कृष्णपुर नगरपालिका
नगर कार्यपालिकाको कार्यालय

गुलरिया, कञ्चनपुर, सुदूरपश्चिम प्रदेश, नेपाल

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प.सं. :- २०८२/०८३
च.नं. :- ८६०

मितिः २०८२/०८/२४

श्री सम्बन्धित सबै,

विषयः दरभाउ उपलब्ध गराईदिने बारे।

प्रस्तुत विषय सम्बन्धमा यस कार्यालयको मेडिकल तथा अन्य उपकरणहरुको खरिद प्रक्रिया अगाडी बढाउनका निमित्त तपसिल बमोजिमका सामाग्रीहरुको प्रचलित बजार दरभाउ सात (७) दिन भित्र उपलब्ध गराईदिनहुन अनुरोध छ। साथै उक्त उपकरणहरुको यस कार्यालयबाट स्वीकृत स्पेशिफिकेशन समेत यसै पत्र साथ संलग्न राखि पठाईएको व्यहोरा जानकारीको लागि अनुरोध छ।

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तपसिलः

सि.नं.	विवरण	ईकाई	प्रति ईकाई दर जडान शुल्क समेत (मु.अ.कर सहित)	कैफियत
१	Color Doppler Portable USG machine			
२	ECG machine (12 Channel)			
३	X-ray machine 500 mA			
४	CR system X-ray			
५	DR system flat panel detector with printer and workstation X-ray			
६	Fluorescent Microscope			
७	Table, Examination (Fixed Height)			
८	Bed, Delivery (Manual)			
९	Infant Radiant warmer			
१०	Autoclave Electric			
११	Sterilizing Drum			
१२	Wheelchair foldable			
१३	Stretcher, Patient with Side Rails			
१४	Patient Transfer Trolly			

Color Doppler Portable USG Machine

S.N.	Purchaser's Specifications	Remarks
	Color Doppler Portable USG Machine	
	Manufacturer:	
	Brand:	
	Type / Model:	
	Country of Origin:	
1	**Description of Function**	
1.1	A general-purpose portable notebook/laptop type color Doppler ultrasound imaging system, widely used in the diagnosis of abdomen, obstetrics, gynecology, 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, 1 unit of black and white thermal printer and Ultrasound Trolley 1 unit.	
3.2	1 unit of broad bandwidth of 2 - 5MHz, convex array probe for OB/GYN and abdominal application.	
3.3	1 unit of broad bandwidth of 12 - 3MHz, linear array probe for small part and superficial scanning application.	
4	**Technical Specifications**	
4.1	The unit should be portable, compact, lightweight and portable having weight less than 7Kg including batteries.	
4.2	Shall have long lasting built-in rechargeable Lithium ion battery which shall support up-to one hours of routine ultrasound examinations.	
4.3	The system must be offered with at least 15 inch or higher Anti- Flickering Flat Panel Medical grade LCD/LED Display monitor with 1920x1080 resolution or more.	
4.4	Boot up time should be less than 30sec.	
4.5	Transducer Socket: 2 active transducer connectors.	
4.6	The system shall accept most of the common probe types: convex array, linear array, phased array.	
4.7	**Modes:** B-Mode, M-Mode, Color-Flow Doppler, Pulsed Wave Doppler, Continued Wave Doppler and Power Doppler	
4.8	The system shall accept most of the common probe types of: convex array, linear array, phased array and TVS.	
4.9	Should have at least 256 gray shades.	
4.10	Dynamic range 200 dB or more.	

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4.11	The system should support: • Compound imaging • Tissue Harmonic Imaging • Tissue Doppler Imaging • Color M mode • IMT measurement	
4.12	System should support broad band probes spanning a frequency of 1-16 MHZ with multiple 5 frequencies or more range in B mode.	
4.13	B mode & B colour simultaneously should be available side by side real time display of B-Mode & Colour flow.	
	System should have highly sensitive blood flow detection technology and should must mention the technology available in the system.	
4.14	The system should have Speckle Reduction Technology.	
4.15	Shall have facility for image zoom, freeze, text annotation.	
4.16	System should have ability to enhance tissue margins and improve contrast resolution by reducing artifacts and improving visualization of texture patterns and needle tip within the image.	
4.17	Cine memory: at least 10,000 frames.	
4.18	Frame rate: not less than 400 fps.	
4.19	Display depth: minimum 40 cm or more.	
4.20	Facility for high-definition digital acquisition, review and editing of complete patient studies.	
4.21	Application specific examination protocols with common setting related to image display / adjustment, annotation & measurements.	
4.22	Obstetric analysis: BPD, CRL, AC, HC, FL, GS, AFI, etc. for estimation of gestational age, fetal weight, heart rate, etc.	
4.23	TGC and LGC: Min. 8 Control	
4.24	System should have Needle Enhancement Software.	
4.25	Should have one Key Image optimization function.	
4.26	Storage Capacity: at least 1 TB.	
4.27	System shall be DICOM compatible.	
4.28	System should have S-Video, VGA, USB and Audio output or Equivalent ports with provision for storage of Images and Transfer to External Devices.	
4.29	It should be provided with factory made trolley on castors to hold the main unit on top with provision of a probe holder and drawers for storage of probes, printer and accessories.	
4.30	System should support ECG Function for immediate upgradability in future.	
5	**Accessories, spares and consumables**	

