
	Making for the Objectives: Each objective must be engraved with the following information:			
	<ul style="list-style-type: none"> · Name of the manufacturer · Magnification and numerical aperture, for example, 10x/0.25 · 100x objective must be engraved with the word 'Oil'. 			
	Changing from one objective to another or reintroducing the same objective by rotation of the nosepiece, the object at the centre of the field must not appear displaced by more than 0.02 mm in the object plane in any direction.			
4.4	Nose Piece: Revolving nose piece to accommodate a minimum of three objectives with click stops. It must be provided with ribbed grip for easy rotation mounted on a precision ball bearing mechanism for smooth and accurate alignment. Extra ports if any must be fitted with dust proof metallic/ebonite caps.			
	Stage:			

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S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
4.5	Uniformly horizontal, mechanical stage having dimensions of length 140 mm (+/- 10mm) with fine Vermeer graduations (minimum reading accuracy of 0.1 mm). The stage must be provided with spring loaded slide holder for exact positioning of specimen/ slide. It must be designed with convenient sub-stage vertical coaxial adjustment for slide manipulation. The stage travel(X x Y) approx. 75 x 30 mm. Ergonomic grip for easy carrying.			
	Sub-stage Condenser:			
4.6	Abbe-type condenser, numerical aperture (N.A.) 1.25 focusable with rack and pinion arrangement incorporating a spherical lens and an iris-diaphragm. The condenser must have a filter holder and removable/ swing in/ out blue filter (suitable for bright field Microscopy).			
	Sub-stage illuminator:			
4.7	The system must have a build-in variable light source (Illuminator). LED light .power consumption: 0.5 W-3W. Or better			
	Power Supply:			
4.8	Voltage 220 V, 50 Hz AC. Must have one on-off power switch, 3 core power cord with a 3 point male plug. The system must have an inbuilt protective/ safety device to withstand fluctuations of voltage from 140 V to 280 V.			
4.9	The fuse for the lamp must be easily accessible to the operator.			
4.10	A Plano-concave mirror in fork mounting must be supplied which would be attachable to the base for field use (where power is not available).			
4.11	The Illuminator must have a build-in field diaphragm for Kohler illumination.			
	Eye Piece Tubes:			
4.12	Binocular eye piece tubes, inclined at 30 degrees, having inter-pupillary distance range of 48-75mm , covering the above mentioned range.			
	Focusing Knob:			
4.12	Co-axial coarse and fine focusing knobs capable of smooth fine focusing movement over the full range of coarse travel. The fine focusing movement must have sensitivity of two microns or less (finer) over the entire coarse focusing stop safety arrangement must be provided.			
4.13	All optical parts including objectives, eye pieces and prisms must have anti-reflective coating which also gives anti-fungal property.			
4.14	All metallic parts must be corrosion-proof, acid-proof and stain-proof.			
4.15	Each Microscope must be supplied with Blue filters. The Blue filter must be packed in the ox and not fixed on the Microscopes.			
5	Accessories, spares and consumables			
A	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			

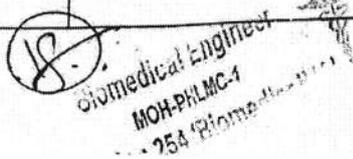
S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
A	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
B	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			
A	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
B	CE (EEC Derivative) or USFDA approved product certificate.			
8	User Training			
	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
	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			
A	User (Operating) manual in English			
B	Service (Technical / Maintenance) manual in English			
C	List of important spare parts and accessories with their part number and costing.			
D	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.


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Electrolyte Analyzer

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Ref Doc Page No	Remarks
	Electrolyte Analyzer			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	ISE electrolyte analyzer (Na ⁺ , K ⁺ , Ca ⁺⁺ , Cl ⁻) for analysis of whole blood.			
2	Operational Requirements			
2.1	It shall be closed or open sytem			
3	System Configuration			
3.1	Electrolyte analyzer with integrated printer, integrated sample loading and with complete accessories.			
4	Technical Specifications			
4.1	Microprocessor controlled electrolyte analyzer with the measured parameter of Na ⁺ , K ⁺ , Ca ⁺⁺ and Cl ⁻			
4.2	Sample volume shall be less than or equal to 120ul.			
4.3	Throughout 50-60samples/hour or more .			
4.4	Shall have automatic/manual calibration			
4.5	Maintence free Electrodes with long life span or Multi biosensor technology or equivalent			
4.6	Shall have data display on built in touch screen large colour LCD display.			
S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
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 specified above).			
6	Operating Environment			
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: 110 – 220 VAC, 50Hz fitted with appropriate plug and must be through universal power adapter. The power cable must be at least 3 metre in length.			
7	Standards and Safety Requirements			
7.1	Must submit ISO13485 for Medical Devices AND			



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7.2	CE (EEC Directives) 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 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
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.			
12	Documentation			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
12.3	List of important spare parts and accessories with their part number and costing.			
12.4	Certificate of calibration and inspection from factory.			


 Medical engineer
 MOH-PH/LMC-1
 MOH-25A (Pharmaceutical)

Bed, Hospital (semi- fowler design)

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance sheet
	Bed, Hospital	Yes/No
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Function	
1.1	A hospital bed is a bed specially designed for hospitalized patients in need of patient ease. These beds have special features both for the comfort and well-being of the patient and for the convenience of hospital staff.	
2	Operational Requirements	
2.1	The patient bed shall be made of solid steel construction with anti-corrosive and antirust treated baked hard epoxy powder coating.	
3	System Configuration	
3.1	Hospital Bed epoxy powder coated ABS made Head and foot panels.	
4	Technical Specifications	
4.1	Bed base shall be anti-corrosive and antirust treated epoxy powder coated welded steel bar or epoxy powder coated 18G perforated sheet top to improve ventilation.	
4.2	The patient bed shall be fixed height where the Back Rest Section could be elevated by mechanical hand crank located at the foot end of the bed.	
4.3	Shall have 4 IV rod receptacles and mosquito net pole receptacles at the 4 corners	
4.4	It shall come with one dual hook anti-corrosive and antirust treated epoxy powder coated or 304 grade stainless steel IV rod.	
4.5	Shall have provisions to fix urinary bag on both sides.	
4.6	All 4 legs of the hospital bed shall be capped with heavy duty rubber footings.	
4.7	It shall have ABS made Head and foot panels.	
4.8	Both bedhead and foot-end panel shall be detachable.	
4.11	Overall approximate dimension: 1900mm length, 900mm width, 600mm height or better.	
5	System Configuration Accessories, spares and consumables	
5.1	bed mattress min. 4 inch thick.	
5.2	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.	
6	Operating Environment	
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Climate, Temperature, Humidity, etc.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND CE approved product certicates	
8	User Training	
8.1	Not applicable.	
9	Warranty	
9.1	Warranty for min.2 year. and 3 years maintenance contract.	

