Government of Nepal
Ministry of Health & Population
Department of Health Services
Management Division (MD)
Teku, Kathmandu, Nepal

BIDDING DOCUMENT

For

Procurement of ICU Equipment & others

Issued on:
Bid Document issued to:

DIRECTOR

नेपाल सरकार
स्वास्थ्य तथा जनसंख्या मन्त्रालय

स्वास्थ्य सेवा विभाग
व्यवस्थापन महाशाखा टेकु, काठमाण्डौ

ICU Ward स्थापनाको लागि आवश्यक औजार, उपकरण लागायतका सामाग्री खरिद गर्न प्रस्ताव आव्हानको सुचना

सुचना प्रकासित मिति : २०७६/१२/०९

COVID-19 व्यवस्थापनको लागि ICU Ward स्थापना तथा सञ्चालनको लागि आवश्यक औजार, उपकरण लगायत वन्दोवस्तीको सामान तथा अन्य किट्सहरु तत्काल व्यवस्थापन गर्न बिशेष परिस्थितिमा आकस्मिक रुपमा तुरुन्त खरिद गर्नुपरेको हुदाँ लिखित दररेट सहितको प्रस्ताव आह्वान गरिएको छ । खरिद गरिने समाग्रीको विवरण, गुणस्तर तथा स्पेशिफिकेसन, पालना गर्नुपर्ने सर्तहरु उल्लेख भएको वोलपत्र कागजात www.dohslmd.gov.np वेबसाईटबाट डाउनलोड गर्न वा यस महाशाखाबाट निशुल्क प्राप्त गर्न सकिने छ । इच्छुक फर्म, कम्पनी, आपुर्तिकर्ताहरुले यस महाशाखाबाट जारी भएको वोलपत्र कागजातमा उल्लेख भए बमोजिमको विवरण भरि आधिकारिक सहि, छाप सहित मिति २०७६/१२/१४ दिनको १२:०० बजे भित्र स्वास्थ्य सेवा विभाग, व्यवस्थापन महाशाखामा सिलबन्दी रुपमा दाखिला गर्नहुन अनुरोध छ । दर्ता हुन आएका सिलबन्दी प्रस्तावहरु मिति २०७६/१२/१४ दिनको १:०० बजे स्वास्थ्य सेवा विभाग व्यवस्थापन महाशाखामा खोलिनेछ । थप जानकारीको लागि यस महाशाखामा सम्पर्क गर्न हुन यो सूचना प्रकाशन गरिएको छ ।

निर्देशक
व्यवस्थापन महाशाखा, स्वास्थ्य सेवा विभाग, टेक
फोन नं. ०१-४२६१७६८

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Section I. Invitation for Direct Purchase (IDP)

Name of Supplier/Bidder :

Address of the Supplier:

1. Department of Health Services, Management Divison invites Priced Quotations for the supply and delivery of **Equipement and others for ICU Ward** as detailed in attached Specifications and the Schedule of Requirements provided herein.
2. The Price Quotation submitted by the Bidder shall comprise the following:
    a. Quotation and Price Schedules
    b. Schedule of Requirements
    c. Technical Specifications
3. The bidder may submit the quote for single or more items as mentioned in price Schedule.
4. Priced Quotations must be submitted to the office of ***Department of Health Services, Management Division*** on or before 12: 00 Hour **14 Chaitra 2076**.
5. The Bidder shall indicate on the Price Schedule the unit prices (where applicable) and total price of the goods to be supplied under the contract. All duties, taxes and other levies payable by the Supplier/Bidder under the contract shall be included in the rates, prices and total Bid Price submitted by the Bidder.
6. Price quoted by the Bidder shall remain fixed and valid until completion of the Contract Performance and will not be subject to variation in any account.
7. Submitted Priced Quotations must remain valid for a period of ***45 days*** after the deadline for submission date.
8. The Bidder shall furnish, as part of its bid, documents establishing the Supplier's/ Bidder's eligibility to bid and qualification to perform the contract if the bid is accepted. Documents to establish such eligibility shall be but not limited to the following:
    a) Up to date Firm/Company Registration Certificate
    b) VAT/ PAN Registration Certificates
    c) Tax Clearance Certificate of FY 2075-76
    d) Power of Attorney
    e) Product Catalogue
9. The goods supplied under this contract shall confirm to the Schedule of Requirements and the standards mentioned in the Technical Specification. The price quotation will be opened on **14 Chaitra 2076, 13:00 Hour** at **Management Division, Department of Health Services**
10. If the last date of purchasing, submission and opening falls on a government holiday then the next working day shall be considered the last day.
11. The Purchaser reserves the right to accept or reject the Sealed Quotations without assigning any reason, whatsoever.

Yours sincerely,

Director
Management Division
Department of Health Services,Teku, Pachali, Kathmandu.
Telephone: +977 1 4261136, 4261768, Telefax: +977 1 4261413

Section II. Conditions of Contract

1. Definitions

1.1 In this contract, the following terms shall be interpreted as indicated:

a. "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form Signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;

b. "The Contract Price" means the price payable to the Supplier under the contract for the full and proper performance of its contractual obligation;

c. "The Goods" means Equipment and related Accessories and spare-parts or any other materials which the Supplier is required to supply to the Purchaser under the contract;

d. "Services" means services ancillary to the supply of the goods such as transportation and insurance including the installation, commissioning and the operational and maintenance training of the supplied equipment.

e. "The Purchaser" means the procuring entity purchasing the goods;

f. "The Supplier" means the organization supplying the goods and services under this contract.

2. Technical Specification

2.1 The goods supplied under this contract shall confirm to the standards mentioned in the Technical Specification.

3. Patent Right

3.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of goods or any part thereof in the Purchaser's country.

4. Inspection and Tests

4.1 The Purchaser or its Representative shall have the right to inspect and/or test the goods to confirm their conformity to the Technical Specification and the quality of performance after the supply and delivery of good to the Purchaser's premises.

5. Packing

5.1 The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transmit to their final destination as indicated in the contract.

5.2 The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage.

5.3 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided in accordance with international standard and practice.

6. Delivery of Goods

6.1 Delivery of the goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in its Schedule of Requirements.

7. Warranty

7.1 The Supplier warrants that all the goods supplied under the contract shall fully comply with the specification laid down in the contract.

7.2 The warranty shall remain valid for one year after the goods have

been delivered to the final destination indicated in the contract, and accepted by the Purchaser after installation and commissioning of equipment by the Supplier.

7.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

7.4 Upon receipt of such notice, the Supplier shall, with all reasonable speed, replace the defective goods without cost to the Purchaser. The Supplier will be entitled to remove, at its own risk and cost, the defective goods.

8. Payment

8.1 Payment of the goods supplied shall be made in Nepali Rupees after the delivery and installation and commissioning of goods to the satisfaction of the Purchaser.

8.2 Payment shall be made within fifteen (15) days of receipt of the goods and upon submission of claim supported by the acceptance certificate issued by the Purchaser. .

9. Prices

9.1 Prices charged by the Supplier for goods delivered under the contract shall not vary from the prices quoted by the Supplier in its price quotation.

10. Insurance

The Purchaser will be responsible for taking out any appropriate insurance coverage.

11. Governing Language

11.1 The Governing Language shall be: Nepali or English

12. Applicable Law

12.1 The applicable law shall be Laws of Nepal.

13. Notices

13.1 Purchaser's address for notice purposes: **Management Division**
Department of Health Services,Teku, Pachali, Kathmandu.
Telephone: +977 1 4261136, 4261768,
Telefax: +977 1 4261413

13.2 Supplier's address for notice purposes: ……

14. Taxes and Duties

14.1 The Supplier shall be entirely responsible for all taxes, duties, licence fees and other such levies imposed by the GoN.

15. Operation, Maintenance and Spare-parts Manuals

15.1 The successful Supplier shall supply 2 copies of manufacturer's operation, maintenance and spare-part manuals of the goods (Equipment).

16.Conduct of Suppliers

16.1 The Supplier shall be responsible to fulfil his obligations as per the requirement of the Contract Agreement, Bidding documents, GoN's Procurement Act and Regulations.

16.2 The Supplier shall not carry out or cause to carryout the following acts with an intention to influence the implementation of the procurement process or the procurement agreement :

a. give or propose improper inducement directly or indirectly,
b. distortion or misrepresentation of facts
c. engaging or being involved in corrupt or fraudulent practice
d. interference in participation of other prospective bidders.
e. coercion or threatening directly or indirectly to impair or harm,

any party or the property of the party involved in the procurement proceedings,

f. collusive practice among bidders before or after submission of bids for distribution of works among bidders or fixing artificial/uncompetitive bid price with an intention to deprive the Purchaser the benefit of open competitive bid price..

g. contacting the Purchaser with an intention to influence the Purchaser with regards to the bid or interference of any kind in examination and evaluation of the bids during the period after opening of bids up to the notification of award of contract

17.Blacklisting Supplier

17.1 The GoN, Public Procurement and Monitoring Office(PPMO) may blacklist a Supplier for his conduct up to three years on the following grounds and seriousness of the act committed by the supplier:

a. if it is proved that the supplier committed acts pursuant to the Sub - clause 16.2,

b. if it is proved later that the supplier had committed substantial defect in implementation of the contract or had not substantially fulfilled his obligations under the contract or the completed work is not of the specified quality as per the contract ,

c. if convicted by a court of law in a criminal offence which disqualifies the supplier from participating in the contract.

17.2 A Supplier declared blacklisted and ineligible by the GON shall be ineligible to bid for a contract during the period of time determined by PPMO.

18. Dispute Resolution

18.1 Any dispute arising out of the Contract, which cannot be amicably settled between the parties, shall be referred to adjudication.

Section III.Schedule of Requirements

S.N.	Description	Quantity	Place of Delivery	Delivery schedule	bidder's offer
1	Intensive Care Bed	20	Teku Kathmandu	As soon as possible	
2	Infusion Pump	20		,, ,, ,,	
3	Syringe Pump	20		,, ,, ,,	
4	IV Stand	40		,, ,, ,,	
5	Monitor with intra-arterial BP monitoring (IBP) and Central Monitor system	20 +1		,, ,, ,,	
6	Fixed Ventilator	8		,, ,, ,,	
7	Portable ventilator	2		,, ,, ,,	
8	Defibrillator	1		,, ,, ,,	
9	Portable x-ray	1		,, ,, ,,	
10	Air mattress	20		,, ,, ,,	
11	Patient Trolley	2		,, ,, ,,	
12	Wheel chair	4		,, ,, ,,	
13	Bi pap machine	2		,, ,, ,,	
14	Nebulizer	8		,, ,, ,,	
15	Suction Machine	8		,, ,, ,,	
16	X ray view box	4		,, ,, ,,	
17	ECG machine	1		,, ,, ,,	
18	Bain circuit	4		,, ,, ,,	
19	T piece	8		,, ,, ,,	

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20	Laryngoscope Set	2		” ” ”	
21	Tracheostomy tube Different size	1		” ” ”	
22	Portable USG	1		” ” ”	
23	ET tube different size with subglottic suction plug Port	30		” ” ”	
24	Pulse oximeter	3		” ” ”	
25	Stethoscope	20		” ” ”	
26	BP apparatus	4		” ” ”	
27	Electric needle destroyer	2		” ” ”	
28	Autoclave 80 Ltr.	1		” ” ”	
29	Electronic weighing machine	1		” ” ”	
30	AMBU bag with reservoir bag	4		” ” ”	
31	hemodialysis unit	1		” ” ”	
32	ABG Machine	1		” ” ”	
33	Resuscitation cart	2		” ” ”	
34	Closed Suction catheter	30		” ” ”	
35	Glucometer With Strips	2		” ” ”	
36	Noninvasive Ventilator Mask	12		” ” ”	
37	oropharyngeal airway Different Sizes	30		” ” ”	
38	nasopharyngeal airway	10		” ” ”	
39	Venturi Mask (Different) Fio2	20		” ” ”	

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40	Ventilating Face Mask (Anesthetic Mask) Different Size	10		” ” ”	
41	Refrigerator 185 Ltr	2		” ” ”	
42	Blood warmer / Fluid Warmer	5		” ” ”	
43	Physiotherapy Chest Vibrator	2		” ” ”	
44	Intermittent Pneumatic Compression Device	2		” ” ”	
45	Forced Air Warmer Device (patient warmer device)	3		” ” ”	
46	Bedside Locker	20		” ” ”	
47	Mayo Table	20		” ” ”	
48	infrared thermometer (Non Touch)	5		” ” ”	
49	Gum elastic Bongie	2		” ” ”	
50	Intubatins Stylets	5		” ” ”	

The Schedule of Requirements shall be fixed at time of Contract Signing

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Section IV. Technical Specifications

Bidders must enter their offered specifications against each parameter of this Technical Specifications Form (TSF), comment as necessary, and sign and stamp each page.

The right hand blank side must be completed by the bidder with the technical specifications of the offered product with supplementary documents enclosed.

Item no 1. Intensive Care Bed

S.N.	Purchaser's Specifications		Bidder's Offer	Deviation If Any	Page no in catalog/ Data sheet
	Motorised ICU beds				
	Manufacturer				
	Brand				
	Type/Model				
	Country of Origin				
1	**Description of Function**				
1.1	Motorised ICU bed is a bed specially designed for hospitalized patients in ICU,CCU or recovery unit who are in need of patient ease. These beds have special features both for the comfort and well being of the patient and for the convenience ofhospital staff.				
2	**Operational Requirements**				
2.1	It shall have anti-corrosive and antirust treated baked hard epoxy powder coating, four sections Monitorised ICU bed.				
3	**System Configuration**				
3.1	Monitorised ICU bed, four sections with mattress.				
4	**Technical Specifications**				
4.1	Dimensions approx.:2220Lx995Wx450H-820H mm (without mattress).				
4.2	Bed frame shall be mainly made from approx. 50mm x 25mm x 2mm thick ERW tubes with proper support. This frame should be fitted on the base frame mainly made of approx. 60X30X1.6mm ERW tube on various supporting links.				
4.3	The base frame shall be mounted on 150 mm dis non-rusting twin wheel castor with Central locking mechanism.				
4.4	Four sections Polypropylene detachable top fitted on four section top bed frame with perforated design for easy breathing of mattress.				
4.5	Back rest and leg rest both shall have detachable mattress guards. (3 nos on each section respectively)				
4.6	Back rest knee rest and height adjustment approx. (450mm - 770mm) position operated by electromechanical adjustment through handset, and additional nurses' control handset , for operating and locking of above function and shall have trendelenburg/reverse trendelenburg positions.				
4.7	Simultaneous electromechanical adjustment of back rest and knee rest on both hand set and the additional nurse's hand set.				
4.8	One touch key for flattening of the bed at the lowest height for CPR on nurses' hand set.				
4.9	Battery backup with inbuilt battery charger shall be provided.				
4.10	The hand set and nurses' hand set shall have indications for power on and the battery charge.				
4.11	Manual pull lever on both side of bed to quickly bring bed to a flat position.				
4.12	Bed shall have split type swing down railing, two on each side (Head and middle section) made from polymer moulded material.				
4.13	Railings shall avoid any finger and neck entrapments.				