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5.1	Each USG Machine shall be supplied with following accessories: • Convex Probe: 1 pc (as per specification) • Linear Probe: 1 pc (as per specification • Ultrasound gel bottles: 2 bottles (250ml) • Trolley: 1 pc	
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	Power supply: 220 – 240VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meters in length.	
7	**Standards & Safety Requirements**	
7.1	Must submit ISO 13485 for Medical Devices.	
7.2	Must submit valid European CE issued from an EU registered notified body having notification number, along with all related regulatory documents.	
7.3	Must submit USFDA 510(k) documents of quoted model, along with all related regulatory documents.	
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 2 years after acceptance. The warranty starts from the day of complete satisfactory installation of the equipment.	
10	**Maintenance Service During Warranty Period**	
10.1	During warranty period supplier must ensure at least 1 preventive maintenance visits annually and corrective/breakdown maintenance whenever required.	
11	**Installation and Commissioning**	
11.1	It Shall be installed and commissioned by the Supplier at the final destination.	
12	**Documentation**	
12.1	Service (Technical / Maintenance) and User (Operating) manual in English.	
12.2	Must submit the original brochure or e-copy	

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Technical Specification of

ECG Machine (12 Channel)

S.N.	Purchasers Requirement	Bidder's Compliance Sheet		
	ECG Machine (12 Channel)	**Yes/No**	**Page No**	**Remarks**
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**Description of Function**			
1.1	ECG Machine is a primary equipment used for recording ECG signal in various configurations.			
2	**Operational Requirements**			
2.1	It should be portable type digital ECG machine that is able to acquire all 12 channel ECG lead simultaneously for adult, pediatric and neonatal applications.			
3	**System Configuration**			
3.1	Portable digital 12 channel ECG machine with complete accessories.			
4	**Technical Specifications**			
4.1	It should have at least 7 inch or more high-resolution color display with touch screen and alphanumeric keyboard.			
4.2	The digital display must be able to show ECG-curves, heart rate, patient name and ID, time, speed, filter setting, etc.			
4.3	Should have simultaneous recording and printing of 12 standard leads: V1-V6, I, II, III, aVL, aVR and aVF.			
4.4	Should have Filter setting for line-frequency (50 or 60Hz).			
4.5	Should have built in memory which can store at least 100 ECG recordings.			
4.6	Should have continuous check on the quality of electrodes connection, audio visual alert on loss of signal.			
4.7	Should have protection against defibrillation.			
4.8	Should provide indication of system and battery			

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S.N.	Purchasers Requirement	Bidder's Compliance Sheet		
	status, electrode connection and paper.			
4.9	Should have built-in high-resolution thermal printer able to print ECG waves in A4 or equivalent paper size either in roll or z-fold paper.			
4.10	The printer should have automatic and manual print-out mode with user selectable channel printing option.			
4.11	Should have user selectable paper speed: 5, 6.25, 12.5 25 and 50 mm/sec.			
4.12	Should be able to measure: HR, PR Interval, P Duration, QRS Duration, T Duration, QT/ QTc Interval, P/QRS /T Axis, etc.			
4.13	Should have rechargeable lithium battery integrated in device with at least 2 hours of backup with printing.			
4.15	Data interface: RS232, USB or equivalent.			
5	**Accessories, spares and consumables**			
5.1	**Each ECG machine must be supplied with following set of accessories:** • Reusable Patient cable - 1 set. • Reusable electrodes for adult - 1 set • Extremity clamp electrodes, reusable- 4 pcs. • Earthing Cable - 1 pc. • Recording paper rolls/z-fold – 2 rolls/2bundle			
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials must be provided by the bidders.			
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 Power Supply, Climate, Temperature, Humidity, etc.			
6.2	**Power supply**: 220 - 240 VAC, 50Hz fitted with appropriate plug.			

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S.N.	Purchasers Requirement	Bidder's Compliance Sheet		
7	**Standards and Safety Requirements**			
7.1	Must submit valid ISO 13485 or better certificate for Medical Devices.			
7.2	Must submit valid EU-CE certificate including other related documents from notified body with notifying body number.			
7.3	The product must be USFDA 510(k) approved and bidders must submit the related document.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 3 years that starts from the day of complete satisfactory installation of the equipment.			
10	**Maintenance Service During Warranty Period**			
10.1	During warranty period supplier must ensure at least 2 preventive maintenance visits annually and corrective/breakdown maintenance whenever required. (Written commitment to be provided by the bidder.)			
11	**Installation and Commissioning**			
11.1	The bidder must arrange for the equipment tobe 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	Must provide user (Operating) manual in English upon installation.			
12.2	Must provide service (Technical / Maintenance) manual in English upon installation.			

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S.N.	Purchasers Requirement	Bidder's Compliance Sheet		
12.3	Must submit certificate of calibration and inspection from factory.			

Technical Specification of
500 mA X-ray Machine

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	500 mA X-ray Machine	**Yes/No**	**Page No.**	**Remarks**
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**Description of Function**			
1.1	A general purpose 500mA X-ray machine with Floor mounted Ceiling Free Stand (CFS), Vertical Bucky Stand and Table.			
2	**Operational Requirements**			
2.1	It must be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on AC power supply.			
3	**System Configuration**			
3.1	X-ray Generator, 1 unit.			
3.2	X-Ray tube & tube support system, 1 unit.			
3.3	Radiographic patient table, 1 unit.			
3.4	Vertical bulky stand, 1 unit.			
4	**Technical Specifications**			
A	**X-Ray Generator:**			
4.1	It should be microprocessor based, high frequency generator with the frequency of at least 40kHz.			
4.2	Output Power: at least 40 kW.			
4.3	Output Radiographic Voltage Range: 40 kV to 125Kv or more, in step of 1kV.			
B	**Control Panel:**			
4.4	It should have digital display of kV and mA/mAs.			
4.5	It should have minimum 2-point exposure technique (KV / MAS).			
4.6	Shall display various x ray status, error, etc.			
4.7	Shall come with radiography hand switch in control room.			
4.8	Anatomical preprogrammed (with at least 150 programs) parameters of various anatomical positions should be available to select exposure parameters.			