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S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance sheet
10	Maintenance Service During Warranty Period	
10.1	Standard warranty conditions are applicable.	
11	Installation and Commissioning	
11.1	Must supply preassembled unit, ready to use or installed as required.	
12	Documentation	
12.1	Users/Instructions manual shall be provided in English.	

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TECHNICAL SPECIFICATION FOR OT table Hydraulic

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	OT table Hydraulic			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
	1 Description Of Function			
	1 Description of Function			
1.1	Hydraulic operating tables are simple tables for performing surgical procedures and it works without electrical power.			
	2 Operational Requirements			
2.1	OT Table is required for general surgery .			
	3 System Configuration			
3.1	Operating Table Hydraulic with complete accessories.			
	4 Technical Specifications			
4.1	Four section table top with divided foot section.			
4.2	The table shall be mobile on castors with efficient braking system for stability during surgery.			
4.3	Table top must be constructed from a high-pressure laminate to permit x-ray penetration and fluoroscopy.			
4.4	All table positioning, i.e., height, back section, lateral tilt, trendelenburg, and anti-trendelenburg, except foot and head section must be operated hydraulically.			
4.5	Shall have a manual position selector, whose location must be interchangeable between foot and head end.			
4.6	The casings on the frame and centre supporting column must be made of hygienic stainless steel.			
4.7	Mattress must be radio lucent.			
	Dimensions (approx.):			
	• Height: 730-1040 mm.			
	• Side tilt: + 15°.			
4.8	• Back section adjustment: -15-+70°.			
	• Foot section adjustment: - 90 to 0°, detachable.			
	• Maximum width: 550 mm.			
	• Length: 1950 mm.			
	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 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 Climate, Temperature, Humidity, etc.			
	7 Standards and Safety Requirements			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	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 2 years after acceptance.			
	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	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			

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S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	OT table Hydrolic			
12.1	User (Operating) manual in English.			
12.2	Service (Technical / Maintenance) manual in English.			
12.4	Certificate of calibration and inspection from factory.			



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TECHNICAL SPECIFICATION FOR SUCTION PUMP

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Suction Pump			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	To extract fluid from the body during surgery or emergency treatments.			
2	Operational Requirements			
	An electric double jar suction pump for surgical use.			
3	System Configuration			
	Suction machine with standard accessories.			
4	Technical Specifications			
A	Suction unit mounted on 4 swivel castor.			
B	Come with suction controller and vacuum gauge / indicator.			
C	The pumped liquid shall be sealed off from the pump.			
D	Vacuum rate shall be from 0 to not less than 600 mmHg.			
E	The pump shall come fitted with unbreakable, transparent, autoclaveable suction bottle(s) minimum 1 litre each.			
5	Accessories, spares and consumables			
	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 product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country.			
B	Must operate on 220-240V AC as well as Manual Foot Pump.			
7	Standards and Safety Requirements			
A	Shall be certified to meet ISO AND CE Certification.			
B	Shall meet IEC-60601-1-2 General Requirements of Safety for equipment.			
8	User Training			
	Not applicable.			
9	Warranty			
	Warranty for 2 year.			

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.


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Automatic Hematology Cell Counter (3Part)

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		yes/No	Page no.in catalogue	Remarks
1	Automatic Hematology Cell Counter			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
2	Description of Function			
2.1	Automated blood cell counter is used to count various types of blood cells in the blood.			
3	Operational Requirements			
3.1	Brand new fully automated blood cell counter that measures at least 20 standard parameters including 3 histograms WBC,RBC and Platelets			
4	System Configuration			
4.1	Automatic Cell Counter, complete unit with all standard accessories.			
5	Technical Specifications			
5.2	Measurement Principle: Impedance method for the determining the quantity of RBC and PLT. Flow cytometry + laser scatter + chemical dye method for WBC 3 part differential analysis and WBC counting			
5.3	Screen: Should have touch screen			
5.4	<i>Test menu: WBC, RBC, RDW CV, HGB, MPV, HCT, MCV, PLT, MCH, MCHC, LYM# & LYM%, MON# & MON%, GRA# & GRA%, PDW, PCT, RDW, SD or more</i>			
5.6	Throughput: Should have high throughput of 50-60 samples per hour or more.			
5.70	The instrument should have Cyanide free reagent for the hemoglobin measurement.			
5.80	Shall have the features of QC management with-in run control program includes Levy-Jennings histograms			
5.27	Sample volume:-Approx.10 ul.			
5.28	Calibration: Automatic as well as Manual calibration mode should be availbale.			
5.29	48 hours post-draw stability(at refrigerated temperature)			
5.30	Connection and interface: LAN Port and USB port			
6	Accessories, spares and consumables			
6.1	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.			
7	Operating Environment			
7.1	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.			

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8.0	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug.			
9	Standards and Safety Requirements			
9.1	Must submit ISO13485 for Medical Devices AND			
9.2	CE (EEC Directives) & USFDA approved product certificate including reagents.			
10	User Training			
10.1	Must provide user training (including how to use and maintain the equipment).			
11	Warranty			
11.1	Comprehensive warranty for 2 year.			
11.2	Maintenance Service During Warranty Period			
11.3	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. (written document)			
12	Installation and Commissioning			
12.1	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.and provide 1 set of complete reagent pack min 700 test during installation			
13	Documentation			
13.1	User (Operating) manual in English.			
13.2	Service (Technical / Maintenance) manual in English.			
13.3	Certificate of calibration and inspection from factory.			
	Terms:Must provide per test cost including all consumable reagent,control and cleaner.			