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation If Any	Page no in catalog/ Data sheet
4.14	Detachable head/foot board.			
4.15	Bed frame must be sturdy and stable to support weight of at least 250 kg.			
4.16	High quality stainless steel outer covering tube with a knob to mount Syringe pump.			
4.17	There must be suitable buffer mechanism to avoid heating of the bed to the wall.			
4.18	It must have provision of fixing suitable rod for hanging intravenous/irrigation fluid bottle on both sides at head end and foot end.			
4.19	It must have hook on bed frame on both sides for holding urine/ drainage bag (at least 4 nos.)			
4.20	Shall provide with one dual hook 304-grade stainless steel telescopic IV rod.			
4.21	**Mattress:** Shall provide with one four section mattress of dimensions approx. 85X195 cm with washable cover of good quality. The mattress must be made of high density PU foam of 12cm thickness.			
5	**Electrical specification**			
5.1	Nominal 230V AC			
5.2	Switch mode power supply operating range 90V-300V; 47/63Hz; Max 2A.			
5.3	Should comply with international standards for electric shock protection and liquid ingress protection.			
6	**System Configuration Accessories, spares and consumables**			
6.1	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.			
6.2	At least 12mm diameter stainless steel SS304 telescopic heavy duty IV rod with two hooks with provision to park when not in use.			
6.3	Urine bag holder - one			
6.4	File holder - one			
7	**Operating Environment**			
7.1	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.			
8	**Standards and Safety Requirements**			
8.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 **AND**			
8.2	CE or USFDA approved product certificate.			
9	**User Training**			
9.1	User and maintenance training should be provided to the hospital personnel at the time of installation and any time as per requirement for 5 years.			
10	**Warranty**			
10.1	Warranty for 2 years after acceptance.			
11	**Maintenance Service During Warranty Period**			
11.1	Standard warranty conditions are applicable.			
12	**Installation and Commissioning**			
12.1	Must supply preassembled unit, ready to use.			
13	**Documentation**			
13.1	Users/Instructions manual shall be provided in English.			

2. Infusion Pump				
S.N	**Technical Specification**	**Bidder's Offer (Yes/No)**	**Deviation (if any)**	**page no. of data sheet/ catalogue in support of specification**
	INFUSION PUMP			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**DESCRIPTION OF FUNCTION**			
1.1	It provides accurate and continuous flow rate for precise delivery of IV medication in critical medical care			
2	**OPERATIONAL REQUIREMENTS**			
	The infusion pump must be user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	**SYSTEM CONFIGURATION**			
	Infusion pump with battery backup alarm and with complete accessories.			
4	**TECHNICAL SPECIFICATIONS**			
4.1	shall be operated on peristaltic pump method			
4.2	shall be compatible with most of the IV set locally available			
4.3	shall have a LED/LCD display with backlight with atleast size 3 inch or above			
4.4	shall have accuracy of set delivery rate of +/- 5%			
4.5	shall have delivery rate of 0.1 to 1200 ml with increment step of 0.1 ml/h for 0.10 - 100 ml/h for 100 - 1200 ml/hr			
4.6	shall have keep vein open (KVO) facility			
4.7	shall have facility of audible and visual alarm for lower occlusion, upstream occlusion alarm, air in-line alarm, door open, infusion complete, low battery, drip sensor error, infusion line out			
4.8	shall have rechargeable battery having at least 5 hours backup when used at the 5 ml/hr rate			
4.9	shall have free flow protection			
4.1	shall have adjustable pressure occlusion alarm allowing the pumps to be set to the specific therapeutic application			
4.11	shall have pre alarms: solution nearly empty, infusion nearly complete, battery nearly empty at least 30 mins prior shut down			
4.12	shall have facility to give bolus at rate 300			

	ml/hr			
4.13	shall have facility for hands free bolus setting			
4.14	shall display drug volume to be infused, drug infused and drug amount remaining to be infused			
4.15	shall have post occlusion bolus reduction safety feature to help reduce the possibility of over infusion of drugs			
4.16	shall have drug library for upto 1000 drugs			
4.17	shall have facility for every data event log			
5	**ACCESSORIES**			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubricating materials, to be included in the offer. Bidders shall specify the quantity of every item included in their offer. (including items not listed 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 Poer supply, climate, temperature and humidity			
6.2	Power Supply: 220 - 220 VAC, 50 Hz fitted with appropriate 3 pin plug (Flat). The power cable must be at least 3m long			
7	**STANDARDS AND SAFETY REQUIREMENTS**			
7.1	Must submit ISO 13485:2003/AC:2007 for Medical Devices AND			
7.2	CE (93/42 EEC Directives) and/or USFDA approved product certificates			
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirements for Electrical safety of Medical Equipment			
8	**USER TRAINING**			
	shall provide user training (including application: how to use and maintain the equipment) to concerned user until complete familiarity with the system			
	shall provide service training (installation, assembling, disassembling, troubleshooting) to Bio maintenance staff by certified company engineer of manufacturer and provide certificate of service training completion from manufacturer			
9	**WARRANTY**			
	Comprehensive warranty for 1 years on the system			

	The warranty starts from the day of complete satisfactory of installation of equipment			
10	**MAINTENANCE SERVICE DURING WARRANTY PERIOD**			
	During warranty period suppliers must ensure corrective/breakdown maintenance whenever required			
11	**GUARANTEE**			
	The bidder must ensure the service and complete spare parts support for 10 years of the system, including accessories			
12	**INSTALLATION, INSPECTION AND COMMISSIONING**			
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any pre requisites for installation to be communicated to the purchaser in advance, in detail			
	Inspections to verify the compliance of the offered equipment as per specifications will be conducted by the technical team appointed by the Hospital, failure to demonstrate listed specification shall result in rejection of the equipment			
13	**DOCUMENTATION**			
	User / Operating manual in English in printed form. (Mandatory)			
	Service (Technical / Maintenance) manual in English in printed form. (Mandatory)			
	Certificate of calibration and inspection from factory			
	complete list of spare parts, accessories and consumables along with cost and part number s to be used with the system should be provided			
	Company shall mandatorily (compulsorily) provide authorization letter from parent company proving that they have been legally authorized for dealership (sales/service) of that particular equipment in Nepal			
	Bidder's should mention model number and provide availability chart or Yes / No chart with original catalogue having specification as provided by the manufacturing company. Photocopy, scan copy or self made specification will not be accepted			

3. SYRINGE PUMP				
S.N	**Technical Specification**	**Bidder's Offer(Yes/No)**	**Deviation (if any)**	**Page no. of data sheet/ catalogue**
	SYRINGE PUMP			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	**DESCRIPTION OF FUNCTION**			
1.1	The syringe pump provided uniform flow of fluid by precisely driving the plunger of a syringe down its barrel			
2	**OPERATIONAL REQUIREMENTS**			
2.1	The syringe pump must be programmable, user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	**SYSTEM CONFIGURATION**			
3.1	Syringe pump with battery backup alarm and with complete accessories.			
4	**TECHNICAL SPECIFICATIONS**			
4.1	shall have programmable flow rate from 0.1 to 1200 ml/hr in increments of 0.10 ml/hr with infused volume displayed			
4.2	shall be compatible with commonly used syringe sizes of different manufacturers: 5ml, 10ml, 20ml, 30ml, 50/60ml			
4.3	shall have automatic detection of syringe size and proper fixing. Shall provide alarm for wrong loading of syringe			
4.4	shall have a LED/LCD display with backlight minimum size 3 inch or above			
4.5	shall have accuracy of set delivery rate of +/- 2%			
4.6	must have visual and audible alarms for occlusion, low battery, empty container, infusion completion, disconnection, syringe disengaged, slider disengaged, wrong size syringe			
4.7	shall have facility to give bolus. Both hands free bolus and fix bolus as per need			
4.8	should have auto self test feature			
4.9	shall have rechargeable battery having at least 8 hours backup when used at the 5 ml/hr rate			
4.10	shall have automatic calculation of dose			
4.11	shall have post occlusion bolus reduction safety feature to help reduce the possibility of over infusion of drugs			
4.12	shall have free flow prevention mechanism			
4.13	shall have rate mode, volume target mode, body weight mode			
4.14	shall have drug library for up to 1000 drugs with facility to set drug dose for individual drug helping to prevent wrong drug dose			

3. SYRINGE PUMP				
S.N	**Technical Specification**	**Bidder's Offer(Yes/No)**	**Deviation (if any)**	**Page no. of data sheet/ catalogue**
4.15	shall display drug volume to be infused, drug infused and drug amount remaining to be infused			
4.16	shall have feature for occlusion pressure monitoring and user adjustable 3 level occlusion pressure setting			
4.17	shall have IP 24 protection			
4.18	shall have dose rate calculation in: ml/h, ug/kg/min, ug/min, ug/kg/hr, ug/hr, ug/kg/day, ug/day, mg/kg/min, mg/min, mg/kg/h, mg/h, mg/kg/day, mg/day, g/kg/min, g/min, g/kg/h, g/h, g/kg/day, g/day			
4.19	shall have data event log feature			
5	**ACCESSORIES**			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubricating materials, to be included in the offer. Bidders shall specify the quantity of every item included in their offer. (including items not listed 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 Power supply, climate, temperature and humidity			
6.2	Power Supply: 220 - 220 VAC, 50 Hz fitted with appropriate 3 pin plug (Flat). The power cable must be at least 3m long			
7	**STANDARDS AND SAFETY REQUIREMENTS**			
7.1	Must submit ISO 13485:2003/AC:2007 for Medical Devices AND			
7.2	CE (93/42 EEC Directives) and/or USFDA approved product certificates			
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirements for Electrical safety of Medical Equipment			
8	**USER TRAINING**			
8.1	shall provide user training (including application: how to use and maintain the equipment) to concerned user until complete familiarity with the system			
8.2	shall provide service training (installation, assembling, disassembling, troubleshooting) to Bio maintenance staff by certified company engineer of manufacturer and provide certificate of service training completion from manufacturer			
9	**WARRANTY**			
9.1	Comprehensive warranty for 1 years on the system			

3. SYRINGE PUMP				
S.N	**Technical Specification**	**Bidder's Offer(Yes/No)**	**Deviation (if any)**	**Page no. of data sheet/ catalogue**
9.2	The warranty starts from the day of complete satisfactory of installation of equipment			
10	**MAINTENANCE SERVICE DURING WARRANTY PERIOD**			
10.1	During warranty period suppliers must ensure corrective/breakdown maintenance whenever required			
11	**GUARANTEE**			
11.1	The bidder must ensure the service and complete spare parts support for 10 years of the system, including accessories			
12	**MAINTENANCE CONTRACT PROPOSAL**			
12.1	A written document for AMC (Annual Maintenance Contract) and CMC (Comprehensive Maintenance Contract) to be submitted separately			
13	**INSTALLATION, INSPECTION AND COMMISSIONING**			
13.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any pre requisites for installation to be communicated to the purchaser in advance, in detail			
	Inspections to verify the compliance of the offered equipment as per specifications will be conducted by the technical team appointed by the Hospital, failure to demonstrate listed specification shall result in rejection of the equipment			
14	**DOCUMENTATION**			
	User / Operating manual in English in printed form. (Mandatory)			
	Service (Technical / Maintenance) manual in English in printed form. (Mandatory)			
	Certificate of calibration and inspection from factory			
	Please provide a complete list of spare parts, accessories and consumables along with cost and part number s to be used with the system			
	Company shall mandatorily (compulsorily) provide authorization letter from parent company proving that they have been legally authorized for dealership (sales/service) of that particular equipment in Nepal			
	Bidder's should mention model number and provide availability chart or Yes / No chart with original catalogue having specification as provided by the manufacturing company. Photocopy, scan copy or self made specification will not be accepted			

4. IV Stand, Four Hooks

S.N.	Purchaser's Specifications	Bidder's Offer
	IV Stand, Four Hooks	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	This IV/saline stand is used for hanging various intravenous items such as blood bag, glucose bottle etc.	
2	**Operational Requirements**	
2.1	Mobile IV stand on castors with adjustable height.	
3	**System Configuration**	
3.1	Adjustable IV/saline stand with four hooks and swivels castors.	
4	**Technical Specifications**	
4.1	**Materials:** • Base, supports column and hook: 304 grade fully stainless steel. • Wheel insert: aluminium • Wheel: rubber wheels for smooth drive	
4.2	Base: Heavy base on antistatic swivel castors of approx. diameter Ø50mm.	
4.3	Support column: solid mechanism to which the upper pole is fixed; the pole has an adjustable height	
4.4	Hook: Stainless steel 4 hooks welded together on the top of the serum rod.	
4.5	Load capacity:approx.12kg (3kg per hook)	
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**	
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.	
11	**Installation and Commissioning**	
11.1	Must supply preassembled unit, ready to use.	
12	**Documentation**	
12.1	User /instructions manual in English.	