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4.9	A two-step hand switch should be provided for taking images from a safer distance.			
C	**X-Ray Tube:**			
4.10	Exposure voltage: 125KV or more			
4.11	Exposure current: 500mA or more			
4.12	It should have dual focal spot with focal spot of approximately 1mm and 2 mm.			
4.13	Anode heat capacity should be at least 140 KHU.			
D	**Floor Mounted Tube Stand:**			
4.14	It should be floor mounted ceiling free tube stand. It should be mounted on 2 railings on the floor.			
4.15	The rotation of tube around the vertical axis should be at least +/-90° or more.			
4.16	Must have electromagnetic braking/locking system.			
E	**Radiography Patient Table:**			
4.17	It shall be radio translucent 4-way movement floating table i.e., movement possible along the x axis and y axis. Load capacity: at least 180kg.			
4.18	The Table should consist of motorized reciprocating Bucky with Grid. Grid Size: 17 ¼" x 18 7/8" Grid Ratio: 8:1 Grid LPI: at least 85 lines/inch			
4.19	The Bucky should be locked at any desired length position by an electromagnetic brake/lock.			
4.20	The tabletop should be made of low radiation absorption as well as water proof material.			
4.21	It should be able to accept all the cassette size up to 14"x17".			
4.22	Various table accessories such as SS cassette tray, compression band, etc. must be provided with the system.			
F	**Floor Mounted Bulky Stand:**			
4.23	It should be floor mounted vertical Bucky stand with oscillating Grid and SS cassette with following parameters: Grid Ratio: 8:1 Grid LPI: at least 85 lines/inch			
4.24	The Bucky must have smooth up & down movement.			
4.25	It should be able to accept all the cassette size up to 14"x17".			
5	**Accessories, Spare Parts and Consumables**			
5.1	**Must be provided with following accessories:** • Lead Apron: 1 Nos. • Thyroid shield: 1 Nos. • LED View Box: 1 Pc			
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. Bidder's must specify the quantity of every item			

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	included in their offer (including items not specified above).			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, humidity, etc.			
6.2	Should be provided with suitable external servo voltage stabilizer compatible with the x-ray machine if only required.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO13485 certificate for Medical Devices.			
7.2	The product model must me European CE marked and must submit related documents from notified body having notifying body number OR must submit USFDA 510(k) approved/cleared product certificate/documents.			
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 2 years for the entire system after acceptance.			
10	**Maintenance Service During Warranty Period**			
10.1	During warranty period supplier must ensure at least 2 preventive maintenance visits annually and corrective / breakdown maintenance whenever required.			
11	**Installation & 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	Must provide user (Operating) manual in English upon installation.			
12.2	Must provide service (Technical / Maintenance) manual in English upon installation.			

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Technical specification of
Computed Radiography (CR) System

S.N	Purchaser's Technical Specifications	Bidder's Compliance Sheet		
	Computed Radiography (CR) System	**Yes/No**	**Page No.**	**Remarks**
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1.	**Description of Function**			
a.	Radiography system to replace conventional Film/Screen based X-Ray processing techniques with Photostimulable Phosphor Plate technology to obtain digital X-ray images.			
2.	**Operational Requirements**			
a.	The system shall be able to record X-Ray images on Imaging Plates (IP)			
3.	**System Configuration**			
a.	Image Reader System: 1 Unit			
b.	Double Tray Imaging Printer (film based):1 Unit			
c.	CR Workstation: 1 Set			
d.	IP/Cassette: 8x10, 10x12, 14x17 Each 1 pcs			
4	**Technical Specifications**			
4.1	**Image Reader**			
a.	IP processing rate minimum 45 IP/hr or more.			
b.	Scanning mechanism to read, erase and process the images from the imaging plate. (IP)			
c.	Panel for indicating online status, Error Status of the CR Reader.			
d.	Must accept IP/Cassette of size 8x10, 10x12, 14x17 or more.			
4.2	**Double Tray Imaging Printer(film based): 1 Unit**			
a.	The system must have at least two trays and should be capable of printing any of the 8"X10", 10"X12", 11"X14" 14"X17" films.			
b.	Printer should have dry Laser image Technology or Thermal printer, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.			
c.	The imaging printer should have speed of minimum throughput of 70 sheets or more per hours for the largest film size of 14" x 17"			
d.	Print images from CR workstation, in DICOM 3 format.			
e.	Printer should provide image depth of 14 bits or more			