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.

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PROTEIN ANALYZER, PORTABLE

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance Sheet	
		YES/NO	Page no in catalogue
	Protein Analyzer, Portable		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
	1 Description of Function		
	Automatic/semi-automatic in-vitro diagnostic device to measure the concentration of analytes from Blood, Urine, and/or other samples.		
	2 Operational Requirements		
	A device to measure specific proteins, enzymes, hormones and infections.		
	3 System Configuration		
	A portable immunoassay/protein analyzer with complete accessories.		
	4 Technical Specifications		
	A Principle: Nephelometry or Fluorescence-based.		
	B Parameters: HBA1C, Microalbumin, CRP, D-Dimer, TSH, T3, T4, IgM, IgG or more		
	C Shall have LCD display		
	D Reagents/kits must have shelf life of atleast 12 months.		
	E Minimum 4 channel.		
	5 Accessories:		
	Must supply Temperature maintaining device, calibration devices and all accessories needed to fully operate the system which have/haven't mentioned above.		
	6 Operating Environment		
	A 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.		
	B Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug.		
	7 Standards and Safety Requirements		
	A Must meet ISO13485		
	B CE or USFDA approved product certificate.		
	8 User/Technician Training		
	Must provide user/technician training (including how to use and maintain the equipment).		
	9 Warranty		
	Comprehensive warranty for 2 years from acceptance.		
	10 Maintenance Service During Warranty Period		
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.		
	11 Installation and Commissioning		
	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		
	A User (Operating) & Service (Technical / Maintenance) manual in English.		
	B List of important spare parts and accessories with their part number and costing.		
	C Certificate of calibration and inspection from factory.		

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Laboratory Centrifuge

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page no.in catalogue	Remarks
	Centrifuge			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	Centrifuges are required in the Laboratory to separate various components of Blood and any other liquid sample for analysis			
2	Operational Requirements			
2.1	Aerodynamic compact construction for vibration free performance			
2.2	Table top version			
3	System Configuration			
3.1	Centrifuge complete with digital display			
4	Technical Specifications			
4.1	Tube Capacity :No. 8 or more : Size 5 – 15 ml			
4.2	RPM : 3500 rpm or more			
4.3	Must be vibration free ,door lock Function.			
4.4	Body Must be made of strong fabricated & corrosion resistant steel			
5	Accessories, spares and consumables			
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 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 ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	CE (MDD OR IVD) 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 2 years from acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and 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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INCUBATOR (DIGITAL; 50L)

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Incubator, 50 Litres			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	Incubator is a closed chamber which heats/chill a sample at a pre-set temperature for long term for applications like culture growth etc.			
2	Operational Requirements			
	Microprocessor/Microcontroller based digital controlled system.			
3	System Configuration			
	Incubator with 50 Litres or more capacity with all standard accessories.			
4	Technical Specifications			
A	Capacity: 50L or more			
B	Natural convection or forced air convection, with adjustable thermostat for temperature setting.			
C	Temperature adjustable upto 60 °C with temperature resolution of 1°C and temperature stability of ± 0.5°C.			
D	Interior must be made of SS with rounded corners.			
E	Corrosion resistant Stainless Steel interior chamber with minimum 2 shelves removable, at least 1mm thick.			
F	LED/LCD display of parameters with touch button or key for setting of parameters.			
G	Shall have audio-visual alarm facility for abnormal temperature.			
5	Accessories, spares and consumables			
	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 be operated normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
B	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			
A	Must submit ISO13485 for Medical Devices AND			
B	CE (EEC Directives) or USFDA approved product certificate.			
C	IEC/EN 61010-1 safety requirements for electrical equipment for measurement, control, and laboratory use.			
8	User/Technician Training			
	Must provide user/technician training (including how to use and maintain the equipment).			
9	Warranty (Written Document)			
A	Comprehensive warranty for 2 years after acceptance.			
B	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required. And perform PM Bi-Annually.			
10	Installation and Commissioning			
	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.			
11	Documentation			
A	User (Operating) manual in English.			

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Incubator, 50 Litres			

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.

HOT AIR OVEN

Purchaser's Specifications(Aaiselu kharka, Khotang FY:2082/2083)		Bidder's Compliance Sheet		
S.N.	Hot Air Oven	Yes/No	Page No. in Catalogue	Remarks
	Manufacturer			
	Brand:			
	Type/Model			
	Country of Origin			
1	Description of Function			
	Hot Air Oven is required for heating a sample under controlled conditions.			
2	Operational Requirements			
	Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator.			
3	System Configuration			
	Microprocessor based Hot Air Oven, complete unit with all standard accessories.			
4	Technical Specifications			
A	capacity:50L or more			
B	Forced air circulation by quiet air turbine/Fan to ensure uniform temperature.			
C	Fitted with load indicator and safety thermostat take over indicator lamp. LCD/LED indicator.			
D	Temperature Variation +/- 2 °C or better.			
E	Temperature Range- ambient to 240 °C. Or better.			
F	Output available for data acquisition.			
5	Accessories, spares and consumables			
A	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	Operating Environment			
A	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.			
B	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			
7	Standards and Safety Requirements			
A	Must submit ISO 9001 or ISO 13485 AND			
B	CE or USFDA approved product certificate.			
8	User/Technician Training			
	User/technician training must be provided onsite			
9	Warranty			
	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.			

Purchaser's Specifications(Anselu kharka,Khotang FY:2082/2083)		Bidder's Compliance Sheet		
S.N.	Hot Air Oven	Yes/No	Page No. in Catalogue	Remarks
11	Installation and Commissioning			
	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			
A	User (Operating) manual in English.			

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.