5. Patient Monitor					
S. N.	**Purchaser's Specifications**		**Biddder's Offer**	**Deviation if Any**	**Page no in catalog**
	Patient Monitor				
	Manufacturer				
	Brand				
	Type /Model				
	Country Of Origin				
1	**Description Of Function**				
1.1	It should be Suitable for Usage in Emergency, Operation Room and ICU Capable of monitoring ECG,SPO2,Non Invasive Blood Pressure(NIBP) , Dual Invasive Blood Pressure(2IBP), ETCO2, 2*Respiration and 2*Temperature				
2	**Operational Requirement**				
2.1	It shall operate on AC power supply as well as built-in-battery.				
3	**System Configurations**				
3.1	Multi parameter monitor with complete accessories and one unit of Central Monitor				
4	**Technical Specification**				
4.1	Should have at least 12.1" TFT Color LCD Screen with Multi language selectable				
4.2	Should finish all operation by keys and knobs				
4.3	Should be applicable for all type of patient with different age groups				
4.4	Should have synchronized display of 7 wave forms				
4.5	Monitoring contents, scan speed , volume and output content could be set optionally				
4.6	Waveform and parameters color could be set optionally				
4.7	Alarm items: Technical alarm, physiological alarm and arrhythmia alarms				
4.8	Should have digital SPO2 Technology, which consists of strong anti interference and anti weak filling capacity				
4.9	Trend review for at least 24-hour ECG Wave form				
4.10	Drug Concentration could be calculated				
4.11	Should have facilities of central monitoring station , other bed observation and software update				
4.12	Data storage and transfer by USB interface				
4.13	Should have barcode scanner facility				
4.14	Should have built-In Rechargeable battery for uninterrupted monitoring				
4.15	ECG, SPO2, RESP, BP and TEMP data could be printed by one key				
4.16	Should have anti-high frequency surgical unit,				

5. Patient Monitor				
S. N.	**Purchaser's Specifications**	**Biddder's Offer**	**Deviation if Any**	**Page no in catalog**
	defibrillation proof			
4.17	Should have dust cover, accessory bag			
4.18	EtCO2 (Side stream type with basic accessories)			
4.18 ECG:				
	Should be able to monitor ECG through 5-Lead Patient Cable			
	Should be able to display Lead I, II, III, aVR, aVL, aVF and V			
	Shouldbesensitivity 2.5mm/mV (×1/4), 5mm/mV (×1/2), 10mm/mV (×1), 20 mm/mV(×2), 40mm/mV (×4) and AUTO selection			
	Should be 3.125mm/s, 6.25mm/s, 12.5mm/s, 25mm/s and 50mm/s sweep speed seletion			
	Should be able to monitor Heart Rate from 15-300 bpm			
	Should have an interface for displaying al lthe ECG Leads Monitored			
	Should have user selectable modes.			
	Should have pacemaker detection facility			
	Should have arrhythmia detection			
	Should have ST Segment monitoring facility			
4.19 SPO2				
	Should use Digital technologyfor monitor SpO2			
	Should display the numeric value and plethysmograph as well			
	Should display the value from 0-100%			
	Should have pulse modulation volume facility			
4.20 NiBp:				
	Should follow the automatic oscillometric method for measurement of Nibp			
	Should have cuffs for adult, pediatric and neonatal patients			
	Should have a measuring range of 0-270 mmHg			
	Should have manual, auto and continuous mode of operation			
4.21 Respiration:				
	Should follow the R-F(RA-LL) Impedance method for measurement of Respiration			
	Should be three leads and nasal canal available when in impedance mode			
	Should display numeric values and respiration wave form as well			
	Should have apnea detection facility			
4.22 Temperature:				
	Should be able to monitor dual temperature values			
	Should also display the difference between these values			

5. Patient Monitor				
S. N.	**Purchaser's Specifications**	**Biddder's Offer**	**Deviation if Any**	**Page no in catalog**
4.23 2IBP				
	Should have two channels			
	Presurelabes: ART, CVP, RVP, LAP, RAP, PAP, ICP and LVP			
	Should be able to measure from -60 to 500mmHg			
	Measurement precision should be ±0.133 kPa (1 mmHg) or ±2 %, whichever is greater			
4.24 ETCO2				
4.24	Measurement technique:Infrared absorption technique			
4.25	Should display EtCO2, FiCO2, RR			
4.26	Should have alarm settings for all parameters			
4.27	Should have audio and visual alarms			
4.28	Should be portable and handle should be provided			
4.29	**Should have the following data storage interfaces:** • Should have a maximum of 360 Hours of Trend Datastorage			
5	**Accessories ,consumables, & spare parts**			
5.1	Should be supplied with standard accessories. •3 lead ecg electrode cable, •Paediatric and neonate Spo2 probe •Paediatric and neonate NIBP Cuff •Temperature probe: Skin and Rectal •IBP transducer 1, EtCO2 probe 1			
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 work in 220V power supply			
7	**Standards & Safety Requirements**			
7.1	Must submit ISO 13485:2016/NS-EN ISO 13485:2016 **AND**			
7.2	Must submit CE and USFDA(510K) approved product certificate			
7.3	The unit to meet the Collateral Standards of Electomagetic compatibility IEC/EN 60601-1			
7.4	As a medical electrical equipment to subject in regard to the electromagenetic compatibility(EMC)			
8	**User Training**			
8.1	Must provide user training.			
9	**Warranty**			

5. Patient Monitor				
S. N.	**Purchaser's Specifications**	**Biddder's Offer**	**Deviation if Any**	**Page no in catalog**
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) 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	Service and User (Operating) manual in English.			
12.2	Bidder's must submit original catalog			

6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	Manufacturer:			
	Brand :			
	Model:			
	Country of origin:			
1	**Description of Function**			
	○ The ventilator should be suitable for use in Adult and Pediatric patients in all critical care areas with selection between adult and pediatric modes or patient hoses ○ The ventilator should have both invasive and non-invasive ventilation modes. Non-invasive ventilation should be possible in all modes from control to spontaneous.			
System Configuration				
2	**Air Source - Integrated internal air source (Turbine Based).**			
	○ For delivering continuous flow upto 180 lpm in all control modes ○ For delivering continuous flow upto 250 lpm in spontaneous breathing mode with pressure support ○ If internal air source, the air source should be powered by the internal battery for at least 45 minutes. ○ The air source should have integrated dust filters which should be easily removable and washable ○ Bacteria / HEPA filters for delivering medical grade air should be integrated in the air source ○ The air source should have a mean time between failure / life of at least 5 years with no restriction on the number of hours of operation during these 5 years. The same should be committed in writing or proof of same to be given in writing.			
3	**Graphical Interface** – All commands and settings should be through an integrated at least 12 inch color touch screen. The 12 inch display should show :			
	○ At least 3 filled curve from pressure, flow, volume for easy viewing at a distance. ○ It should be possible to freeze the loops and calculate inflection points with a cursor and keep a reference point for loops			

6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	○ Integrated Graphical and tabular trend for 24 hours should be available for monitored parameters ○ There should be a day/ night mode for easy viewing at night. ○ The numerical readings should be freely configurable as per user wish in ANY order			
4.	**Valve response time**			
	○ The ventilator should have extremely sensitive valve with response time ≤ 5 msec for ensuring quick delivery of gases during spontaneous breathing (proof of same to be shown in technical data sheet)			
5.	**Oxygen Cell**			
	○ The ventilator should have low operating costs with a permanent/ non consumable O2 sensor for FiO2 monitoring. Same should be offered as standard.			
6.	**Flow sensor :**			
	○ The flow sensor should be of heated wire type for higher accuracy. ○ It should calibrate within 5 seconds and without necessity to disconnect from patient. ○ It should be easily replaceable without disassembling the machine or disassembling the expiratory valve ○ At least 5 no. flow sensor should be supplied for the lifetime of the equipment.			
7.	**Disposables -**			
	For highly infectious diseases, disposable patient hoses, disposable/reusable expiratory valves and disposable HMEs – 5 units each should be offered.			
8.	**Suction / Oxygen enrichment –**			
	○ 100% O2 enrichment for 3 minutes with automatic time countdown ○ Disconnection detection			
9.	**Modes of Ventilation -**The ventilator should have the following ventilation modes as standard with quick touch screen based operation / change from one mode to another:			
	○ Volume Control – Control, Assist Control, SIMV with			

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6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	Pressure support ○ CPAP with/without Pressure Support ○ PC-BIPAP – Biphasic (and not Bi-Level) with/without Pressure Support with spontaneous breathing at two pressure levels. Should be one pressure mode from intubation to extubation ○ Upgradable to high flow O2 Therapy with flow 2L/min-100L/min and Fi02 adjustable 21%-100% ○ Apnea backup ventilation mode with adjustable tidal volume and rate ○ Non Invasive Ventilation ▪ Should be possible to be used in all modes – from control to spontaneous ▪ Should have leakage compensation upto 200% of tidal volume ▪ The alarm limits and compensation criteria should get modified based on selection of Tube / Mask ventilation mode for all the modes ▪ The unit should be supplied with Face/ Nasal Masks with gel cushion for face, adjustable cushion pad for nasal bridge and magnetic connectors for quick fastening ▪ The mask should be non-vented type for use in a dual limb circuit and preferably from same vendor.			
1(	**Should have BTPS compensated settings for:**			
	○ Tidal Volume in Volume modes: at least 50 ml to 2000 ml ○ Inspiratory Pressure : approx. 1–99 cmH2O ○ CPAP/PEEP /Intermittent			

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6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	PEEP:approx. 0 – 50 cmH2O ○ Inspiratory Rate :approx. 2– 80 bpm ○ Inspiratory Time:approx0.2 – 10 sec ○ Flow acceleration:5 – 200 mbar (to deliver continuous peak flow upto 180 lpm) ○ Flow Trigger: 1 – 15 lpm ○ Pressure support:0 – 50 cmH2O above PEEP ○ Inspiratory hold : 0 – 15 sec ○ Expiratory hold: 0 – 15 sec ○ Sigh (Pressure oriented) :0 – 35 cmH2O, every 3 minutes for 2 cycles ○ FiO2: 21 - 100% ○ Apnoea alarm timing:15 – 60 seconds ○ Automatic altitude compensation:700 – 1060 hPa/ mbar/ CmH2O/ ○ Inspiration termination Criteria:5 – 75% of Peak Inspiratory Flow			
1	**Should have BTPS compensated real time monitoring of:**			
	○ Pressure - Peak, Plateau, Mean, CPAP/PEEP ○ Intrinsic PEEP with trapped Volume (standard or optional) ○ Tidal Volume - Set (Inspired) , Monitored (expired), spontaneous ○ Minute Volume - Total, spontaneous, leak ○ Peak Flow, Plateau time ○ Frequency/ Rate - Set (Inspiratory), Spontaneous, total, I:E Ratio ○ FiO2 measured ○ Lung Mechanics - Resistance, Compliance, Rapid Shallow Breathing Index (RSB)			
1	• **Should have three level (Advice-Caution – Warning) ISO alarm management with different audio visual color coded alarms, including corrective help messages on the screen for :-**			
	○ High/low Pressure ○ High/low Minute Volume			

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6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	○ High Rate ○ High Tidal Volume ○ Apnoea / apnoea alarm time ○ High/low O2 % (automatic settings) ○ Oxygen line failure ○ Technical error (with error code) ○ Incorrect / abnormal settings – with warning message			
1	Basic Unit(220 - 240 V) with integrated 12 inch touch screenand integrated 3 hours internal battery to power internal turbine/ air source			
1	Modular corrosion free Trolley of same make as the quoted brand and no local substitute will be accepted.			
1	Heated Flow sensor			
1	Reusable autoclavable expiratory valve - 2 No.s (1 on machine and 1 on standby)			
1	O2 cell – should be non consumable and life long			
1	Nebulizer – pneumatic , inspiration synchronized			
1	○ Oxygen connecting Hose – 3 meters ○ Nebulizer – pneumatic , inspiration synchronized ○ Hinged arm Support for patient circuit ○ Trolley – should be imported , of same make as the quoted brand andno local substitute will be accepted/ should be offered ○ Integrated RS232C Interface ○ Test Lung –from same company ○ Instruction Manual			
2	**Quality Standards and Support requirements**			
	○ The offered unit should have CE **AND** FDA certificate ○ The unit should comply with relevant IEC Certification, Environmental conditions, Electromagnetic compatibility ICE/EN 60601-1-2			

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6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	○ Indian subsidiary/ dealer should have nationwide network, support offices and must be also ISO 9001 certified.			
2	**User Training** • The supplier must conduct user training for this equipment to enable operators to use the equipment properly. The training shall include equipment, as well as routine checks and maintenance expected by users. • The supplier must conduct technical training for this equipment to enable technician to repair the equipment properly.			
2	**Warranty** Comprehensive warranty for 2 year from the date of installation.			
2	**Power – The ventilator should run on both mains and battery as below :** a. Mains Power – 230 V 50 Hz with onscreen battery power indication b. Battery – Internal battery with minimum 45minutes to one hour battery backup with onscreen battery power indication. c. The batteries – internal, should also power the air source. d. 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.			
2	**Maintenance service during warranty period** During the warranty period supplier must ensure preventive maintenance whenever required			
2	**Installation and commissioning** The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for purchaser in advance, in			

6. Fix ICU Ventilator

S.N.	Purchaser's Specifications	Bidders' Offer	Deviation If Any	Page no in catalog/datasheet
	detail.			
2	**Documentation** • User (Operating) manual in English • Service (Technical/Maintenance) manual in English. • The supplier must submit the original brochure or e-copy.			

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7. Portable Ventilator

	Specification	Bidders offer	Deviation If Any	Page no in catalog
	Manufacturer:			
	Made in:			
	Country of origin:			
	Brand:			
	• Should be time-cycled volume constant ventilator operating on mains, battery or ambulance/car battery. Battery backup should be for minimum of 8-9 hours. • Ventilator should be of low weight (not more than 5.5 kg) and tropicalized with operation range from – 20 to + 50 degrees centigrade • Should be able to operate at the altitude of 4000 meters. • Should have integrated touchscreen display of at least 4.3 inch for display of set and expired data as below : o Tidal volume: 100ml - 2 litres. o Rate: 2 - 50 breaths/min. o PEEP (integrated in main unit) : 0 to 20 mbar/cmH2O o Inspiratory Pressure – 20 – 60 cmH2O o Flow trigger : 1 – 15 lpm o Pressure trigger: 1-15 cmH20. o Pressure Support : 0 – 35 cmH2O o FiO2 : 40% or 100% • Should have following ventilation modes : o IPPV(CMV) o Assist Control o SPN-CPAP o NIV o CPR mode must be enabled with single keystroke. o Must be upgradeable to mainstream Capnography and PSV. • Should have both audio & visual alarms for: o High & Low Pressure o High pressure o Apnea o Setting errors o Low battery o Low pressure supply o Disconnection			

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7. Portable Ventilator

	Specification	Bidders offer	Deviation If Any	Page no in catalog
	• Standard Scope of supply to include the following : o Main unit with inbuilt battery :1 set o Breathing hose set with expiratory valve and flow sensor: 1unit o Bracket for fixing on trolley / bed rail: 1 unit o AC-DC adaptor: 1 unit o Oxygen high pressure hose: 1 unit o Test Lung: 1 unit o Hanging Plate assembly o Vehicular power supply cable-1 • Quality Standards and Support requirements o The offered unit should have CE /FDA certificate o The unit should comply with relevant IEC Certification o EC Directive 93/42/EEC Class IIb o Electromagnetic compatibility ICE/EN 60601-1-2:2001 and ISO 10651-3			
	User Training • The supplier must conduct user training for this equipment to enable operators to use the equipment properly. The training shall include equipment, as well as routine checks and maintenance expected by users. • The supplier must conduct technical training for this equipment to enable technician to repair the equipment properly.			
	Warranty Comprehensive warranty for 2 years from the date of installation.			
	Maintenance service during warranty period During the warranty period supplier must ensure preventive maintenance whenever required			
	Installation and commissioning The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for purchaser in advance, in detail.			
	Documentation • User (Operating) manual			

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7. Portable Ventilator

	Specification	Bidders offer	Deviation If Any	Page no in catalog
	in English • Service (Technical/Maintenance) manual in English. • The supplier must submit the original brochure or e-copy.			