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f.	Resolution> 500 DPI.			
g.	Film Loading: Daylight			
4.3	**IP/Cassettes size:**			
a.	CR system should be provided with the following cassettes and imaging plates. • 8 x 10 in: 1 Pcs. • 10 x 12 in: 1 Pcs. • 14 x 17 in: 1 Pcs.			
4.4	**CR Imaging Workstation:**			
a.	Computer Configuration: CPU – Intel i5 or better, RAM – 8GB, 500 SSD, OS Windows 10 or better.			
b.	Display Monitor: at least 23 Inch of 1900x1020 Pixel size approx.			
c.	Operating console must have facility for patient identity entry, viewing and processing images, documentation.			
d.	Come with free software upgrade and Free Service within the lifespan of the system. Bidder must declare his compliance with this condition here.			
e.	Measurement tools, zoom and Pan, Brightness and contrast adjustment, horizontal and vertical flip, actual size printing capability for accurate representation of anatomical size. Feature to support emergency patient study, auto reason and functionality with reason.			
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.	Suitable Online UPS to support the workstation.			
6.	**Operating Environment**			
a	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards and Safety Requirements**			
a.	Must submit valid ISO13485 for Medical Devices			
b.	The product model must me European CE marked and must submit related documents from notified body having notifying body number or a Declaration of Conformity must be submitted if it is a low-risk class I product OR must submit USFDA 510(k) approved product certificate/documents.			
8.	**User Training**			

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a.	Must provide user training (including how to use and maintain the equipment).			
9.0	**Warranty**			
a.	Comprehensive warranty for 2 years from the date of installation.			
10.	**Maintenance Service During Warranty Period**			
a.	During warranty period supplier must ensure at least 2 preventive maintenance visits annually and corrective / breakdown maintenance whenever required.			
11.	**Installation and Commissioning**			
a.	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	**Documentation**			
a.	User (Operating) manual in English			
b.	Service (Technical / Maintenance) manual in English.			

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Technical Specification of
Flat Panel Detector (DR) with Printer and WorkStation

S. N.	Purchaser's Specifications	Bidders Compliance Sheet		
	Flat Panel Detector (DR) with Printer and WorkStation	**Yes/No**	**Page No**	**Remarks**
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Functions**			
1.1	The Flat Panel direct digital radiography units (Portable type) for general purpose radiology examinations with Workstation. It should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.			
2	**Operational Requirements**			
2.1	Flat Panel digital detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.			
3	**System Configuration**			
3.1	Digital Radiography (DR) Flat Panel Detector – 1 Unit			
3.2	Double Tray Imaging Printer – 1 Unit			
3.3	Imaging Workstation – 1 Unit			
4	**Technical Specifications**			
I	**Flat Panel Detector**			
4.1	Detector Panel shall be made of amorphous Silicon with CsI.			
4.2	The detector should be portable and wireless.			
4.3	Flat Panel Detector size approx. 14 x 17 inches with weight less than 4 Kg.			
4.4	Pixel size: 150 micron or less.			
4.5	Resolution: 2.5lp/mm or more.			
4.6	16 bits or more A/D conversion.			
4.7	Image preview time should be less than 5 sec.			
4.8	Should have AED (automatic exposure detection) and line trigger mode.			
4.9	The Detector should have Lithium ion or Lithium Polymer Technology battery. Battery Performance: 4 Hrs or 400 images per charge			

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4.10	The detector should be provided with two batteries along with a set of battery charger.			
4.11	The Detector should be able to withstand surface load of 150kg.			
4.12	Easy to carry and use			
4.13	Software should have DICOM & PACS connectivity as a standard feature			
4.14	Detector should have at least IPX1 rating or better.			
II	**Imaging WorkStation:**			
4.15	Computer Configuration: CPU – Intel i3 or better, RAM – 8GB, HDD – 200GB, OS Windows 7 or better.			
	Display Monitor: at least 23" LCD of 1900x1020 Pixel size approx.			
4.16	Operating console must have facility for patient identity entry, viewing and processing images, documentation.			
4.17	Come with free software upgrade within the lifespan of the system. Bidder must declare his compliance with this condition here.			
4.18	Measurement tools, zoom and Pan, Brightness and contrast adjustment, horizontal and vertical flip, actual size printing capability for accurate representation of anatomical size. Feature to support emergency patient study, auto reason and functionality with reason.			
4.19	Should have upgradable features for Long Length Image Stiching.			
III	**Imaging Printer (film based):**			
4.20	The system must have at least two trays and should be capable of printing any of the 8"X10", 10"X12", 11"X14", 14"X17" films.			
4.21	Printer should have dry Laser image Technology or Thermal printer, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.			
4.22	The imaging printer should have speed of minimum throughput of 50 sheets or more per hours for the largest film size of 14" x 17"			

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4.23	Resolution ≥ 500 DPI.			
4.25	Easy to operate			
4.26	Contrast: 14-bit contrast resolution or more.			
4.27	Film Loading: Daylight			
4.28	The DR Panel and Imaging Printer should be from the same brand / company.			
5	**Accessories, Spare Parts 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).			
5.2	Suitable Online UPS to support the workstation.			
6	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
7	**Standards & Safety Requirements**			
7.1	Must submit valid ISO13485 for Medical Devices for Detector Panel and Printer.			
7.2	The product model must me European CE marked and must submit related documents from notified body having notifying body number or a Declaration of Conformity must be submitted if it is a low-risk class I product along with all related regulatory documents.			
7.3	Must submit USFDA approved/cleared product certificate of DR panel, along with all related regulatory documents.			
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 the date of installation and extra 1 years free after sales service upon completion of warranty must be provided.			

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10	**Maintenance Service During Warranty Period**			
10.1	During warranty period supplier must ensure preventive maintenance & 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.			