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 EC No.: 254 Biomedical

Water Bath

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
	Water Bath , Digital	Yes/No	Page no.in catalogue	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
	Water bath maintains a constant pre-set temperature for treating reagents/samples.			
2	Operational Requirements			
	General purpose water bath is required.			
3	System Configuration			
	Water Bath, complete unit with all standard accessories.			
4	Technical Specifications			
A	Material: Inner and outer jacket made up stainless steel of approximately 1mm thickness.			
B	Capacity: Min. 10L			
C	Microprocessor controlled programmable, digital display for temperature etc.			
D	Temp. Range: 10 °C to 99 °C; accuracy +/- 1 °C.			
E	Temperature Uniformity: +/- 1 °C			
5	Accessories, spares and consumables			
A	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.			
B	Must supply Diffuser Tray or Racks for various sizes tubes, SS or Polycarbonate Cover and Drain Hose.			
6	Operating Environment			
A	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.			
7	Standards and Safety Requirements			
A	Must comply ISO13485:2003/AC:2007 for Medical Devices AND			
B	Must submit CE (EU MDD) or USFDA approved product certificate.			
8	User/Technician Training			
	Must provide user/technician training (including how to use and maintain the equipment).			
9	Warranty			
	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
	Supplier must accomplish proper commissioning of equipment on installation site.			
12	Documentation			
A	User (Operating) manual in English.			


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Technical Specification of Portable Color Doppler USG Machine with Double Probe

S.N.	Purchaser's Specifications(Aalselu kharka,Khotang FY:2082/2083)	Bidder's compliance sheet
	Portable Color Doppler USG Machine with Double Probe	
	Manufacturer	
	Brand	
	Type/Model	
	Country Of Origin	
	Manufacture Authorization	
1	Description of Function	
1.1	A general purpose Portable Colour Doppler Ultrasound imaging system. Widely used in diagnosis of abdomen, obstetrics, gynaecology, cardiology, and small parts.	
2	Operational Requirements	
2.1	It shall operate on AC power supply as well as built-in rechargeable battery. The machine is intended to be carried to the field or the patient ward with the inbuilt battery system to examine patients who could not come to USG room.	
3	System Configuration	
3.1	System shall come with main unit, 2 probes, and a suitable carrying bag.	
4	Technical Specifications	
4.1	Main applications: OB/GYN, abdominal, cardiac, and small parts.	
4.2	The system shall have latest generation with Minimum grey scale resolution to be 256.	
4.3	256 Grey shades for sharp contrast resolutions.	
4.4	Scan modes: M-mode, B-mode and 2-D, Colour Doppler, Pulsed wave Doppler, Continuous wave Doppler, Power Doppler.	
4.5	Should have Tissue Harmonic Imaging, trapezoidal image.	
4.6	Image storage: System should have be able to store at least 500GB data/image on main unit.	
4.7	Near and far gain adjustable.	
4.8	Contrast, adjustable.	
4.9	Shall have facility for image zoom, freeze, text annotation.	
4.10	System shall be DICOM ready and capable of being interfaced with HIS/RIS/PACS.	
4.11	The System must have integrated high-resolution Colour LCD/ TFT/Single monitor of 15 Inches or more.	
4.12	Full alphanumeric keyboard.	
4.13	System should have at least 2 active ports connectivity.	
4.14	System should have built-in battery backup at least 90 min. or more	

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	backup.	
4.15	System should have ability to enhance tissue margins and improve contrast resolution by reducing artefacts and improving visualization of texture patterns and needle tip within the image.	
4.16	Cine memory of 250 frames for cine loop playback.	
4.17	Should have multiple USB port connectivity.	
4.18	The unit should be compact, lightweight and portable. weight should not be exceed 10kg including rechargeable batteries.	
4.19	Dynamic range should be between 30-150 db or more.	
5	Accessories, spares and consumables	
5.1	Accessories: Ultrasound gel bottles: 02 bottles (250ml) USG printer: 1unit Probe: Convex and linear 1 each.	
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 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 13485 or better for Medical devices.	
7.2	Must CE (93/42 EEC Directives) certified by authorized body.	
7.3	Must submit USFDA approved product certificate.	
7.4	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment.	
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 and corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
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.	
12	Documentation	
12.1	User(operating) manual in English	


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12.2	Service (Technical / Maintenance) manual in English.	
12.3	Must submit the commitment letter for spare parts and service availability of min. 10 years from Manufacturer.	
12.4	List of important spare parts and accessories with their part numbers and costing.	
12.5	The supplier must submit the original brochure or e-copy.	
12.6	Certificate of calibration and inspection from factory	

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TECHNICAL SPECIFICATION FOR TROLLEY, MEDICINE

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Trolley, Medicine			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
	1 Description of Function			
1.1	A medicine/drug trolley for storage and delivery of medicines and drugs to patients in wards of healthcare facilities.			
	2 Operational Requirements			
2.1	Stainless steel medicine trolley with swivel castors.			
	3 System Configuration			
3.1	Medicine Trolley, complete unit.			
	4 Technical Specifications			
4.1	It shall be constructed fully with 304 grade stainless steel sheet and tube or better.			
4.2	Overall size: approximately 650× 475× 970mm.			
4.3	Frame work made up of M.S. or SS tubes.			
4.4	Multiple drawers (minimum 4) made of high quality materials with telescopic channels, below the platform.			
4.5	Shall be mobile on 4 robust 360 deg. anti-rust, anti-static, noiseless, swivel castors & shall have brakes.			
4.6	Shall be mobile on 4 x 100mm diameter (approx.) robust 360 deg. anti-rust, anti-static, noiseless, swivel castors & shall have brakes.			
	5 Accessories, spares and consumables			
5.1	To be supplied with all standard accessories, spares and consumables for complete functionality of the product.			
	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 Climate, Temperature, Humidity, etc.			
	7 Standards and Safety Requirements			
7.1	Shall be certified to meet ISO 9001 or ISO 13485:2003/AC:2007 and			
7.2	CE approved product certificate.			
	8 User Training			
8.1	Not applicable.			
	9 Warranty			
9.1	Warranty for 2 year after acceptance.			
	10 Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
	11 Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
	12 Documentation			
12.1	User's manual shall be supplied in English.			

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.