8. Defibrillator

S.N.	Purchaser's Specifications	Bidder's Offer/ Statement of Compliance	Page no. of catalogue/ datasheet/ manual
	Automated External Defibrillator (AED)		
	Manufacturer		
	Brand		
	Type/Model		
	Country of Origin		
1	**Description of Functions**		
1.1	Defibrillator to be used to give electrical shocks to the patient's chest assisting theheart to resume its co-ordinated atria-ventricular pump function, in thecontext of advanced cardiac life support.		
2	**Operational Requirements**		
2.1	It shall operate on internal replaceable batteries.		
3	**System Configurations**		
3.1	Automated External Defibrillator (AED) with complete accessories,for adult paediatric and infant use.		
4	**Technical Specifications**		
4.1	It shall be portable Automated External Defibrillator (AED) for immediate operation, self-explanatory and based on intuitivelyunderstood design features.		
4.2	Shock and splash resistant housing allows functioning in demanding environment.		
4.3	Shall perform self-test when device is switched on and shall indicate ready for use. Self-test is performed upon each switched on ready-for-use is indicated		
4.4	It shall have capability of automated assessment and analysis, adequately sensitive and specific forchildren and adults.		
4.5	The device shall have facility of step-by-step guidance from the large pictograms when it is on		

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8. Defibrillator

S.N.	Purchaser's Specifications	Bidder's Offer/ Statement of Compliance	Page no. of catalogue/ datasheet/ manual
4.6	It shall analyse, shock with self-adhesive external pads, colour coded, each with pictogram.		
4.7	It shall have automated direct defibrillation with biphasic waveform, máximum energy approximately 150J.		
4.8	It shall have built-in load compensation algorithm adjusts energy delivery accordingpatient's impedance.		
4.9	Shall come with standard pads fit for children (> 8 year or > 25kg) and adults.		
4.10	For infants (> 1 year or > 6kg) shall come with attenuation pads, reductionto maximum approximately 50J.		
4.11	It shall have pads with plug and power cord, length approximately 100cm		
4.12	It shall have built-in audible metronome assists Cardiac Pulmonary Resuscitation (CPR)reports, with audio-visual alerts of operational status, malfunctions(electrodes) and low battery status.		
4.13	Facility of internal safety discharge of accumulated energy upon 20sec non-delivery,switch-off or malfunction		
4.14	Battery capacity approximately 100 shocks of 250J.		
5	**Accessories, Spare Parts and Consumables**		
5.1	**Accessories:** • 1 x Set of children, adult self-adhesive external pads, colour coded, • with pictogram • 1 x Set of infant attenuated adhesive external pads, colour coded, with • pictogram • 1 x CD-ROM with training material • 2 x Set of spare batteries 9 V PP3 / 6LR61 (separately packed) or long life lithium manganese oxide battery. • 1 x Carry case with storage pocket for leads and other accessories		
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: It shall operate on internal		

8. Defibrillator

S.N.	Purchaser's Specifications	Bidder's Offer/ Statement of Compliance	Page no. of catalogue/ datasheet/ manual
	replaceable batteries, type 9V PP3 / 6LR61 or M5070A type lithium long life battery.		
7	**Standards & 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	Comply to AHA & ACLS requirements or shallmeet AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997; 95:1677-1682).		
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.		
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.		

9. Portable X-ray

S.N.	Purchaser's Specifications	Bidder's Offer
	X-Ray Machine Mobile, 6KW or More	
	Manufacturer	
	Brand	
	Type/Model	
	Country Of Origin	
1	**Description of Function**	
1.1	Mobile X-Ray Unit is required to perform X-Ray studies in Emergency and trauma departments and at bedside in wards and ICU.	
2	**Operational requirements**	
2.1	Compact, lightweight, easily transportable mobile radiographic unit suitable for bedside X-ray for trauma units (accidental cases), intensive care units, operation theatres and also in the Radiology department for conventional radiography.	
3	**System Configuration**	
3.1	X-ray Machine Mobile, 6KW or more complete unit and with complete accessories.	
4	**Technical Specifications**	
4.1	**The Generator:** • Microprocessor-controlled high frequency generator. • Max output: not less than 6kW at 125kv, 100ms • Voltage range: 40 - 125kV in more than 25 steps. • Max tube current: 250mA • mAs range: 0.5 - 200mAs in more than 30 steps • Minimum Exposure time: not more than 5ms • Soft touch key operations • Anatomical Programmable Radiographic mode shall be available.	
4.2	**X-Ray Tube:** • Rotating anode type • Anode rotation: 2800rpm • Anode heat capacity: not less than 100 kHU • Dual focal spot: not more than 0.8mm	
4.3	**Collimator:** • Manually adjustable multi-leaf collimator, rotatable ±90° • Collimator light halogen lamp: 180 lux at 1m SID	
4.4	**Tube positioning:** • Max tube height: not less than 1800mm, • Min tube height: not more than 450 mm • Max horizontal extension: not less than 800mm	
4.5	The unit shall have counter balanced arm system	
4.6	Shall have remote control of exposure to protect operator.	
4.7	It shall have cassette compartment of holding about 8 pieces of 35x43cm cassettes.	
4.8	The unit must have an effective braking system for parking, transport and emergency braking.	
4.9	The unit shall come with overload protection device.	
5	**Accessories, spares and consumables**	
4.1	**Accessories:**	

S.N.	Purchaser's Specifications	Bidder's Offer
	• Lead apron lightweight- 1 nos. • Grid(Ratio 6:1) of 12"x15" and 10"x12": 01 each. • Remote control kit: 01 no.	
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 5m automatic retractable power cable for easy connection to any wall outlet with protective ground conductor.	
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	Shall meet: • IEC 60601-1-3 - Part 1: General Requirements for safety - Collateral Standard: General Requirements for Radiation Protection in Diagnostic X-Ray Equipment. • IEC 60601-2-7 - Part 2-7: Particular Requirements for the Safety of High-Voltage Generators of Diagnostic X-Ray Generators.	
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 afteracceptance.	
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 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.	

10. Air Mattress

S.N.	Purchaser's Specifications	Bidder's Offers
	Air Mattress with electric air pump	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	The *medical air mattresses with airpump* is useful in preventing or treating serious ailments related to extended bed rest, such as pressure sores and skin shearing.	
2	**Operational Requirements**	
2.1	Inflatable air mattress with electric air pump	
3	**System Configuration**	
3.1	Inflatable air mattress with electric pump with complete accessories.	
4	**Technical Specifications**	
4.1	Should be made of medical grade PVC material, comfortable and skin friendly	
4.2	Should support weight up to 100kg or more.	
4.3	Pump should have low noise	
5	**Accessories, spares and consumables**	
5.1	High quality electric air pump	
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**	
8	**User Training**	
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly.	
9	**Warranty**	
9.1	Warranty for 1 year.	
10	**Maintenance Service During Warranty Period**	
10.1	Standard warranty conditions are applicable.	
11	**Installation and Commissioning**	
11.1	Supplier must accomplish proper installation &commissioning of equipment	
12	**Documentation**	
12.1	User /instructions manual in English.	

11. Patient Trolley

S.N.	Purchaser's Specifications	Bidder's Offers
	Patient Trolley	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	Patient Trolley is required for Patient transfer to & froICU/OT/Emergency.	
2	**Operational Requirements**	
2.1	Patient trolley with pneumatic adjustment for back section & hydraulic adjustment for height.	
3	**System Configuration**	
3.1	Patient trolley with mattress and with complete accessories.	
4	**Technical Specifications**	
4.1	Must have three sectional mattress base made of X Ray translucent high pressure laminate with facility to insert X Ray Cassette from either sides & ends of the trolley.	
4.2	Must be able to X Ray the patient from positions along the entire length and width of the trolley.	
4.3	Must have pneumatic step less adjustment for back section, Trendelenburg, reverse Trendelenburg and foot section.	
4.4	Must have hydraulic height adjustment with a foot paddle on either side of the trolley	
4.5	Frame must be made up of epoxy powder coated steel	
4.6	Must have Central braking system with steering facility	
4.7	Must be equipped with 360 deg. swivelling heavy duty castors diameter 150 mm.	
4.8	Must have bumpers at all the four corners of the trolley	
4.9	Must have facility to fix IV rod at all the four corners and middle of mattress base frame.	
4.10	Must have place for fixing 'B' Type Oxygen Cylinder	
4.11	**Dimensions, Approx. ±10%:** • Max. Length : 2000-2100 mm • Max. Width : 730-750 mm • Height : 535 – 905 mm • Trendelenburg : 14-20^0 step less • Anti Trendelenburg : 7-10^0 step less • X ray viewing area : entire length	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** • Anti-static Hygienic, washable Mattress (80mm thick) with pull straps, 01 pc • Collapsible Side Rails, 01 pair • Stainless steel I.V. Rod 01 pc • Cylinder Holder for 'B' Type Oxygen Cylinder.01 pc	
5.2	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	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**	

S.N.	Purchaser's Specifications	Bidder's Offers
8	**User Training**	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	**Warranty**	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	**Maintenance Service During Warranty Period**	
10.1	During the warranty period supplier must ensure 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.	

12. Wheel Chair

S.N.	Purchaser's Specifications		Bidder's 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	Both rear wheels with brake.		
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	Armrests seat and back are upholstered.		
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%:** • 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.		

S.N.	Purchaser's Specifications	Bidder's Offer
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**	
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.	

13. BIPAP Mahine

S.N.	Purchaser's Specifications		Bidder's Offer
	BIPAP (Bi-level Positive Airway Pressure)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	BIPAP stands for Bi-level Positive Airway Pressure. It is a breathing apparatus that helps people get more air into their lungs.		
2	**Operational Requirements**		
2.1	Integrated display screen shall display easy-to-read real time graphics in waveform or bar scale format the measured and calculated parameters.		
3	**System Configuration**		
3.1	BIPAP (Bi-level Positive Airway Pressure), complete unit with all standard accessories.		
4	**Technical Specifications**		
4.1	Machine shall be based on the solenoid valve technology and shall offer preferably auto track sensitivity and adjustable rise time.		
4.2	IPAP: approx. 4 to 30cmH2O.		
4.3	EPAP: approx. 4 to 25cmH2O.		
4.4	Breath rate: approx.0 to 30BPM with spontaneous for time mode.		
4.5	Timed inspiration: approx. 0.5 to 3.0s.		
4.6	Rise time: approx. 100 to 600ms.		
4.7	Shall have facility for upgrades.		
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).		

S.N.	Purchaser's Specifications	Bidder's Offer
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 ISO13485:2003/AC:2007 for Medical Devices **AND**	
7.2	CEceritificate should be submitted.	
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 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 equipment onsite.	
12	**Documentation**	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	
12.3	List of important spare parts and accessories with their part numbers and costing.	

14. Nebuliser

S.N.	Purchaser's Specifications		Bidder's Offer
	Nebuliser		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Nebuliser is a device used to administer medication to people in forms of a liquid mist to the airways. It is commonly used in treating cystic fibrosis, asthma, and other respiratory diseases.		
2	**Operational Requirements**		
2.1	Heavy duty compact Nebuliser is required.		
3.	**System Configuration**		
3.1	Nebuliser, complete unit with all standard accessories.		
4	**Technical Specifications**		
4.1	Compact, lightweight, low noise.		
4.2	Durable longlife compressor. Suitable for heavy duty/ institutional (hospital) use, must be able to run uninterruptedly for min one hour.		
4.3	Maximum pressure: 2.0 to 2.5bars.		
4.4	Must produce particle of size 1-5µm		
4.5	Aluminium cabinet painted with epoxy powder.		
4.6	Piston-type electric aspirator that offers high performance and great durability.		
4.7	Protective thermal cut out relay.		
4.8	Air delivery rate approx.15l/min.		
4.9	24 hours continuous work for hospital use.		
5	**Accessories, spares and consumables**		

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S.N.	Purchaser's Specifications	Bidder's Offer
5.1	**Accessories:** • Nebuliser bulb reusable, autoclaveable- 01 no. • Adult and child face mask reusable, autoclaveable- 02 each. • T piece, Mouthpiece, Nosepiece, reusable, autoclaveable- 01 each. • 1 x 200 cm. tubing • Spare filters- 10 nos.	
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**	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**	
8	**User Training**	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	**Warranty**	
9.1	Comprehensive warranty for 1 year after acceptance.	
10	**Maintenance Service during Warranty Period**	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	**Installation and Commissioning**	
11.1	Supplier must accomplish proper commissioning of equipment onsite.	
12	**Documentation**	
12.1	User (Operating) manual in English.	
12.2	Service (Technical / Maintenance) manual in English.	
12.3	List of important spare parts and accessories with their part number and costing.	

15. Suction Machine

S.N.	Purchaser's Specifications		Bidder's Remarks
	Electric Suction Pump		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	To extract fluid from the body during surgery or emergency treatments.		
2	**Operational Requirements**		
2.1	An electric double jar suction pump for surgical use.		
3	**System Configuration**		
3.1	Suction machine with two bottles and accessories.		
4	**Technical Specifications**		
4.1	It shall be mounted on four robust, fully 360 degree swivelling, antistatic castors, with at least 2 diagonal brakes.		
4.2	Come with suction controller and vacuum gauge / indicator.		