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Standards for Fluorescent Microscope 2081/82

S.N.	Purchaser's Specification	Remarks
	Fluorescent Microscope	
	Manufacturer	
	Brand	
	Model	
	Country of Origin	
1	**Description of Function:**	
1.1	Alight microscope used to study properties of organic or inorganic substances, in our case Acid Fast Bacilli (AFB) in sputum smear with Auraine O stain, using the phenomena of fluorescence and phosphorescence instead of or in addition to reflection and absorption.	
2	**Operational Requirements:**	
2.1	The usage requires fatigue/stain free long hours of viewing through the microscope.	
2.3	Can be switched between fluorescence and bright field illumination without any additional setup and apparatus.	
3	**General:**	
3.1	It should be a binocular microscope with fluorescence.	
3.2	All optical parts including objectives, eyepieces and prisms should have anti-reflection coating along with anti-fungal properties.	
3.2	Microscope should be made out of maximum metallic parts and must be corrosion proof, acid proof and stain proof.	
3.4	All parts of the microscope including removable parts should have manufacturer's name engraved on it.	
3.5	The supplier should supply with a complete assembled microscope in storage/transport case along with a dust cover. The case/box should have storage facilities for all the accessories (e.g. Objective, eyepiece, etc.) with appropriate carrying handle at the top. It should also contain a bag of activated silica gel to keep the moisture level under control.	
3.6	Should have changeover switch for Transmitted light / reflected light (Bright field / Fluorescence)	
4	**Technical Specification:**	
4.1	**Microscope Body:**	
a	Should be sturdy and stable.	
b	All metallic microscope body with focus control knobs located ergonomically for comfortable and prolonged usage.	

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c	Should have a built-in transmitted illumination with collimating lens, variable field diaphragm and secured filter holder for blue filter.	
4.2	**Focusing knob:**	
a	Co-axial coarse and fine focusing knobs conveniently located on either side of the stand for smooth and comfortable focusing over long usage.	
b	Should have a focus stop safety mechanism to avoid mechanism to avoid accidental breakage of slides.	
c	The fine focus movement should have sensitivity of 2 microns or less.	
4.3	**Nose piece:**	
a	Revolving.	
b	Should accommodate minimum 4 objectives with ribbed grip.	
4.4	**Stage:**	
a	Uniformly horizontal.	
b	Should have conveniently located X-Y coaxial movement knobs for easier use.	
c	Should have spring loaded precision slide holder for easy slide loading and removal.	
d	Should have ball guide mechanism for smooth movement with traverse range of 80±10 mm in X- direction and 30±10 mm in Y-direction.	
4.5	**Binocular eyepiece tube:**	
a	Inter-pupillary distance adjustment range of 50-75mm.	
b	Rotatable by 360 degrees.	
c	Should have 20-30 degrees inclined eyepiece tubes for comfortable and prolonged use.	
4.6	**Eyepiece:**	
a	Paired high quality achromatic.	
b	Wide field of 10X .	
c	Should be flat field and have minimum field number of 18 mm.	
d	Diopter adjustment must be available for both eyepiece and should be suitable for spectacle wearers.	
e	Should be safety secured to the binocular tube for any accidental fallout or damage during transit.	
f	Both the eyepieces should be provided with special rubber eye-cups to block any stray light leakage during Fluorescence light observation.	
g	The image seen through the eyepieces should be well-defined with flat and sharp focus throughout the field of view without any contrast and color losses.	

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4.7	**Sub-stage Condenser:**	
a	Abbe condenser with numerical aperture 0.9/1.25	
b	Built-in aspherical lens and aperture diaphragm with lever.	
c	Provision to center the field diaphragm.	
4.8	**Transmitted light illumination:**	
a	Should have built-in transmitted illuminator into the microscope stand with a long life white light Minimum 3WIED and must have at least 20,000 hours of operation.	
b	The regulator knob for varying the intensity of white light LED should be conveniently positioned at the focus knobs of the microscope.	
c	The LED illuminator should have a diffuser, collimating lens and a variable field diaphragm according to Koehler's principle.	
4.9	**Epi-Fluorescent illumination:**	
a	Fully integrated Epi-florescent illumination tube with built-in blue LED light source.	
b	Intensity regulating control knob should be conveniently located with an easy and quick changeover knob for transmission to Epi-fluorescent illumination and vice-versa.	
c	The fluorescent illumination tube should have a built-in fluorescent filter unit suitable for "Auramine O" fluorescent dye.	
4.10	**Objectives:**	
a	Should be high quality color corrected Plan achromatic objectives with following magnifications and numerical aperture, specially designed to be used without cover glass for the examination of sputum smear:	
b	Plan achromatic objective 10x/0.25, D=0 and working distance 4-8 mm.	
d	Plan achromatic objective 40x/0.65, D=0 and working distance 0.6mm or less with front lens spring loaded.	
e	Plan achromatic objective 100x/1.25 oil, D=0 and working distance 0.25mm or less with front lens spring loaded.	
f	All the objectives should be engraved with the markings as per international standard with the following details:	
g	Type of objective i.e. Plan achromatic with magnification, N.A and cover glass correction.	
h	Manufacturer name and part number of the objective.	
i	International color coded ring indicating the magnification.	
5	**Accessories, spares and consumables**	
5.1	**Accessories:**	

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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).	
5.3	Color filter set (Blue as per WHO prescription)	
5.4	Dust protection cover for the microscope.	
5.5	Special tools for maintenance.	
5.6	Immersion oil in bottle, at least 25ml.	
5.7	Pack of lens cleaning paper.	
5.8	Bottle of lens cleaning solution, at least 100ml.	
5.9	Safety transportation/storage box.	
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 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 or ISO 9022-1 AND	
7.2	CE (93/42 EEC Directives) and (USFDA or Japanese JIS) 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 and extra 1 year free AMC	
10	**Maintenance Service During Warranty Period**	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	**Installation and Commissioning**	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel.	
12	**Documentation**	
12.1	User (Operating) manual in English.	
12.2	List of important spare parts and accessories with their part numbers.	