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TECHNICAL SPECIFICATION FOR CRASH CART

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Crash cart			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1.1	Crash Cart is a set of trays/drawers/shelves on wheels used in hospitals for transportation and dispensing of emergency medication/equipment at site of medical/surgical emergency for life support protocols potentially to save a patient's life.			
	2 Operational Requirements			
2.1	Stainless steel trolley on stainless steel tubular frame.			
	3 System Configuration			
3.1	Crash Cart with removable coloured bins, storage units, fitted with oxygen cylinder holder and electric lamp holder and four swivels castors.			
	4 Technical Specifications			
4.1	Dimensions: Standard size.			
4.2	Stainless steel top and shelf & equipped with 6 removable coloured bins made of moulded plastic.			
4.3	Lockable storage units – 3 drawers (stainless steel or moulded plastic).			
4.4	To be fitted with stainless steel, height adjustable, twin hook/loop, IV pole assembly.			
4.5	Fully, 360 deg. swivel castors/wheels, with at least one castor/wheel to have locking/brake mechanism.			
4.6	Top shelf to have stainless steel guard rail approx.35mm above surface.			
4.7	Fitted with epoxy powder coated oxygen cylinder holder.			
4.8	Must be capable of carrying ECG Monitor/defibrillator etc.			
	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 specified above).			
	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 Climate, Temperature, Humidity, etc.			
	7 Standards and Safety Requirements			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			
7.2	CE or USFDA approved product certificate.			
	8 User Training			
8.1	Not applicable.			
	9 Warranty			
9.1	Comprehensive warranty for 2 year.			
	10 Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
	11 Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
	12 Documentation			
12.1	User's manual shall be supplied in English.			

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.



Biome
MOH.PHILIP
NEC No.: 254 'Biome

Technical specification for medicine cupboard

	Manufacturer :	Bidder's compliance sheet
	Model:	Yes/No
S.N	Technical specification(Aiselu kharka rural mun fy:2082/83)	
1	Material & Build: Fabricated from high-quality CRCA (Cold Rolled Close Annealed) steel sheet of 20-22 gauge thickness or equivalent, and finished with an antibacterial epoxy powder coating.	
2	Configuration: Features a dual-compartment design: upper section with two framed glass doors and adjustable shelves; middle section with two or more smooth-running drawers; lower section with twin solid metal doors.	
3	Standard external dimensions approximately 900mm (W) x 400mm (D) x 1800mm (H)	



Biomedical Engineer

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Technical Specion for Emergency Patient Transport Trolley

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidders Compliance Sheet	
		Yes/No	Page no.in catalogue
	Trolley, Emergency Patient		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
	1 Description of Function		
1.1	Emergency Patient transport Trolley for Patient transfer to &fro ICU/OT/Emergency.		
	2 Operational Requirements		
2.1	It shall be patient transport trolley .		
	3 System Configuration		
3.1	Emergency patient transport trolley complete with mattress and accessories.		
	4 Technical Specifications		
4.1	Shall have High quality mattress.		
4.2	Shall have collapsible side rail on both side		
4.5	Shall have facility to fix IV rod and place for fixing oxygen cylinder.		
4.6	Frame shall be made up of stainless steel.		
4.8	Shall be equipped with heavy-duty castors.		
4.9	Dimensions and function Length: 1900 mm or better Width :620 mm or better • Height: approx. 600 – 930 mm		


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	5 Accessories, spares and consumables		
5.1	<p>Accessories:</p> <ul style="list-style-type: none"> • Collapsible side/guide rails: 01 pair • I.V. rod: 01 pc 		
5.2	<p>All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer.</p> <p>Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.</p>		
	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 Climate, Temperature, Humidity, etc.		
	7 Standards and Safety Requirements		
7.1	Must submit ISO13485 for Medical Devices AND		
7.2	Medical CE or USFDA approved/listed.		
	8 User Training		
8.1	Must provide user training (including how to use and maintain the equipment).		
	9 Warranty		
9.1	Comprehensive warranty for min.2 year.and 3 years of maintenance contract.		
	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	The supplier must accomplish proper 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 number and costing.		


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COAGULATION ANALYZER (SEMI-AUTO) PT/TNR

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance Sheet Sheeet	
		YES/NO	Remarks
	COAGULATION ANALYZER, SEMI-AUTOMATED		
	MANUFACTURER		
	BRAND		
	TYPE / MODEL		
	COUNTRY OF ORIGIN		
1	DESCRIPTION OF FUNCTION		
	The analyzer should be capable of performing PT, APTT, Thrombin Time, Fibrinogen, and single or all factor assays or more.		
2	SYSTEM CONFIGURATION		
	Minimum 1-Channel Semi-automatic Coagulation Analyzer with the LCD.		
3	TECHNICAL SPECIFICATION		
A	The principle of clot detection should be turbodensitometric or equivalent measuring principle.		
C	Measuring Unit		
a	Minimum 1 measuring channels with light protection cap		
b	Controlled at Approx.37.5°C ± 0.4°C		
c	At least 4 incubation chamber		
D	Test Volume		
a	Micro cuvette for single/multi use		
E	Features		
a	Automated calculation of seconds, INR, %, g/l, mg/dl, Ratio		
F	Interfaces		
a	USB Ports or more interface.		
4	OPERATING ENVIRONMENT		
A	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.		
B	Power Supply: 220-240 VAC, 50Hz fitted with appropriate plug. The power cable must be approx. 3 metre in length.		
5	CERTIFICATION (STANDARD & SAFETY)		
A	ISO 13485 for medical devices.		
B	CE (EEC Derivative) and/or USFDA Approved.		
6	USER/TECHNICIAN TRAINING		
	Must provide user/technician training (including how to operate/use and perform routine maintenance on the equipment).		
7	WARRANTY (WRITTEN DOCUMENT)		
A	Comprehensive warranty for 2 years.		
B	During warranty period supplier must perform Preventive Maintenance Bi-annually and callibration of parameters with callibrators/controls.		
C	During warranty period supplier must ensure corrective/breakdown maintenance whenever required (within 48Hrs.)		
8	INSTALLATION AND COMMISSIONING		
	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.		
9	DOCUMENTATION		

MOH.PHC...
No.: 254 'Biome...

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance Sheet Sheet	
		YES/NO	Remarks
	COAGULATION ANALYZER, SEMI-AUTOMATED		
A	User (Operating) manual in English.		
B	Service (Technical / Maintenance) manual in English.		