S.N.	Purchaser's Specifications	Bidder's Remarks
4.3	The pump shall be oil free vacuum pump where the pumped liquid shall be sealed off from the pump.	
4.4	Come with overflow control valves. Bidder shall provide technical design and details of the pump with this TSF	
4.5	Vacuum rate shall be from 0 to not less than 640 mmHg (0.85 bars).	
4.6	Air flow rate shall be at least 25 l/min.	
4.7	The pump shall come fitted with twin unbreakable, transparent, autoclaveable polycarbonate suction bottles minimum 2 litre each.	
4.8	The bottles shall be incorporated with an automatic suction cut-off mechanism when they become full.	
4.9	The suction bottles shall come with overflow lid.	
4.10	Noise level: not more than 55 dBA.	
4.11	Air discharge from pump shall be filtered by a 0.3 micron bacterial hydrophobic filter.	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** • Electrical cable: 1 minimum 3 meter length • Clear suction tubing: 1 set of 5 meter length • Bacterial filter: 0.3 micron, 10 pcs • Spare unbreakable, transparent, autoclaveable polycarbonate suction bottle 2L: 1pc • Complete connection tubing set: 1 set • Hand switch & foot switch with cables for operating easily.	
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	Must operate on 220-240V AC as well as rechargeable batteries.	
7	**Standards and Safety Requirements**	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**	
8	**User Training**	
8.1	Supplier must provide user training regarding how to use the equipment.	
9	**Warranty**	
9.1	Warranty for 1year.	
10	**Maintenance Service During Warranty Period**	
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	**Installation, Inspections and Commissioning**	
11.1	Must supply preassembled unit, ready to use.	
12	**Documentation**	
12.1	User (Operating) and Service (Technical/Maintenance) manuals to be supplied in English.	
12.3	List of important spare parts and accessories with their part numbers and costing	

16. X-ray view box

S.N.	Purchaser's Specifications		Bidder's Offer
	X-ray view box double		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	X-ray view box (double) for viewing MRI, CT and x-ray images in films.		
2	**Operational Requirements**		
2.1	X-ray view box, complete set		
3	**System Configuration**		
3.1	X-ray view box, complete set		
4	**Technical Specifications**		
4.1	Dimension: Frame - approx..880*503*29mm Viewing area– approx.736*440mm		
4.2	Should have LED light source		
4.3	Power consumption should be 30watt		
4.4	Adjustable brightness with more than 10000 lux		
4.5	Weight should not be more than 8kg		
4.6	Should have clips for holding on wall		
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 Power Supply, Climate, Temperature, Humidity, etc.		
6.2	Power supply: 220 – 240 VAC, 50-60Hz		
7	**Standards and Safety Requirements**		
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2009.		
8	**User Training**		
8.1	Must provide user training (including how to use and maintain the equipment).		
9	**Warranty**		
9.1	Comprehensive warranty for 1year.		
10	**Installation and Commissioning**		
10.1	Supplier must accomplish proper commissioning of the equipment on site.		
11	**Documentation**		
11.1	User (Operating) / service manual in English		

17. ECG Machine

S.N.	Purchaser's Specifications	Bidder's Offer
	ECG Machine, (3 Channel)	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
	Manufacturer's Authorization Letter	
1	**Description Of Function**	
1.1	ECG Machine is primary equipment to record ECG Signal in various configurations.	
2	**Operational Requirements**	
2.1	Portable digital ECG machine must be able to acquire Simultaneous 3 channel ECG recording with 12 lead simultaneous acquisition with auto summary	
3	**System Configuration**	
3.1	Portable digital ECG machine with complete accessories	
4	**Technical Specifications**	
4.1	Simultaneous acquisition of up to 12 leads	
4.2	Should have TFT Color LCD Display	
4.3	Display to Preview signal quality prior to printing thereby saving time and paper	
4.4	Should have patient data entry feature	
4.5	Should have colour coded keys for ease of operation	
4.6	Should have different mode of printing: Automatic, Manual	
4.7	Should have different sensitivity levels : 2.5,5,10,20,40 mm/mV Auto	
4.8	Recording speeds of 5,10, 25 and 50 mm/sec	
4.9	Should have a high frequency Response: 0.05 Hz to 150 Hz	
4.10	Should have a sampling frequency of 1000 Hz	
4.11	User selectable filter: AC Filter, EMG filter- 25 or 35, Base Line Filter	
4.12	Printer must compatible with Roll ECG paper	
4.13	Light weight – Less than 1.6 Kg	
4.14	Battery operation – Lithium Ion Battery -minimum 10 HRS continuous work.	
4.16	Easy to carry handle	
4.17	Automatic measurement and interpretations of ECGdata.	
4.19	Should have pacemaker detection facility	
4.20	PC interface facility and optional PC interface software (Optional ECG data transferfeature)	
4.21	External storing and retrieving facility through USB storage device	
5	**Accessories, spares and consumables**	
5.1	**Accessories:**	
	Power Cable – 1 no;	

S.N.	Purchaser's Specifications	Bidder's Offer
	Lead Patient Cable – 1set;	
	Chest Electrodes – 20 nos;	
	Clip-onelectrodes – 8 nos;	
	ECG Gel – 2 bottle;	
	Thermal recording Paper – 5nos	
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	**Operating Environment**	
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220–240V AC, 50Hz fitted with appropriate plug type. 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 1 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	Supplier must accomplish proper installation and commissioning of the equipment on site.	
12	**Documentation**	
12.1	User (Operating) manual in English	
12.2	Original Brochure Must be submitted	

18. Bain Circuit

S.N.	Purchaser's Specifications	Bidders Offer
	Bain Circuit	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
	Description of Function	
1.1	Bain Circuit is comprises co-axial modification of basic T-piece system which has been developed for facilitating scavenging of waste anesthetic gases. As a tube carrying fresh gas, it travels inside outer reservoir tube to endotracheal tube connector. The process includes patient inspiring fresh gas from the outer reservoir tube and expiring into reservoit tube.	
2	**Technical Specifications**	
2.1	Should be Compact and inexpensive with low dead-space.	
2.2	Should have Low resistance to breathing	
2.3	Should Facilitates scavenging of waste gases.	
2.4	Should be either Sterile or Non- Sterile or Individual Packed	
3	**Standards and Safety Requirements**	
3.1	ISO 9001:2003 or CE if applicable	

19. T piece

S.N.	Purchaser's Specifications	Bidders Offer
	T piece	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Technical Specifications**	
1.1	It should be medical grade material.	
1.2	Its tube length should be at least 200cm.	
2	**Standards and Safety Requirements**	
2.1	ISO 9001:2003 or CE if applicable	

20. Laryngoscope Set

S.N.	Purchaser's Specifications		Bidders Offer
	Laryngoscope Set		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Laryngoscopy to facilitate tracheal intubation during general anaesthesia or cardiopulmonary resuscitation or for procedures on the larynx or other parts of the upper tracheobronchial tree.		
2	**Operational Requirements**		
2.1	Battery powered laryngoscope unit (handle to take C-size batteries).		
3	**System Configuration**		
3.1	Laryngoscope set		
4	**Technical Specifications**		
4.1	Blades to be made of surgical grade stainless steel.		
4.2	Clip-on quick release mechanism for blades, which also provides electrical contact for blade light. Light to be activated when blade is engaged.		
4.3	Shall operate on C-size batteries.		
4.4	Handle/battery unit to be made of non-ferrous metal.		
5	**Accessories, spares and consumables**		
5.1	**Accessories:** • Spare bulbs: 03 nos. • Blades: One each of following sizes: i-Neonate size 00 ii-Adult small size 3 iii-Adult medium size 4 iv-Adult large size 5 • Set of C-sized batteries		

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Teku, Kathmandu

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20. Laryngoscope Set

S.N.	Purchaser's Specifications	Bidders Offer
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.	
6.2	Battery operated system.	
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	Not applicable.	
9	**Warranty**	
9.1	Warranty for 1year 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 (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.	

21. Laryngoscope

S.N.	Purchaser's Specifications		Bidders Offer
	Laryngoscope Set		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Laryngoscopy to facilitate tracheal intubation during general anaesthesia or cardiopulmonary resuscitation or for procedures on the larynx or other parts of the upper tracheobronchial tree.		
2	**Operational Requirements**		
2.1	Battery powered laryngoscope unit (handle to take C-size batteries).		
3	**System Configuration**		
3.1	Laryngoscope set		
4	**Technical Specifications**		
4.1	Blades to be made of surgical grade stainless steel.		
4.2	Clip-on quick release mechanism for blades, which also provides electrical contact for blade light. Light to be activated when blade is engaged.		
4.3	Shall operate on C-size batteries.		
4.4	Handle/battery unit to be made of non-ferrous metal.		
5	**Accessories, spares and consumables**		
5.1	**Accessories:** • Spare bulbs: 03 nos. • Blades: One each of following sizes: i-Neonate size 00 ii-Adult small size 3 iii-Adult medium size 4 iv-Adult large size 5 • Set of C-sized batteries		

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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).	
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.	
6.2	Battery operated system.	
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	Not applicable.	
9	**Warranty**	
9.1	Warranty for 1year 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 (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.	

21.Trancheostomy Tube Different Size

S.N	Purchaser's Specifications	Bidder's Offer
	Trancheostomy Tube Different Size	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description Of Function**	
1.1	A tracheostomy (trach) tube is a curved tube that is inserted into a tracheostomy stoma (the hole made in the neck and windpipe (Trachea)).	
2	**Technical Specifications**	
2.1	Should be transparent PVC tube with radiopaque line and low-pressure cuff.	
2.2	Should have adjustable collar and tape	

2.3	This deviceshould be available in different size (size should be clearly mentioned in bidder's offer)	
3	Certification should be provided if applicable	
4	User training/ Technician training if applicable	

22. Portable USG				
S.N.	**Purchaser's Specifications**	**Bidder's Offer**	**Deviation If Any**	**page no of data sheet/ Catalogue in support of specification**
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	**Description of Functions**			
1.1	A fully digital colour Doppler ultrasound DICOM compatible imaging system for esp cardiology and abdomen, anaesthesia, paediatric, orthopaedics, MSK, urology, cephalic, interventional ultrasound, vascular and small parts applications for future use			
2	**Operational Requirements**			
2.1	It shall operate on AC power supply.			
3	**System Configurations**			
3.1	Digital Echocardiography machine with 2 probe			
3.2	1 unit of broad bandwidth of 2 - 6MHz, convex array probe for OB/GYN and abdominal application.			
3.3	1 unit of broad band width of :2-3.5 MHz broadband phased array transducer			
3.4	1 unit of B/W thermal printer with 10 rolls of high density paper.			
3.5	System should have at least 15 inch High definition LCD monitor with 0 to 90 degree rotation			
3.6	System should have at least 2 active probe connector			
4	**Technical Specifications**			

22. Portable USG				
S.N.	**Purchaser's Specifications**	**Bidder's Offer**	**Deviation If Any**	**page no of data sheet/ Catalogue in support of specification**
4.1	The system should have advanced technology like multi-beam forming technology, tissue harmonic imaging, phase inversion harmonic imaging, high pulse repetition frequency, triplex imaging, steer imaging, speckle reduction technology, VIS needle, frequency compound imaging, space compound imaging, Trapezoid imaging and should have intelligent upgrade facility.			
4.2	The system should support broadband and multi frequency probes spanning from 2-16Mhz			
4.3	The system should have following standard function and configuration:			
a)	Should have measurement package for cardiology, vascular, paediatrics, myocardial performance index, PW auto trace, IMT measurement			
b)	Should have imaging modes: B, M, THI, CFM, PDI, TDI, PW, CW, HPRF, color M mode, steer M mode, biopsy enhanced, dual live mode.			
c)	The user should be able to customize the presets based on diferent probe and diagnostic part to optimize imaging parameters and adjustment combination. Users should be able to import or export presets and arrange it.			
4.4	System should be able to export images in JPG, BMP, TIF, AVI, WMV format			
4.5	System should be offered with USB, DVD, VGA, BNC ports			
4.6	System shall provide all-digital broadband beam forming with maximum display depth shall be at			

22. Portable USG				
S.N.	**Purchaser's Specifications**	**Bidder's Offer**	**Deviation If Any**	**page no of data sheet/ Catalogue in support of specification**
	least 35cm.			
4.7	System shall be incorporated with English operation menu and reporting.			
4.8	With digital broad bandwidth multi-frequency imaging capability.			
4.9	With Doppler angle and angle correction.			
4.10	Frame rate should be at least 400 frames per second or more in B mode, 50 fps in Color/TDI mode			
4.11	Inbuilt hard disk: at least 500 GB			
4.12	Display depth: should be at least 35cm.			
4.13	Boot time: approx. 50 second			
4.14	Body marks: more than 100 selectable			
4.15	Cine loop of 1000 frames or more			
4.16	Dynamic range: 30-165db			
4.17	Grayscale levels: 256			
5	**Accessories, Spare Parts and Consumables**			
5.1	All standard accessories/consumables/parts (including 2 bottles of ultrasound gel),printer thermal paper (10 nos) 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.			
5.2	All standard Maintenance tools and cleaning /lubrication materials where applicable shall be included. 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			

22. Portable USG				
S.N.	**Purchaser's Specifications**	**Bidder's Offer**	**Deviation If Any**	**page no of data sheet/ Catalogue in support of specification**
	Specifications Form.			
6	**Operating Environment**			
6.1	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metres in length.			
7	**Standards & Safety Requirements**			
7.1	Must submit EN ISO 13485:2016 **AND**			
7.2	CE (93/42 EEC Directives) **or** USFDA approved product certificate.			
7.3	Electrical safety conforms to standards for Electrical Safety IEC 60601-2-37 Medical electrical equipment – Part 2- 37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and 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 2 years after acceptance.			
10	**Maintenance Service During Warranty**			

22. Portable USG				
S.N.	**Purchaser's Specifications**	**Bidder's Offer**	**Deviation If Any**	**page no of data sheet/ Catalogue in support of specification**
	Period			
10.1	Preventive and corrective maintenance services during warranty period shall be included.			
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.			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			
12.5	Technical data sheet must be provided otherwise the bid will not be accepted.			