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Table, Examination (Fixed Height)

S.N.	Purchaser's Specifications	Bidders Offer
	Table, Examination (Fixed Height)	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	Table for use of examining patients in healthcare facilities.	
2	**Operational Requirements**	
2.1	Fixed height examination table with upholstered top.	
3	**System Configuration**	
3.1	Examination table, fixed height with mattress.	
4	**Technical Specifications**	
4.1	The Bed shall be made of a solid steel sheet and plate construction with anti-corrosive and antirust treated epoxy powder coating with upholstered top.	
4.2	All 4 legs of the bed shall be capped with heavy duty rubber footings.	
4.3	Overall size of the table shall not be less than 1830 mm L x 600mm W x 800 mm H.	
4.4	Strong Mild steel tubular construction epoxy powder coated treated. The top base of machine pressed double bent Mild steel sheet epoxy powder coated treated finish.	
4.5	Frame work of CRC tube	
4.6	The mattress shall have mid-firmness, with at least 5cm foam top covered with rexine or better	
4.7	Maximum weight capacity of at least 150Kg.	
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	

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S.N.	Purchaser's Specifications	Bidders Offer
	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	Product must be CE or USFDA Compliance and must submit the related documents.	
8	**User Training**	
8.1	Not applicable.	
9	**Warranty**	
9.1	Comprehensive warranty for 1 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.	

Technical Specification of
Bed, Delivery (Manual)

S.N.	Purchaser's Specifications		Bidders Compliance Sheet		
	Bed, Delivery (Manual) with waterproof mattress and pillow		**Yes/No**	**Page No**	**Remarks**
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	Delivery bed is used for Baby Delivery and must incorporate ideal blend of the patient's comfort and the professional needs of the delivery team, focusing on the aesthetic and functional design of the entire product.				
2	**Operational Requirements**				
2.1	Manually operated delivery bed.				
3.	**System Configuration**				
3.1	Delivery Bed with complete attachments and accessories.				

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S.N.	Purchaser's Specifications	Bidders Compliance Sheet		
4	**Technical Specifications**			
4.1	It must have manual adjustments for height and back positions.			
4.2	It must have collapsible side rails.			
4.3	It must have three sectional mattress and seat section must have large perennial cut.			
4.4	Must have infusion rods, which have adjustable heights, quick release and attaches to all corners of bed.			
4.5	Must have adjustable leg rests.			
4.6	Must have push grip handles.			
4.7	Must have sliding stainless steel bowl at perennial part of table.			
4.8	It must have catheter bag holder, which can be attached, on either side of bed.			
4.9	It must be easy to maintain clean and sterilize (especially blood stains).			
4.10	Dimensions (approx.): • Length: 180cm • Width: 75cm • Load capacity: 150kg or more			
5	**Accessories, spares and consumables**			
5.1	• 1 x Waterproof Pillow • 2 x padded knee crutches with straps, adjustable height and width. • 1 x basin-tray or bowl. • 1x Stainless steel, telescopic IV pole. • 1 x set fitting mattresses (3 sections). • 1x Double Footstep			
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 must be designed to store and be operated normally under the condition of the			

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S.N.	Purchaser's Specifications	Bidders Compliance Sheet		
	purchaser's Country. The conditions include Climate, temperature and relative humidity.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO13485 or ISO 9001 for Medical Devices **AND**			
7.2	Product must be CE or USFDA Compliance and must submit the related documents.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 1 years.			
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	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 Specification of

Infant Radiant Warmer

S.N.	Purchaser's Specifications		Bidder's Compliance Sheet		
	Infant Radiant Warmer		**Yes/No**	**Page No**	**Remarks**
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	The infant warmer is designed to maintain the patient's core temperature at a stable 37 °C, ensuring thermoregulation and optimal thermal support for newborn.				
2	**Operational Requirements**				
2.2	The infant warmer shall be a microprocessor-controlled unit with both manual and servo temperature control modes, designed to maintain the neonate's core temperature.				
3	**System Configuration**				
3.1	Infant Warmer with Sensor, complete unit with all standard accessories.				
4	**Technical Specifications**				
4.1	It should have microprocessor-based servo and manual mode control of temperature.				
4.2	It should have user friendly control panel with large easy to read LCD/LED displays for real time patient skin temperature and set temperature separately and heater power.				

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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
4.3	The heating element must be ceramic or quartz infrared or calrod heater with minimum 500W or more having life of 5,000hrs or more.			
4.4	The overhead heater head should be designed in such a way that help user for easier access and enable taking X-rays. (±90 degrees left and Right swivel)			
4.5	It should have heater output indicator			
4.6	It should have LED lamp for observing the baby			
4.7	Temperature Display Range: 30°C - 40 °C or more.			
4.8	Heater control range: 1-100% with at least 20 levels.			
4.9	Skin sensor accuracy: ≤ ±0.3°C			
4.10	Audible and visual alarm functions for safety • Power failure • Temperature low /high • Temperature sensor failure • Head Rotation			
4.11	Temp. deviation alarm: ±1.0°C			
4.12	It should have an integrated Slide out X Ray tray below the X-Ray Transparent mattress, which can be pulled in and out without moving the infant.			
4.13	It should have Apgar timer of 1 min, 5 min and 10 min.			
4.14	It should have at least 1 drawer with the system.			
4.15	It should have IV pole and Monitor Tray, made by S.S.			
4.16	The infant radiant warmer stand should have 4 wheel of at least 2 wheel should be lockable.			