 Biomedical engineer
 MOH-PHLMC-1
 EC No.: 254



Operating Light Ceiling Type (LED double Dome)

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance sheet
	Operating Light Ceiling Type (LED Double Dome)	YES/NO
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Operation theatre lights provide cool, shadow free.	
2	Operational Requirements	
2.1	Ceiling mount operating light with Two dome.	
3	System Configuration	
3.1	Operating light ceiling type having double dome with all standard accessories.	
4	Technical Specifications	
4.1	Spring balanced articulating arm, two sections.	
4.2	Lower/upper adjustment of dome.	
4.3	Diameter of dome, approximately 0.60m.	
4.4	Rotation: 180 deg or more	
4.5	bulbs: LED type bulb	
4.6	Field-of-view diameter, approximately 0.40m, with focus control.	
4.7	Light intensity approximately 160,000 lux or better.	
4.8	Colour temperature between 3500-4500K or better	
4.9	Removable autoclavable handle for dome.	
4.10	It shall design with minimal air resistance.	
4.11	Colour rendering index in between 92 – 94 or better.	
5	Accessories, spares and consumables	
5.1	<ul style="list-style-type: none"> 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 product offered shall be designed to store 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 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 requirement for Electrical safety of Medical Equipment.	
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 corrective/breakdown	

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 REC No.: 254 Biomedical

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's compliance sheet
	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.	
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.	

(S)

Biomedical Engineer
 MOH-PHLMC-1
 NEC No.: 254 'Biomedical'



TECHNICAL SPECIFICATION FOR Portable OT light with battery backup.

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	OT light with battery backup.			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description Of Function			
1	Description of Function			
1.1	Examination light/lamp use in hospital for general examination & surgical procedure in OT and in treatment rooms etc.			
2	Operational Requirements			
2.1	Shall operate on mains electric supply and should have battery backup			
3	System Configuration			
3.1	portable Ot light with all standard accessories.			
4	Technical Specifications			
4.1	Mobile examination light with sturdy construction and easily moveable.			
4.2	Shall have heavy base with swivel castors, with brakes.			
4.3	Low centre of gravity for optimal stability .			
4.4	Shall have single arm with Min 7 LED light.			
4.5	Homogeneous illumination across entire field-of-view, approx. 60.000 lux (at 0.5m).			
4.6	On/off switch incorporated in base or spring loaded articulating arm.			
5	Accessories, spares and consumables			
5.1	Accessories:			
	<ul style="list-style-type: none"> • 1 x spare set of fuses. 			
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 store 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 ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	CE or USFDA approved product certificate.			
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical Equipment.			
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 year after acceptance.			
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	Must supply preassembled unit, ready to use.			
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.			

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Elomedia Engineering
MOH-Ph-300-4
-C No.: 254 Elomedia

TECHNICAL SPECIFICATION FOR BED WITH RADIANT WARMER

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Bed with Radiant Warmer			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
	1 Description of Function			
1.1	A radiant warmer is used to keep the patient's core temperature stable at 37 °C.			
	2 Operational Requirements			
2.1	It shall be microprocessor controlled radiant warmer with manual and servo options.			
	3 System Configuration			
3.1	Radiant Warmer with Baby Bassinet, complete unit with all standard accessories.			
	4 Technical Specifications			
4.1	It must have facility to display both skin and air (ambient) temperature.			
4.2	It shall have audio-visual alarm facilities for:			
	· Overheating beyond set temperature range.			
	· Patient temperature less than or greater than the required temperature i.e. above or below the set range.			
	· Power failure.			
	· Heater failure.			
	· Probe failure.			
4.3	It must have manual setting for high and low alarm setting.			
4.4	The light must be dazzle free.			
4.5	In servo mode, the heater output must be controlled to maintain the baby at the required set temperature.			
4.7	In manual mode, the heater output must be directly controlled by a setting on the front panel.			
4.8	The desired temperature range from 25 to 40°C.			
4.9	It must be mounted on a pole with sturdy base with lockable castors.			
	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.			
	6 Operating Environment			
6.1	The system offered shall be designed to store 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	Shall be certified to meet ISO13485 for Medical Devices AND			
7.2	CE(EEC derivatives) 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 2 years after acceptance.			
	10 Maintenance Service during Warranty Period			
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
	11 Installation and Commissioning			


 Medical Engineering
 MOH-PH-LMG-1
 NEC No.: 254 Biomedical

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Bed with Radiant Warmer			
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	Service (Technical / Maintenance) manual in English.			
12.3	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.

Prepared by: 

Approved by:

Biomedical Engineer
 MOH-PHLMC-1
 NEC No.: 254 'Biomedical' 'A'

TECHNICAL SPECIFICATION FOR BED SIDE LOCKER

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	BED SIDE LOCKER			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1.1	A bedside locker simplifies the work of the caregiver and it enhances the comfort and autonomy of the patient in terms of accessibility, convenience and storage capacity.			
	2 Operational Requirements			
2.1	ABS made			
	3 System Configuration			
3.1	Bedside cabinet/locker, complete unit.			
	4 Technical Specifications(approx.)			
4.1	Feet to be capped with heavy duty plastic buffers.			
4.2	Overall size approx. size 800mm H x 380mm W x 380mm L			
4.3	Fitted with superimposed stainless steel top. Top to have lip or edge or retaining rail to prevent items slipping off, Finish must be smooth or ABS made.			
4.4	With stainless steel or abs towel rail.			
4.5	Bedside lockers provided with multiple storage cabinet and draw			
	5 Accessories, spares and consumables			
5.1	Not applicable.			
	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 Climate, Temperature, Humidity, etc.			
	7 Standards and Safety Requirements			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 AND			
7.2	CE or USFDA approved product certificate.			
	8 User Training			
8.1	Not applicable.			
	9 Warranty			
9.1	Comprehensive warranty for 2 year.			
	10 Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
	11 Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			
	12 Documentation			
12.1	Not applicable.			

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.