23. ET Tube Different Size with subglottic Suction Plug Port

S.N	Purchaser's Specifications	Bidder's Offer
	ET Tube Different Size	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description Of Function**	
1.1	Endotracheal tube with high quality of valve for relaible control of cuff inflation and pressureand a smooth soft tip reducing the potentail of tracheal trauma during intubation	
2	**Technical Specifications**	
2.1	Should be of single use and sterile	
2.2	Should be latex free	
2.3	Should have depth mark liners to facilitate the placement of tube during intubation	
2.4	Valve should be of good quality for reliable control of cuff inflation and pressure	
2.5	This deviceshould be available in different size (size should be clearly mentioned in bidder's offer)	
3	Certification should be provided if applicable (ISO / CE)	
4	User training/ Technician training if applicable	

24. Pulse Oximeter

S.N.	Purchaser's Specifications	Bidder's Offer
	Hand Held Pulse Oximeter	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	**Description of Function**	
1.1	Pulse oximeter for SPO2 and Heart Rate	
2	**Operational Requirements**	
2.1	Pulse Oximeter with adult and neonate SPO2 Probe	
3	**System Configuration**	
3.1	Pulse Oximeter with adult and neonate SPO2 Probe	
4	**Technical Specifications**	
4.1	Should display SPO2 and Pulse Wave form	
4.2	Plethysmograph graph should be displayed on display	
4.3	Should consists of color TFT display with multi directional views with brightness control	
4.4	Should have low battery alarm on display	
4.5	Should have programmable alarms and display	
4.6	Should have pulse sound indication	
4.7	Should have AC charger	
4.8	Should be with Flash memory with 24 data read back.	
4.9	Display direction should be changed.	
4.10	Should have data transmission facilities.	
5.0	**System Configuration 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 must be designed to operate normally under the condition of the purchaser's country. The conditions include power supply, climate, temperature, and 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	Should provide user training	
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 Inspection and Commissioning**	
10.1	Must supply preassembled unit, ready to use.	
12	**Documentation**	
12.1	User/Instructions manual shall be provided in English.	

25. Stethoscope

S.N.	Purchaser's Specifications		Bidder's offer
	Stethoscope		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	The stethoscope is used for listening to the beating heart of a human, or the lungs. It is also used for listening to the flow of the blood in the surrounding area of the heart.		
2	**Operational Requirements**		
2.1	Dual type stethoscope - Physician's stethoscope.		
3	**System Configuration**		
3.1	• Stethoscope, dual cup/bell • Tubes		
4	**Technical Specifications**		
4.1	Dual, cup/bell and diaphragm head		
4.2	Head and ear tube assembly to be made of non-ferrous metal,		
4.3	Tubes to be synthetic material and ear tubes to have shaped plastic cushion ends.		
5	**Accessories, spares 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	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.		
8	**User Training**		
8.1	Not applicable.		
9	**Warranty**		
9.1	Warranty for 1year.		
10	**Maintenance Service During Warranty Period**		

25. Stethoscope

S.N.	Purchaser's Specifications	Bidder's offer
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 in English	

26. BP apparatus

S.N.	Purchaser's Specifications		Bidder's Offer
	Sphygmomanometer (BP apparatus)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Sphygmomanometer is a device used to measure blood pressure, composed of an inflatable cuff to restrict blood flow, and a mechanical manometer to measure the pressure.		
2	**Operational Requirements**		
2.1	Aneroid sphygmomanometer having a dial to show clear numbers and pointer / needle for measurement of pressure.		
3	**System Configuration**		
3.1	• Aneroid sphygmomanometer		
	• Cuffs for child size and for adult size (regular)		
	• Inflation bulb		
	• Carrying pouch		
4	**Technical Specifications**		
4.1	Packed in easy carrying high quality pouch made of waterproof cloth to accommodate cuff, and inflation bulb.		
4.2	Gauge to be calibrated in 2 mm Hg units.		
4.3	Must provide blood pressure cuffs for child size and for adult size (regular).		
5	**Accessories, spares 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	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**		

26. BP apparatus

S.N.	Purchaser's Specifications	Bidder's Offer
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 1year.	
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 in English	

27. Needle Destroyers

S.N.	Purchaser's Specifications		Bidders Offer
	Needle Destroyers		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Needle destroyers are used to destroy the needles instantly to prevent reuse and manage waste management effectively.		
2	**Operational Requirements**		
2.1	The needle should be completely incinerated without visible sparking and arcing		
3	**System Configuration**		
3.1	Needle Destroyers, complete unit with complete accessories.		
4	**Technical Specifications**		
3.1	Built in SS sharp blade cutter to cut the nozzle of the syringe		
3.2	Needle destruction rate shall be max. of 2 seconds per needle.		
3.3	Provision of removable and reusable collection receptacle for syringe nozzle and needle debris of approximately 500 syringes.		
3.4	Preferably shall have collection receptacle to have a see-through panel to view the waste.		
3.5	During operation and removal of refuses the container shall be designed for safe handling against any injury or spill over / contact with debris.		
3.6	Provision of on/off switch and pilot lamp.		

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27. Needle Destroyers

S.N.	Purchaser's Specifications	Bidders Offer
3.7	Unit shall be made of high grade stainless steel material.	
3.8	Must be able to destroy of all types of needle.	
4.9	Unit shall be shock proof and provided with proper insulation as per international safety standard norms.	
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 single phase as appropriate fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7	**Standards and Safety Requirements**	
7.1	Must submit ISO 9001 or ISO13485:2003/AC:2007 **AND**	
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 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.	

28. Autoclave, Horizontal, Double Door, 800 litres		
S.N.	**Purchaser's Specifications**	**Bidder's Offer**
	Autoclave, Horizontal, Double Door, 800 litres	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	CSSD autoclave shall be able to sterilize wrapped instruments, unwrapped instruments, linen, glassware, liquids.	
2	**Operational Requirements**	
2.1	Microprocessor controlled horizontal electrically heated autoclave is required.	
3	**System Configuration**	
3.1	Autoclave, Horizontal, Double Door, 800 litres, with complete accessories.	
4	**Technical Specifications**	
4.1	Shall have fully automatic operation.	
4.2	The sterilizer shall be pneumatically (Compressed Air) operated, fully automatic double door, triple jacketed chamber front loading.	
4.3	The autoclave shall be designed to operate on various pre select programs such as pre-vacuum cycle, gravity cycle, porous load cycle, liquid cycle and two standard Bowie Dick test and vacuum leak cycle.	
4.4	Autoclave shall work up to 134-136 ^{o}C temperature.	
4.5	It shall come with vertical sliding door, a trolley, a carriage, a steam generator and a dedicated air compressor.	
4.6	**Construction:**	
	Jacket shall be constructed of heavy duty 304L grade stainless steel.	
	Door shall be constructed of heavy duty 304L grade stainless steel.	
	Chamber shall be constructed of heavy duty 316L Ti grade stainless steel.	
	All the pipes and fittings are made of stainless steel and Brass.	
4.7	Chamber constructed of heavy duty 316L grade stainless steel shall have following features:	
	Chamber shape: Horizontal rectangular design	
	Chamber dimensions: 660 X 950 X 1800mm (W x H x D) approximately.	
	Chamber volume: approx. 800+ litres.	

4.8	Shall come with safety features such as:	
	• Door must not open in case chamber is pressurized.	
	• Safety valves for chamber/jacket, current overload relays and contactors for vacuum pump.	
	• Shall have at least two limit switches at the end of door-close position.	
	• The door shall slide down immediately upon sensing an obstruction during closure.	
	• Shall have thick glass wool insulation, tight wrapped with thick silver foil around jacket and door to avoid heat exposure.	
4.9	Chamber is provided with two rails for easy/smooth movement of carriage.	
4.10	On the front panel of autoclave there are different pressure gauges for depiction of actual pressure in chamber, jacket and pressure on gasket.	
4.11	Trolley shall be made of high quality 316L SS to transfer carriage from one place to another and shall have foot locks and locking mechanism for carriage while resting above the trolley.	
4.12	It shall be high speed microprocessor control for accurate progression of sterilization cycle. Facility to save and create history log files that can be opened with the support of Microsoft based operating system. Facility to view and operate the cycle progression from remote location.	
4.13	Keypad shall be provided which is used for selecting the cycle and to adjust and feed alphanumeric data.	
	Multiple password access levels (specify number) shall be provided to control access/operation of the machine preventing unauthorized access. These access levels shall be user selectable.	
4.14	Approx. 7" touch screen multi-colour LCD display for preselect program information. The information must include cycle stage, chamber temperature, chamber pressure, jacket pressure along with the information about failures and interrupts. It shall have storage capacity of approx. 200 cycles built-in memory.	
4.15	Documentation: The system shall come with real time built-in printer which gives/prints the real time event during the propagation of cycle such as time in hour, minute, second along with date, load no., operator etc. Any failure is indicated via audio-visual alarm and a print out.	
4.16	Shall come with ring type three phase water pre-vacuum pump for pre-vacuum stage and drying stage. Vacuum shall have an adjustable range between 5 kPa and 75 kPa during preselect of 5 pre-vacuum pulses.	

4.17	Shall come with heat condensation device that cools the condensate emitting from autoclave during the exhaust.	
4.18	Shall have fully automatic steam generator made of 316L chamber to feed steam to autoclave jacket and gasket groove. Water reservoir, water sensing electrodes, pressure switches and safety valve must be part of steam generation unit. It shall come with heating element of 55-65KW made of stainless steel.	
4.19	Exhaust air filtration with condensate sterilization for emission-free sterilization of infectious pathogens, equipped with filter cartridge of 0.2 μm pore size, with easy access for replacement.	
4.20	Air compressor: Shall come with air compressor for all pneumatic operation.	
4.21	Even with a total control failure, all mechanical safety features must be left intact.	
4.22	RS 232 interface for direct connection to a personal computer (PC), and programs for conforming documentation, diagrams, storage, and printout.	
5	**Accessories, spares and consumables**	
5.1	**Accessories:**	
	• Spare heating element- 2 set	
	• Spare air filters: 5 nos.	
	• Spare door gaskets: 2 nos.	
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	**Operating Environment**	
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.	
6.2	Power supply: 380-440 V (3 Phase), 50Hz fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.	
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	Shall meet IEC 61010-2-040 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials.	
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 preventive maintenance 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 numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	

29. Electronic Adult Weighing Scale

S.N.	Purchaser's Specifications		Bidder's Offers
	Electronic Adult Weighing Scale		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	An electrically operated adult weighing scale		
2	**Operational Requirements**		
2.1	Electronic Adult Weighing Scale		
3	**System Configuration**		
3.1	Electronic Adult Weighing Scale on main power as well as battery operated.		
4	**Technical Specifications**		
4.1	Capacity : 150 kg		
4.2	Accuracy : 100 g		
4.3	Display: LED / LCD		
4.4	TARE facility with zero function.		
4.5	HOLD function to lock the weight.		
4.6	The Scale must have inbuilt rechargeable battery backup		
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 Power Supply, Climate, Temperature, Humidity, etc.		
6.2	Power supply: 220 – 240 VAC, 50Hz Single Phase fitted with appropriate plug. The power cable must be at least 3 metre in length.		
7	**Standards and Safety Requirements**		
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007.		
8	**User Training**		
8.1	Must provide user training (including how to use and maintain the equipment).		
9	**Warranty**		
9.1	Comprehensive warranty for 1year.		
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) / service manual in English		

30. AMBU bag with reservoir bag

S.N.	Purchaser's Specifications		Bidder's Remarks
	Bag Valve Mask (BVM)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.2	An Ambu Bag (also known as a Bag Valve Mask or BVM or Ambu bag) is a hand-held device used to provide ventilation to a patient who is not breathing or who is breathing inadequately.		
2	**Operational Requirements**		
2.1	It shall be self-inflatable and must have pop up valve (non-return valve), attachment for oxygen tube & oxygen reservoir.		
3	**System Configuration**		
3.1	Ambu bag, complete unit.		
4	**Technical Specifications**		
4.1	Bag must be made up of medical grade silicon, latex free double layered which retain sensitivity and it must be resistant to rough use.		
4.2	Inlet end of the bag must have separate port for Oxygen supplement.		
4.3	Outer port must be such that re-breathing valve or non-return valve can be attached.		
4.4	Must be supplied with Oxygen reservoir bag of 2000ml and shall deliver tidal volumes of 500-800ml		
4.5	It shall be autoclaveable.		
4.6	It shall be adaptable to all type of facemasks.		
4.7	It shall come with appropriate sized facemasks.		
5	**Accessories, spares and consumables**		
5.1	Set to be supplied in a heavy duty, re-sealable plastic pouch or clear top plastic box.		
6	**Operating Environment**		
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
7	**Standards and Safety Requirements**		
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
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, Inspection and Commissioning**		
11.1	Must supply preassembled unit ready to use.		
12	**Documentation**		
12.1	User's manual shall be supplied in English.		