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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
4.17	It should have inclination facilities is for basinet having ±12° or more.			
4.18	The height of the warmer must be adjustable.			
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 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**			
7.3	Must submit ISO 13485 for Medical Devices			
7.4	The product model must me European CE marked and must submit related documents from notified body having notifying body number and must submit USFDA approved/cleared product certificate/documents.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			

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S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
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**			
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.			

Autoclave Electric

S.N.	Purchaser's Specifications		Bidders Compliance Sheet		
	Autoclave Electric		**Yes/No**	**Page No**	**Remarks**
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	**Description of Functions**				
1.1	Autoclave shall be able to work under high pressure and high temperature in order to sterilize wrapped instruments, unwrapped instruments, linen, glassware, plastic articles etc.				
2	**Operational Requirements**				

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S.N.	Purchaser's Specifications	Bidders Compliance Sheet		
2.1	Cooker type portable Autoclave with complete accessories			
3	**System Configurations**			
3.1	Pressure cooker type portable steriliser unit, 25 L or more 1 unit			
3.2	Different sizes dressing drums suitable to fit into the autoclave.			
4	**Technical Specifications**			
4.1	The pressure cooker type portable sterilizer shall be operated by mains electricity and shall be used with distilled water/normal water			
4.2	Operating temperature 121 ^{0}C – 134 ^{0}C pressure 15 to 30 PSI			
4.3	Lid have spring loaded safety valves- pressure relief(steam release) valves, safety valve, over pressure safety valve and dial type pressure gauge and must sealed the autoclave with joint less neoprene gasket.			
4.4	Unit to include fitted spacing shelf/trivet above heating element.			
4.5	Constructed of heavy duty spun aluminium(preferably stainless steel).			
4.6	Should be supplied with suitable 2 Sets of Surgical drum with autoclave.			
5	**Accessories, Spare Parts and Consumables**			
5.1	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**			
6.1	Power supply: 220 – 240V AC, 50Hz fitted with appropriate plug type D 3pins. The power cable must be at least 3 metres in length.			
7	**Standards & Safety Requirements**			
7.1	Must submit ISO 9001 or ISO 13485			

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S.N.	Purchaser's Specifications	Bidders Compliance Sheet		
7.2	Product must comply with CE or USFDA.			
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	The warranty period for this item shall be 12 months after acceptance of the Goods			
10	**Maintenance Service During Warranty Period**			
10.1	Preventive and corrective maintenance services during warranty period shall be included.			
11	**Installation and Commissioning**			
11.1	It shall be installed and commissioned by the Supplier at the final destination(s),			
12	**Documentation**			
12.1	It must be supplied with detailed operating and maintenance manuals and technical information in the English language.			

Technical Specification of Drum Sterilizing

S.N	Purchaser's Specifications		Bidders Offer
	Drum Sterilizing		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Cylindrical container used to sterilise dressing materials, surgical instruments and others reusable medical devices, in a steam sterilizer (autoclave), and to keep them as sterile products for medical activities.		
2	**Operational Requirements**		
2.1	Sterilizing drum, Small, Medium and Large with carrying handle.		

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S.N	Purchaser's Specifications	Bidders Offer
3	**System Configuration**	
3.1	Drum, sterilizing, Small, Medium and Large.	
4	**Technical Specifications**	
4.1	Drum must have an effective closing lid with a clip lock, a carrying handle, air vents system to allow steam to circulate freely during the sterilisation cycle.	
4.2	Vents to be manually closed after sterilisation.	
4.3	Air vent system (opening and closure mechanism) must be efficient and easy to operate.	
4.4	Lateral air vents system is preferable to top and bottom air vents.	
4.5	**Material:** Austenitic stainless steel, smooth surface. **Austenitic stainless steel composition:** approx. 8 to 10% nickel, 18 to 20% chromium. **External diameter:** approximately 150 to 165mm.(S) approx. 240 to 260 mm.(M) approx. 280 to 290mm (L) **Height:** approximately 100 to 120mm.(S) approx. 160 to 170 mm.(M) approx. 160 to 180 mm.(L) **Thickness:** approximately 0.6 to 0.7mm.	
5	**Accessories, spares and consumables**	
5.1	Not applicable.	
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.	
8	**User Training**	
8.1	Not applicable	
9	**Warranty**	
9.1	Warranty for 1 year.	
10	**Maintenance Service During Warranty Period**	
10.1	Standard warranty conditions are applicable.	

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S.N	Purchaser's Specifications	Bidders Offer
11	**Installation and Commissioning**	
11.1	Must supply preassembled unit, ready to use.	
12	**Documentation**	
12.1	Operating/ instructions manual shall be supplied in English.	