 Biomedical Engineer
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 NEC No.: 254 'Biomedical'

AUTOCLAVE, HORIZONTAL

S.N.	Purchaser's Specifications(Aaiselu kharka, Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Autoclave, Horizontal			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function Autoclave, Horizontal for sterilization.			
2	Operational Requirements Autoclave, Horizontal for sterilization.			
3	System Configuration Autoclave, Horizontal with complete with accessories.			
4	Technical Specifications			
A	The autoclave shall be Horizontal type.			
B	Capacity: 250L or more.			
C	Industrial immersion type water heater to generate steam within a reasonable period of time on 2/3 phase 220/440V 50 HZ ac supply.			
D	Operating pressure: 2 Bar (30 psig/2280 mmHg) or higher			
E	Operating temperature: 121°C or more.			
	Material of Construction:			
	a Outer/Inner chamber, Jacket, Door: SS 304 .			
	b Steam generator: Non corrosive SS /Chromium plated Brass.			
	c Heater Plate: Brass/Stainless steel.			
F				
G	Shall have temperature, pressure and vacuum gauges. Etc			
H	Safety Features:			
	b Gauge glass with safety valves.			
	c Heat resistant door silicon gasket for steam tight sealing.			
I				
5	Operating Environment			
A	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.			
B	Power supply: 220 – 240 VAC or 440V-460V, 50Hz fitted with appropriate plug.			
6	Standards and Safety Requirements			
A	This unit must be certified to meet ISO13485, EN 13445 or ASME BPV Code Section VIII, or equivalent.			
B	Submit the IEC 61010-2-040 or equivalent certificate for electrical safety.			
7	User/Technician Training			
	Must provide user/technician training (including how to use and maintain the equipment).			
8	Warranty			
	Comprehensive warranty for 2 years from acceptance.			


 Biomedical Engineer
 MOH-PHLMC-1
 EC No: 25A (Biomedical)

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8	Maintenance Service During Warranty Period			
	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
10	Installation and Commissioning			
11	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			
A	User (Operating) manual in English			
B	List of important spare parts and accessories with their part number and costing.			

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.


 Biomedical engineer
 MOH-PHILMC-1
 EC No: 25A

VDRL Shaker

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page no.in catalogue	Remarks
	VDRL Shaker			
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
	1 Description of Function			
1.1	Required for rotating slides for VDRL (Venereal Disease Research Laboratory) tests.			
	2 Operational Requirements			
2.1	Must have rotation in horizontal plane.			
	3 System Configuration			
3.1	VDRL Shaker complete unit.			
	4 Technical Specifications			
4.1	Platform size Approx.25x25cm for keeping reaction trays.			
4.2	Timer with 0 to 30 minutes for control of shaking duration with 1 minute interval.			
4.3	Must have built in speed regulator with maximum speed of 150-180 rpm.			
	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 specified above).			
	6 Operating Environment			

Nepal Engineering College

 Mon, 04/11/2024 10:58:11 AM

 NEC No.: 254 Elbina

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 V AC, 50Hz Single Phase fitted with appropriate plug. 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.			
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 year after acceptance.			
10 Maintenance Service During Warranty Period				
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11 Installation and Commissioning				
11.1	Supplier must accomplish proper commissioning of the equipment on site.			
12 Documentation				
12.1	User (Operating) manual in English			


 Biomedical Engineer
 MOH-PHLMC-I
 NEC No.: 254 Biomedical

Colorimeter

S.N.	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/ No	Page no.in catalogu e	Remarks
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	Description of Function			
1.1	General purpose colorimeter use in clinical laboratory.			
2	Operational Requirements			
2.1	Microprocessor controlled system.			
3	System Configuration			
3.1	Colorimeter with complete accessories.			
4	Technical Specifications			
4.1	Must have 8 no of filters wave length from 400 nm to 700 nm.			
4.2	Must have a 3 digit LED display calibrated directly in optical density.			
4.3	Detector must be encased spill proof photocell.			
4.4	Must have facilities for concentration, calculation, percentage transmission and optical density.			
4.5	Lamp source: Broad spectrum LED or halogen.			
5	Accessories, spares and consumables			
5.1	Accessories:			
	Cuvettes: 5 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			



 Biomedical Engineer
 MOH-PH.LMC-1
 MEC No.: 254 'Biomedical'

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.			
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.			
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
9.1	Comprehensive warranty for 2year after acceptance.			
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.			


 Biomedical Engineer
 MOH-PHLMC-1
 NEC No.: 254 'Biomedical'

TECHNICAL SPECIFICATION FOR PHOTOTHERAPY UNIT (LED)

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Phototherapy Unit (LED)			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description of Function			
1.1	Phototherapy units are used to treat hyperbilirubinemia, a condition characterized by high bilirubin concentrations in the blood. These units are also called: bilirubin lamps, bilirubin lights, fiberoptic phototherapy blankets, neonatal phototherapy units			
2	Operational Requirements			
2.1	It is for treatment to reducing high concentrations of bilirubin in neonates			
3	System Configuration			
3.1	Phototherapy unit with complete accessories.			
4	Technical Specifications			
	Phototherapy Unit:			
	The light housing shall be made of mild steel construction with anti-corrosive and antirust treated epoxy powder coating washable finishes.			
	White light is to provide lighting for diagnosis and observation.			
4.1	Blue and white light shall have separate switch and be switched on/ off separately.			
	The phototherapy shall come with a quiet, no noise built-in fan.			
	The phototherapy light housing shall be rotatable with locking mechanism.			
	Mobile Stand :			
4.2	The light housing shall be mounted on a rectangular mobile stand with robust swivelling castors with lockable brakes.			
	Must come with a screw-locking knob for height adjustment.			
	The phototherapy unit must be stable and must not shake when moving.			
5	Accessories, spares and consumables			
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 store 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	Shall be certified to meet ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	CE(EEC Derivatives) or USFDA.			
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 warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			

Biomedical Engineering Department
 MOH-PHL, Khotang, Nepal
 No.: 254

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Phototherapy Unit (LED)			
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	Documentations			
12.1	User (Operating) manual in English.			
12.2	Service (Technical / Maintenance) manual in English.			
12.3	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.