31. Haemodialysis Unit

S.N.	Purchaser's Specifications	Bidder's Offer
	Haemodialysis Machine	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	The haemodialysis unit shall be microprocessor control and capable of providing the following features:	
1.2	Acetate and bicarbonate dialysis with UF accuracy of +/- 1%	
1.3	Volumetric ultrafiltration	
1.4	Sodium and UF profilings	
	Built-in clearance monitoring for real time measurement of effective urea clearance (K) and plasma sodium (Na) for therapy assessment.	
	Built-in blood pressure monitoring for measuring the patient non-invasive blood pressure and pulse rate automatically.	
2	The haemodialysis unit shall have an enlarged and high resolution LCD colour screen for dialysis data display.	
3	The haemodialysis unit shall have a multi-color traffic light located on the top of machine monitor indicating the treatment status.	
4	The keyboard function keys and LCD color display shall provide an immediate overview of the machine status for treatment supervision.	
5	The haemodialysis machine should display informative and context related operator guidance, warning messages and alarm reports.	
6	**The haemodialysis machine should include following safety features**	
6.1	Closed System Design	
6.2	Volumetric Ultrafiltration	
6.3	Volumetric Concentrate Dilution	
6.4	Startup test	
6.5	Self test during treatment	
7	The haemodialysis unit shall have an adjustable arterial blood pump flow rate ranging from 15ml/min to 600ml/min. The unit shall be capable of calculating effective blood flow rate and display in a real-time basis during dialysis automatically.	
8	The haemodialysis unit shall have an adjustable arterial blood pump segment(both for pediatric and adult) for bloodline diameter from 2mm to 10mm.	
9	The haemodialysis machine shall have diagnostic programme for checking individual valves, pumps, and closed loop tightness.	
10.	The haemodialysis machine shall have user-selectable dialysate flow rate of 0,300,500, 800 ml/min.	
11	The haemodialysis unit shall have adjustable by setting the sodium concentration. The conductivity measurement range should be 12.8 to 15.7 mS/cm	
12	The haemodialysate unit shall have temperature control range from 35.0 to 40.0 degree Centigrade and temperature alarm limits of 33.5 to 40 degree Centigrade.	
13	The haemodialysis machine shall have the following Volumetric Ultrafiltration Control	
13.1	Control Range : 0 to 4L/hr	
13.2	UF Volume: 0 to 9.99L adjustable in 1ml increment.	
13.3	Treatment time: adjustable upto 9 hours 59 min in 1 min increment	
13.4	Isolated ultrafiltration process shall be provided.	
14	The haemodialysis unit shall be capable of online preparation of bicarbonate dialysis Fluid	
15	The haemodialysis unit shall have a hygienic connection for the ultrapure	

S.N.	Purchaser's Specifications	Bidder's Offer
	dialysate fluid filter having endotoxin retention capacity not less than 10^6. The unit shall have to provide a reminder message as the end of filter's service life or maximum number of treatments is about to be reached.	
16	The measurement of effective urea clearance, dialysis dose (Kt/V) and plasma sodium shall be performed in non-invasive, real time mode without additional disposable required during the treatment.	
17	The haemodialysis unit shall be able to operate and monitor the extracorporeal circuit without interruption for at least 15 min. in case of AC power failure by battery backup.	
18	Concentrate Pump, UF Pump construction shall be stepper motor with diagram.	
19	The haemodialysis unit shall have centrally located function keys for easy use.	
20	**The haemodialysis unit shall have the following features with regards to disinfection and cleaning**	
20.1	Both chemical and heat disinfection shall be performed.	
20.2	Sodium hypochlorite, diluted formaldehyde or paracetic acid may be used as disinfectant	
20.3	Decalcification shall be possible by using citric acid.	
20.4	Various programmable cleansing cycles can be provided with different phases and timings in accordance with different disinfectants.	
20.5	One-touch fully automatic operation including: pre-rinse, chemical-intake for combined disinfection & decalcification, post-chemical mandatory rinse, and automatic power-off, without extra end-user handling during the whole disinfection process.	
21	**The haemodialysis unit shall have the build in non-invasive device for measuring the patient blood pressure automatically with following features:**	
21.1	Measuring Range	
21.1.1	Cuff Pressure Range :10-325mmhg or wider choice	
21.1.2	Systolic Range : 30-280mmHg or wider choice	
21.1.3	MAP Range: 20-255mmHg or wider choice	
21.1.4	Diastolic Range: 10-240mmHg or wider choice	
21.1.5	Pulse rate range : 20-245/min or wider choice	
21.2	Alarm Values	
21.2.1	Systolic Range :90& 165 mmHg	
21.2.2	MAP Range: 70& 120mmHg	
21.2.3	Diastolic Range: 50 & 100mmHg	
21.2.4	Pulse range: 40& 150/min	
22	**User/Client Certificate**	
22.1	The bidder must submit certificate confirming the satisfactory performance certificate from user community of the offered model/manufacturer of Haemodialysis machines from at least 6 hospitals/clinics/centres in Nepal. The certificates should be printed on respective hospital's/clinic's/center's letter head, duly signed and stamped by authorized person. Failure to submit the user/client certificate will result in rejection of bid.	
23	**Training Requirement**	
	The bidder must provide separate class room training followed by practical sessions for clinical issues and operation of the machine to the user preferably before the supplied machine are brought into operation.	
	The bidder must provide technician training about the basic technical issues of the machine to the technical person.	
	Training for the User shall be separately included followed by practical session for the clinical issues and operation of the machine.	

S.N.	Purchaser's Specifications	Bidder's Offer
24	**Spares Availability**	
	The bidder shall have ready stock of necessary parts including but not limited to cards, pumps, valves, motors, sensors, and filters for immediate replacement of faulty parts during breakdowns.	
25	The bidder shall confirm the availability of specialized tools (Calibration and other) required for preventive, routine maintenance of offered machine.	
26	**Startup Disinfectant**	
	The bidder shall provide one canister of recommended disinfectant for each machine supplied as a startup consumable.	
27	**Manuals**	
	The bidder shall include one set each operating manual along with the machine. Technical manual should be provided to each of the participant of the technical training.	
28	**Installation**	
	The bidder shall install all the machines without any extra cost and shall submit the installation report along with the measurements and set up detail.	
29	**Quality Assurance Certificate**	
	The bidder shall submit the quality assurance certificate along with the bid. Products with EC/TUV shall be preferred.	
	Must submit ISO13485:2003/AC:2007	
30	**Warranty**	
	2 years of complete maintenance of labour & spares from the date of installation. Should be additional 2 years complete comphrensive and preventive maintenance (spares not included).	

32. Blood Gas Analyzer

S.N.	Purchaser's Specifications		Bidder's Offer
	Blood Gas Analyzer (ABG Machine)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Blood gas analyzers are used to measure blood gases,		
	electrolytes, pH values and biochemical parameters		
	of the blood		
2	**Operational Requirements**		
2.1	Fully automatic, upgradeable, fast		
	Analyzer.		
3	**System Configuration**		
3.1	Fully automatic Blood Gas Analyzer with sensor Cassette and built in printer.		
4	**Technical Specifications**		
4.1	Essential Measured parameters; pH, pCO2, pO2,		
	cNa+, cK+, Ca++, cCl-, cLac, Hct . All theseparameters must be measured simultaneously.		
4.2	**Calculated parameters must include** cHCO3 -(P), cBase(B), cBase(B,ox), cBase(Ecf), cBase(Ecf,ox), cHCO3 -(P,st), ctCO2(P), ctCO2(B), cCa2+(7.40), Anion Gap (K+), Anion Gap, ctO2, ctHb, sO2, pO2(A), pO2(a/A), pO2(A–a), RI, mOsm		
4.3	Sample volume : maximum 70 µL		
4.4	Sample type: whole blood and capillary		
4.5	Fast analysis time – less than 115 secs		
4.6	Fully automatic liquid solution calibration of all parameters at		
	user-defined intervals without the use of Gas		
	calibrated reagents, external gases, tanks or		
	Regulators		
4.7	Continuous reagent level monitoring.		
4.8	Data display on well-illuminated, adequate size LCD		
	colour touch screen display of more than 8"(inches).		
4.9	Data print out on built in graphic printer.		
4.1	Built in auto Quality control facility		

4.11	Automatic result processing, test ordering and	
	transmission to the LIS/HIS system(laboratory	
	Information System/Hospital Information System)	
4.12	Must come with at least 2 USB ports , Barcode reader ,Serial line RS232 , RJ45 Ethernet Port And Must have data capacity of 500 for patient results, system cycle results ,manual QC results and of 1500 for event records & security records.	
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	
6	**Operating Environment**	
6.1	The system offered shall be designed to be stored	
	and to operate normally under the conditions of the	
	purchaser's country. The conditions include Power	
	Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with	
	appropriate plug. The power cable must be at least 3	
	metre in length.	
7	**Standards and Safety Requirements**	
7.1	Must submit ISO13485:2003/AC:2007 for Medical	
	Devices **AND**	
7.2	CE (93/42 EEC Directives) And 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 1 years after	
	acceptance.	
10	**Maintenance Service During Warranty Period**	
10.1	During the warranty period supplier must ensure	

	planned preventive maintenance (PPM) along with	
	corrective/breakdown maintenance whenever	
	required.	
11	**Installation and Commissioning**	
11.1	The bidder must arrange for the equipment to be	
	installed and commissioned by certified or qualified	
	personnel; any prerequisites for installation to be	
	communicated to the purchaser in advance, in detail.	
12	**Documentation**	
12.1	User (Operating) manual in English	
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.	

33. Resuscitation Cart

S.N.	Purchaser's Specifications		Bidder's Offers
	Resuscitation Cart		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Resuscitation 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	Resuscitation Cartportable with storage units and complete set.		
4	**Technical Specifications**		
4.1	Stainless steel top and shelf, height adjustable, twin hook/loop, IV pole assembly		
4.2	Lockable storage units – at least5 drawers (stainless steel or moulded plastic)**.**		
4.3	Fully, 360 deg. swivel castors/wheels, with at least one castor/wheel to have locking/brake mechanism.		
4.4	Top shelf to have stainless steel guard rail above surface.		
4.5	Fitted with epoxy powder coated oxygen cylinder holder.		
4.6	Manual Resuscitator for Infant, Children & Adult		
4.7	Should have Manually Operated Suction (Foot Suction) Suitable for Infant, Children & Adult.		
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		

S.N.	Purchaser's Specifications	Bidder's Offers
	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**	
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.	

34. Closed Suction Catheter

S.N.	Purchaser's Specifications		Bidder's Offers
	Closed Suction Catheter		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.3	**Closed suction Catheters** used to clear unwanted mucus build-up from the airways of ventilated or tracheostomy patients without the need to disconnect the patient from the ventilator or aerosol source		
2	**Operational Requirements**		
2.2	Closed Suction Catheter complete set.		
3	**System Configuration**		
3.1	Closed Suction Catheter complete set.		
4	**Technical Specifications**		
4.1	Should be made ofnon-toxic, non-irritant medical grade material.		
4.2	Color coded control valve for easy identification of the catheter size.		
4.3	Lockable thumb end cap prevents inadvertent suctioning		
4.4	Suction catheter tip should be smooth and soft, rounded to prevent mucosal trauma.		
4.5	Should be supplied in sterile pack		
5	**Accessories, spares and consumables**		
5.1	Set to be supplied in a heavy duty, re-sealable plastic pouch or clear top plastic box.		
6	**Operating Environment**		
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
7	**Standards and Safety Requirements**		
7.2	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
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, Inspection and Commissioning**		
11.1	Must supply preassembled unit ready to use.		
12	**Documentation**		
12.1	User's manual shall be supplied in English.		

35. Glucometer with test strips

S.N.	Purchaser's Specifications		Bidder's Offers
	Glucometer with test strips		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.4	Glucometer is used to measure blood glucose levels		
2	**Operational Requirements**		
2.3	Glucometer with test strips, complete set		
3	**System Configuration**		
3.1	Glucometer with test strips, complete set		
4	**Technical Specifications**		
4.1	Should be a hand held, Light weight with replaceable battery		
4.2	Should have LCD display with reading range/linearity from approx. 20 to 600 mg/d.		
4.3	Reading time should be of less than 10 seconds		
4.4	Should use a minimum blood sample less than 1.5µl		
4.5	Should have a minimum memory of approx. 50		
4.6	Strips should be available in the local market		
5	**Accessories, spares and consumables**		
5.1	Test strips –200pieces		
5.2	Covering case – 1no.		
6	**Operating Environment**		
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
7	**Standards and Safety Requirements**		
7.3	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
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, Inspection and Commissioning**		
11.1	Must supply preassembled unit ready to use.		
12	**Documentation**		
12.1	User's manual shall be supplied in English.		

36. Non-invasive ventilator mask

S.N.	Purchaser's Specifications		Bidder's Offers
	Non-invasive ventilator mask		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.5	Non-invasive ventilator masks used for non-invasive ventilation therapy		
2	**Operational Requirements**		
2.4	Non-invasive ventilator mask complete set.		
3	**System Configuration**		
3.1	Non-invasive ventilator mask complete set.		
4	**Technical Specifications**		
4.1	Non-invasive ventilator masks should cover the nose and mouth		
4.2	Should provide maximum comfort and effective seal		
4.3	Must be designed to fit with common hospital breathing circuits		
5	**Operating Environment**		
5.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
6	**Standards and Safety Requirements**		
6.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
7	**User Training**		
7.1	Not applicable.		
8	**Warranty**		
8.1	Comprehensive warranty for 1 year after acceptance.		
9	**Maintenance Service during Warranty Period**		
9.1	Standard warranty conditions are applicable.		
10	**Installation, Inspection and Commissioning**		
10.1	Must supply preassembled unit ready to use.		
11	**Documentation**		
11.1	User's manual shall be supplied in English.		

37. Oropharyngeal Airway different sizes

S.N.	Purchaser's Specifications		Bidder's Offers
	Oropharyngeal Airway different sizes		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.6	Oropharyngeal Airway used to maintain or open a patient's airway.		
2	**Operational Requirements**		
2.5	Oropharyngeal Airway complete set.		
3	**System Configuration**		
3.1	Oropharyngeal Airway complete set.		
4	**Technical Specifications**		
4.1	Should be manufactured with medical grade material		
4.2	Should have color coded bite locks for quick identification.		
4.3	Sizes from 10-100mm in a set		
4.4	Should be provided in plastic case		
5	**Operating Environment**		
5.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
6	**Standards and Safety Requirements**		
6.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
7	**User Training**		
7.1	Not applicable.		
8	**Warranty**		
8.1	Comprehensive warranty for 1 year after acceptance.		
9	**Maintenance Service during Warranty Period**		
9.1	Standard warranty conditions are applicable.		
10	**Installation, Inspection and Commissioning**		
10.1	Must supply preassembled unit ready to use.		
11	**Documentation**		
11.1	User's manual shall be supplied in English.		

38. Nasopharyngeal Airway

S.N.	Purchaser's Specifications		Bidder's Offers
	Nasopharyngeal Airway		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.7	Nasopharyngeal Airway is a tube that is designed to be inserted into the nasal passageway to secure an open airway		
2	**Operational Requirements**		
2.6	Nasopharyngeal Airway complete set.		
3	**System Configuration**		
3.1	Nasopharyngeal Airway complete set		
4	**Technical Specifications**		
4.1	Should be manufactured with medical grade material		
4.2	Should be used on patients to maintain an airway		
4.3	Should come in sterile package		
4.4	Should have flared end		
5	**Operating Environment**		
5.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
6	**Standards and Safety Requirements**		
6.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
7	**User Training**		
7.1	Not applicable.		
8	**Warranty**		
8.1	Comprehensive warranty for 1 year after acceptance.		
9	**Maintenance Service during Warranty Period**		
9.1	Standard warranty conditions are applicable.		
10	**Installation, Inspection and Commissioning**		
10.1	Must supply preassembled unit ready to use.		
11	**Documentation**		
11.1	User's manual shall be supplied in English.		