Technical Specification of
Wheel Chair (foldable)

S.N.	Purchaser's Specifications		Bidders Offer
	Wheel Chair (foldable)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Basic wheelchair for transportation of patients who are unable to stand/walk.		
2	**Operational Requirements**		
2.1	Basic foldable wheelchair for adult use.		
3	**System Configuration**		
3.1	Wheel Chair (foldable).		
4	**Technical Specifications**		
4.1	Heavy carriage mounted on 4 ball-bearing wheels.		
4.2	Front wheels free rolling, 360 degrees swivel.		
4.3	Wheels with braking and locking system with easily accessible lever		
4.4	Foot lever, integrated in frame, facilitates tilting the wheelchair.		
4.5	Two handles at the rear fit with plastic rims.		
4.6	Swing-away foot and arm supports for easy stepping on/off.		
4.7	Adjustable seat belt to avoid patient falling off		
4.8	**Materials:** • High resistance to corrosion (tropical environment). • Frame: Chrome-plated tubular steel. • Upholstery: Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable. • Tires: Heavy duty solid rubber.		
4.9	**Dimensions, Approx. ± 10%:**		

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S.N.	Purchaser's Specifications	Bidders Offer
	• Overall: 450 x 500 x 870mm (d x w x h). • Back support: 500 x 400mm (w x h). • Frame, diameter: 23mm. • Wheels, diameter: Front 200mm, Rear 600mm. • Carrying capacity: Approximately 150kg.	
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	Product must be CE or USFDA Compliance and must submit the related documents.	
8	**User Training**	
8.1	Not applicable.	
9	**Warranty**	
9.1	Comprehensive warranty for 1 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.	

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कञ्चनपुर नगरपालिका
नगर कार्यपालिकाको कार्यालय
गुलरिया, कञ्चनपुर
सुदूरपश्चिम प्रदेश, नेपाल

Technical Specification of
Stretcher, Patient with Side Rails

S.N.	Purchaser's Specifications		Bidders Offer
	Patient Stretcher with Side Rails		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Basic stretcher for transport of patients between departments in healthcare facilities.		
2	**Operational Requirements**		
2.1	Two-section stretcher designed specifically for patient transport.		
3	**System Configuration**		
3.1	Patient Stretcher with Side Rails complete unit.		
4	**Technical Specifications**		
4.1	Heavy carriage mounted on 4 swivel anti-static castors, of which two with brakes.		
4.2	Both sections fit with upholstery.		
4.3	Backrest adjustable via secured gear and pawl ratchet, safe for patient and operator.		
4.4	When fully extended, all sections align to perfectly horizontal surface.		
4.5	Base of stretcher fit with full length utility shelf.		
4.6	With removable folding side rails.		
4.7	Protective bumpers at all four corners.		
4.8	With removable IV pole.		
4.9	**Material:** • High resistance to corrosion (tropical environment). • Frame: Epoxy oven baked powder coated steel. • Upholstery: High-density polyurethane foam with density approx. 30 kg/m3. • Cover: Plastic, flexible highly tear resistant, anti-static, flame retardant, disinfectant- and liquid proof, washable.		
4.10	**Dimensions, Approx. ± 10%:** • Stretcher: 1800 x 560 x 800mm (l x w x h) • Frame, diameter: 30mm		

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S.N.	Purchaser's Specifications	Bidders Offer
	• Swivel castors, diameter: 125mm • Upholstery: 50mm (h) • Carrying capacity: 150kg	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** • 1 x utility shelf. • 1 x set of side rails • 1 x set of SS IV pole	
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 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	Product must be CE or USFDA Compliance and must submit the related documents.	
8	**User Training**	
8.1	Not applicable.	
9	**Warranty**	
9.1	Comprehensive warranty for 1 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.	

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Technical Specification of
Patient Transfer Trolley

Purchasers Requirement		Bidder's Offer
S.N.	Patient Transfer Trolley	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	**Description of Function**	
1.1	It is used for transporting patient in between wards, OTs, procedure room, etc. and also can be used as a recovery trolley.	
2	**Operational Requirements**	
2.1	Hydraulic Patient Transfer trolley with mattress.	
3	**Technical Specifications**	
3.1	Should be made up of mild steel tubular framework that is pretreated and epoxy powder coated.	
3.2	Should have x-ray permeable two section top.	
3.3	It should have hydraulic height adjustment system.	
3.4	It should have Trendelenburg and reverse Trendelenburg facility through gas spring mechanism.	
3.5	Should have approx. 125mm diameter non-rusting 4 castor wheels with brakes in at least 2 wheels.	
3.6	Should have SS made safety railings.	
3.7	Should be noise free during transportation.	
3.8	Should be provided with corner buffers.	
3.9	Dimension: • Length: approx. 2000 mm • Width: approx. 700 mm • Height: adjustable between approx. 650 – 950 mm	
4	**Accessories, spares and consumables**	
4.1	Should be supplied with following accessories: • Mattress – 1 Nos. • SS IV stand – 1 Nos.	
5	**Operating Environment**	
5.1	The product offered shall be designed to be stored and to	

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	operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6	**Standards and Safety Requirements**	
6.1	Must submit ISO 9001 or ISO 13485.	
6.2	Product must be CE or USFDA Compliance and must submit the related documents.	
7	**User Training**	
7.1	N/A	
8	**Warranty**	
8.1	Comprehensive warranty for 1 years.	
9	**Maintenance Service During Warranty Period**	
9.1	Standard warranty conditions are applicable.	
10	**Installation and Commissioning**	
10.1	Must supply complete pack ready to use.	
11	**Documentation**	
11.1	User (Operating) manual in English.	

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