Prepared By:


 Biomedical Engineer
 MOH-PHLMC-1
 NEC No.: 254 'Biomedical'

Approved by:

TECHINICAL SPECIFICATION FOR TROLLEY, INSTRUMENTS

S.N	Purchaser's Specifications(Aaiselu kharka,Khotang FY:2082/2083)	Bidder's Compliance Sheet		
		Yes/No	Page No. in Catalogue	Remarks
	Trolley, INSTRUMENTS			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
	1 Description of Function			
1.1	A INSTRUMENT trolley for storage and delivery of medicines/instruments to patients in wards of healthcare facilities.			
	2 Operational Requirements			
2.1	Stainless steel instruments trolley with swivel castors.			
	3 System Configuration			
3.1	instrument Trolley, complete unit.			
	4 Technical Specifications			
4.1	It shall be constructed fully with 304 grade stainless steel sheet and tube or better.			
4.2	Overall size: approximately 650× 475× 970mm.			
4.3	Frame work made up of M.S. or SS tubes.			
4.4	Multiple drawers (minimum 2) made of high quality materials with telescopic channels, below the platform.			
4.5	Shall be mobile on 4 robust 360 deg. anti-rust, anti-static, noiseless, swivel castors & shall have brakes.			
	5 Accessories, spares and consumables			
5.1	To be supplied with all standard accessories, spares and consumables for complete functionality of the product.			
	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 Climate, Temperature, Humidity, etc.			
	7 Standards and Safety Requirements			
7.1	Shall be certified to meet ISO 9001 or ISO 13485:2003/AC:2007 and			
7.2	CE approved product certificate.			
	8 User Training			
8.1	Not applicable.			
	9 Warranty			
9.1	Warranty for 2 year after acceptance.			
	10 Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
	11 Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			

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.


 Biomedical Engineer
 MOH-PHLMC-1
 MEC No.: 254 Biomed-1-2022

Technical specification of medical items(Aaiselu kharka rural mun FY:2082/83)

S.N.	Item Name	Technical Specifications
1	Autoclave	Top-loading steam sterilizer with a minimum 20-30L capacity. Must include a stainless steel drum, safety pressure valve, .ISO and CE certified.
2	Cesarean Section Set	Complete surgical grade stainless steel instrument set. Must include various sizes of scalpel handles, artery forceps, retractors (Doyen's), needle holders, and suction tubes in a sterilizable box.ISO certified.
3	Drum (Small & Big)	High-quality seamless stainless steel sterilization drums with a locking system. Must feature adjustable side air vents and be corrosion-resistant for long-term autoclave use.
4	Bed Screen	Three or four-fold foldable privacy screen with a stainless steel or powder-coated frame. Must include washable/flame-retardant curtains and swivel castors for easy movement.
5	IV Stand	Height-adjustable stainless steel pole (approx. 130cm to 210cm) with four hooks. Must feature a heavy five-leg weighted base on anti-static swivel castors for stability.
6	Aluminium Foot Step	double-step stool with a heavy-duty aluminium frame. Must include a non-slip rubber mat surface and rubber-tipped legs to prevent sliding.
7	Chetal Forcep with Jar	Stainless steel Chetal forceps (approx. 10 inches) for handling sterile instruments. Accompanied by a heavy-duty stainless steel or glass jar with a stable base.
8	Halogen Room Heater	Energy-efficient halogen heater with at least two heat settings (e.g., 400W/800W). Must include a wide-angle oscillation feature and a safety tip-over switch for fire prevention.
9	Stretcher	Heavy-duty emergency trolley stretcher with a high-strength aluminium or steel frame.breakable swivel wheels for safe transport.
10	Ambu Bag	Self-inflating silicone resuscitator bag (Adult/Pediatric sizes) with a non-rebreathing valve. Must include a reservoir bag, oxygen tubing, and transparent face masks.
11	Infrared Thermometer	Non-contact digital thermometer with a high-precision infrared sensor. Features should include a backlit LCD, fever alarm, and a response time of 1 second or less.
12	Nebulizer Set	High-performance compressor nebulizer for respiratory therapy. Must include a jet nebulizer cup, adult/child masks, and extra filters, providing a fine aerosol mist for efficient drug delivery.ISO and CE certified.
13	Waste Bins (80L, Different Colours)	Heavy-duty HDPE plastic bins with a foot-pedal operated lid for hands-free use. Must be color-coded (Red, Yellow, Blue, Green) according to biomedical waste management protocols.
14	BP Set with Stethoscope	Aneroid sphygmomanometer with a durable nylon cuff and easy-to-read gauge. Includes a dual-head stainless steel stethoscope with high acoustic sensitivity for adult and pediatric use.ISO and CE certified.
16	Otoscope	Professional diagnostic otoscope with fiber-optic illumination and LED bulb. Must include a magnifying lens and a set of reusable or disposable ear specula of varying sizes.ISO and CE certified.
17	Duck/Nasal Speculum	Surgical grade stainless steel Cusco (Duck) or Killian (Nasal) speculum. Must have a smooth adjustable screw mechanism and be fully autoclavable.
18	MVA Set	Manual Vacuum Aspiration kit including a double-valve syringe and a range of flexible/rigid cannulae. Must be made of medical-grade, latex-free materials and be easy to disassemble for cleaning.
19	Bed Pan / Urinal	Contoured stainless steel or heavy-duty autoclavable plastic bed pans and urinals. Must be leak-proof, easy to clean, and designed for patient comfort.

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20	Spinal Board	High-density polyethylene (HDPE) rigid backboard for emergency immobilization. Must be X-ray translucent, floatable, and include multiple handholds and safety straps.	55
21	Patient Trolley	Heavy-duty steel frame construction with a removable or integrated stretcher top. Must include adjustable side rails, an IV pole attachment, and high-quality swivel castors with a central braking system for patient safety.	22
22	Trolley for Transportation	Multipurpose medical trolley with a stainless steel or powder-coated finish. Features at least two or three spacious shelves with raised edges to prevent items from falling, and ergonomic handles for smooth maneuverability in hospital corridors.	37
23	Handheld Pulse Oximeter	Compact, sturdy handheld device for continuous monitoring of SpO2 and pulse rate. Must feature a clear color LCD/TFT display with plethysmographic waveform, adjustable audio-visual alarms, and a rechargeable battery with at least 8 hours of backup. ISO13485 and CE certificate.	41
24	Handheld Pulse Oximeter	High-sensitivity handheld oximeter specifically designed for low perfusion and motion-tolerant conditions. Must be supplied with a soft, reusable neonate wrap sensor (suitable for infants) and provide reliable readings even in clinical neonatal environments. ISO13485 and CE certificate.	57

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