39. Venturi Mask (Different)

Fio2

S.N	Purchaser's Specifications	Bidder's Offer
	Venturi Mask (Different) Fio2	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description Of Function**	
1.1	Venturi Mask is used to deliver a known oxygen concentration to patient on control oxygen therapy	
2	**Technical Specifications**	
2.1	Material should be medical PVC	
2.2	Should have adjustable nose clip	
2.3	Oxygen concentration should be 24-50%	
2.4	Should available with anticrush tubing	
2.5	This device should be available in different size (size should be clearly mentioned in bidder's offer)	
3	Certification should be provided if applicable (ISO / CE)	
4	User training/ Technician training if applicable	

40. Ventilating Face Mask (Anesthetic Mask) Different Size

S.N	Purchaser's Specifications	Bidder's Offer
	Ventilating Face Mask (Anesthetic Mask) Different Size Venturi Mask (Different) Fio2	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description Of Function**	
1.1	It is used in connection with medical equipment such as ventilator, oxygen machine, anesthetic apparatus and emergency breathing apparatus.	
2	**Technical Specifications**	
2.1	Material should be medical grade PVC.	
2.2	Transparent in colour.	
2.3	Should be latex free.	
2.4	Should be hook, ring without check valve.	
2.5	This device should be available in different size (size should be clearly mentioned in bidder's offer).	
3	Certification should be provided if applicable (ISO / CE).	
4	User training/ Technician training if applicable.	

41. **Refrigerator**

S.N.	Purchaser's Specifications		Bidder's Offer
	Refrigerator		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Refrigerator 185ltr capacity		
2	**Operational Requirements**		
2.1	Floor standing model, solid door with lock and handle supplied with two keys.		
3	**System Configuration**		
3.1	The system consists of: • Refrigerator CFC Free • PUF insulation • Floor standing model • Over voltage protection		
4	**Technical Specifications**		
4.1	Double Compartment: • Freezing/ice making compartment. • Refrigerator		
4.2	Frost Free		
4.3	Polyurethane (PUF) insulation.		
4.4	Refrigerant Gas: CFC free		

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S.N.	Purchaser's Specifications	Bidder's Offer
4.5	Over voltage protection: To be supplied complete with mains electric, over-voltage protection unit.	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** Adjustable shelves, chiller tray, temperature controller, refrigerator thermometer, auto lamp on/off feature.	
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 Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 – 240VAC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be at least 3 metres in length.	
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	Comprehensive warranty for 1 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.	

42. Fluid Warmer

S.N.	Purchaser's Specifications		Bidders Offer
	Blood Warmer		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Fluid Warmer is used for warming fluids, crystalloid, colloid or blood product, prior to being administered to body temperature level.		
2	**Technical Specifications**		
2.1	Flow Rates should be from kvo to 150ml/min.		
2.2	Should have temperature range of 36ºC to 42ºC		
2.3	Should be easily transportable		

42. Fluid Warmer

S.N.	Purchaser's Specifications	Bidders Offer
2.4	Should able to attach to IV pole and standard electrical sockets	
2.5	Should use dry heat technology	
2.6	Should have audible and visual alarms for Temperature	
2.7	Should have automatic cutoff for set temperature	
2.8	Should be easy to use and to clean	
2.9	Warm up time should be less than 60 seconds	
2.1	Consumables should have built in filter	
5	**Accessories, spares and consumables**	
5.1	**Accessories:** disposable adult warming sets -5 disposable pediatric warming set-1	
5.2	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	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.	
6.2	Power supply: 220-240 VAC, 50Hz single phase as appropriate fitted with appropriate plug. The power cable must be at least 3 metre in length.	
7	**Standards and Safety Requirements**	
7.1	Should submit ISO 9001 or ISO 13485:2003/AC: 2007 or CE if applicable.	
8	**User Training**	
8.1	Not applicable.	
9	**Warranty**	
9.1	Not applicable.	
10	**Maintenance Service During Warranty Period**	
10.1	Not applicable.	
11	**Installation and Commissioning**	
11.1	Not applicable.	
12	**Documentation**	
12.1	User's manual in English	

43. **Physiotherapy chest vibrator**

S.N.	Purchaser's Specifications		Bidder's Offers
	Physiotherapy chest vibrator		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.8	Physiotherapy chest vibrator used to perform postural draining to help COPD patient clear mucus from their airways.		
2	**Operational Requirements**		
2.7	Physiotherapy chest vibrator complete set.		
3	**System Configuration**		
3.1	Physiotherapy chest vibrator complete set		
4	**Technical Specifications**		
4.1	Should be portable and light weight		
4.2	Speed should be approx. 4500rpm		
4.3	Maximum temperature approx. 55^0C		
5	**Operating Environment**		
5.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Climate, temperature and relative humidity.		
5.2	Power supply – 220V, 50Hz		
6	**Standards and Safety Requirements**		
6.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**		
7	**User Training**		
7.1	Not applicable.		
8	**Warranty**		
8.1	Comprehensive warranty for 1 year after acceptance.		
9	**Maintenance Service during Warranty Period**		
9.1	Standard warranty conditions are applicable.		
10	**Installation, Inspection and Commissioning**		
10.1	Must supply preassembled unit ready to use.		
11	**Documentation**		
11.1	User's manual shall be supplied in English.		

44. Intermittent pneumatic Compression Device

S.N	Purchaser's Specifications	Bidder's Offer
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Functions**	
1.1	Intermittent pneumatic compression is a therapeutic technique used in medical devices that include an air pump and inflatable auxiliary sleeves, gloves or boots in a system designed to improve venous circulation in the limbs of patients who suffer edema or the risk of deep vein thrombosis or pulmonary embolism	
2	**Technical Specifications**	
2.1	Should have LCD Screen,touch screen operating, real-time display the parameter of treatment status.treatment part, integrated mode, remaining time, true pressure of every cavity, Inflatable speed etc.	
2.2	Treatment time- 1 min-99 min, adjustable	
2.3	Pressure Range - 0-200mmHg	
2.4	Pressure Holding Time 1s-6s	
2.5	Cycle Interval Time 1s-6s	
2.6	Power Supply AC220V/50HZ	
3	Certification should be provided if applicable (ISO/ CE)	
4	User training/ Technician training if applicable	

45. Forced Air Warmer Device (Patient Warmer Device)

S.N.	Purchaser's Specifications		Bidders Offer
	Forced air warmer device		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1	**Description of Function**		
1.1	Forced Air Warming Device is used for the prevention hypothermia.		
2	**Operational Requirements**		
2.1	For the safe and controlling warming of patients in the Operating Theatre, Emergency Department, ICU and warm setting.		
3	**Technical Specifications**		
3.1	It must be compact and robust and Unobstructive.		

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45. Forced Air Warmer Device (Patient Warmer Device)

S.N.	Purchaser's Specifications	Bidders Offer
3.2	The unit must be lightweighted.	
3.3	The unit should have a handle and there should be a mechanism to secure to a drip stand or bed.	
3.4	The control panel must be well sealed preventing entry of fluids to the internal working and circuits of the unit.	
3.5	The Forced air warmer musr have at least 3 selectable temperature settings as follows: i) Low: set value between 30-34ºC ii) Medium: set value between 35-39ºC iii) High: set value between 39-43ºC Accuracy must be within 1.5ºC for all setting.	
3.6	The unit must reach the selected temperture within 60 seconds of the selection of the temperature.	
3.7	The unit must indicate the selected set temperature has been reached and thereafter maintain the selected set temperature.	
3.8	The unit must incorporate visual and audible temperature discrepancy alarms.	
3.9	The air supply must incorporate a 0.3 micron (or smaller) HEPA filter. Airflow of at least 19 l/sec must be generated	
3.1	One re usable hose must be supplied with the unit with at least 1.5m and can be easily removal for cleaning or replacement.	
3.11	Forced Air Warmer device Blankets must be disposable, lightweight, soft, radiolucent and latex-free.	
3.12	The Blankets must allow even heat distribution to the patient without the creation of hotspots.	
3.13	There must be a ramge of available blankets.	
4	**Accessories, spares and consumables**	
4.1	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.	
5	**Operating Environment**	

45. Forced Air Warmer Device (Patient Warmer Device)

S.N.	Purchaser's Specifications	Bidders Offer
5.1	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.	
5.2	Power supply: 220-240 VAC, 50Hz single phase as appropriate fitted with appropriate plug. The power cable must be at least 3 metre in length.	
6	**Standards and Safety Requirements**	
6.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007.	
6.2	CE or USFDA approved product certificate.	
7	**User Training**	
7.1	Must provide user training (including how to use and maintain the equipment).	
8	**Warranty**	
8.1	Warranty for 2 years.	
9	**Maintenance Service During Warranty Period**	
9.1	Standard warranty conditions are applicable.	
10	**Installation and Commissioning**	
10.1	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.	
11	**Documentation**	
11.1	User (Operating) manual in English.	
11.2	Service (Technical / Maintenance) manual in English.	

46. Bedside Locker

S.N	Purchaser's Specifications	Bidder's Offer
	Bedside Locker	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Functions	
1.1	Simplify the work of care giver and it enhances comfort and autonomy of the patient in terms of accessability, convenience and storage capacity	
2	**Technical Specifications**	
2.1	Over all size should be approx L 40 x W 40 x H82 cms.	
2.2	Should be Machine pressed sheet box with door of heavy guage.	
2.3	Should have CRC tubular legs fitted with PVC stump	
2.4	Should have Stainless steel top.	
2.5	Should be Pre-treated and epoxy powder coated.	
3	Certification should be provided if applicable (ISO/ CE)	
4	User training/ Technician training if applicable	

47. Mayo Table

S.N	Purchaser's Specifications	Bidder's Offer
	Mayo Table	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Functions**	
1.1	Mayo Instrument table is an ideal instrument table for most surgical procedures	
2	**Technical Specifications**	
2.1	Instrument table Mayo with sterilizable stainless steel tray.	
2.2	Height adjustable with telescopic rod with knob from 750 mm to 1400 mm	
2.3	Stainless Steel high polish finish.	
2.4	Mounted on 4 x 50 mm (approx) anti static swivel castors.	
3	Certification should be provided if applicable (ISO/ CE)	
4	User training/ Technician training if applicable	

48. **Infrared Non Touch Hand Thermometer**

S.N.	Purchaser's Specifications	Bidder's Offers
	Infrared Non Touch Hand Thermometer	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	**Requirements**	
	- Purpose: Non-contact temperature sensing of human body, ideal for individual screening - Measurement Range: At least measure 93.5 F to 109 F - Accuracy: not less than ±0.2℃ - Operating Temperature: Human body mode 15^0 C to 40^0C - Display type: LCD with backlight - Response Time: Not more than 3 Seconds, with beep - Power Supply: 3 Volt DC (battery operated) - Accessories: extra battery 1 pair - Warranty: minimum 2 years	

49.Gum Elastic Bongie

S.N	Purchaser's Specifications	Bidder's Offer
	Gum Elastic Bongie	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Functions**	
1.1	The bougie is device which allows a technique of intubating a patient's airway.	
2	**Technical Specifications**	
2.1	should be made from low density polyethylene to provides proper stiffness (ease of insertion)	
2.2	Should have Coude tip to facilitates insertion in adults	
2.3	Should be Single use	
2.4	Should be Latex Free	
2.5	Should be calibrated (distance of insertion easily observed for safety)	
3	Certification should be provided if applicable (ISO/ CE)	
4	User training/ Technician training if applicable	

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50. Intubating Stylets

S.N	Purchaser's Specifications	Bidder's Offer
	Intubating Stylets	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Functions**	
1.1	Intubating Stylets helps to reduce friction for easy insertion into and removal from endotracheal tubes	
2	**Technical Specifications**	
2.1	Should have Plastic covering extends beyond stylet to minimize the risk of tracheal traum	
2.2	Should be indivivually packed, sterile	
2.3	Should be disposable and single use	
2.4	Should be latex free	
3	Certification should be provided if applicable (ISO/ CE)	
4	User training/ Technician training if applicable	

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** Note: The bidder shall mention clause by clause comment of the required specification. The bidder shall state:-*

a. ***"FULLY COMPLIANT"*** if the item offered fully meet the quotation requirement.

b. ***"PARTIALLY COMPLIANT"*** if the item offered meet the requirement partially. The bidder shall state the reason why the offer is partially compliant. In such cases, the bidder shall clearly mention the extent to which other specifications are offered.

c. ***"NON COMPLIANT"*** if the item cannot meet the requirements. The bidder shall also state reasons for it.

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Section V. Sample Forms

1. Price Quotation and Price Schedules

Date:

To: *[name and address of the Purchaser]*

Gentlemen and/or Ladies:

Having examined the Direct Purchase (DP) documents, we the undersigned, offer to supply and deliver ***[description of goods and services]*** in conformity with the said DP documents for the sum of ***[total amount in words and figures]*** or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Price Quotation.

We undertake, if our Price Quotation is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

We agree to abide by this price Quotation for a Period of 4***5*** days from the last date fixed for submission of the Price Quotation..

Until a formal Contract is prepared and executed, this Price Quotation, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Price Quotation you may receive.

Dated this _____ day of _____ 20_____.

_____ _____

[signature] *[in the capacity of]*

Duly authorized to sign Price Quotation for and on behalf of _____

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2. Price Schedule

Name of Supplier _____. _____. Page _ of ___

Item No	Description	Unit	Quantity	Unit price (Site Delivery)	Total price per item (cols. 4 x 5)	Remarks
1	Intensive Care Bed	set	20			
2	Infusion Pump	set	20			
3	Syringe Pump	set	20			
4	IV Stand	set	40			
5	Monitor with intra-arterial BP monitoring (IBP) and Central Monitor system	set	20			
6	Fixed Ventilator	set	8			
7	Portable ventilator	set	2			
8	Defibrillator	set	1			
9	Portable x-ray	set	1			
10	Air mattress	set	20			
11	Patient Trolley	set	2			
12	Wheel chair	set	4			
13	Bi pap machine	set	2			
14	Nebulizer	set	8			
15	Suction Machine	set	8			
16	X ray view box	set	4			
17	ECG machine	set	1			
18	Bain circuit	set	4			
19	T piece	set	8			
20	Laryngoscope Set	set	2			
21	Tracheostomy tube Different size	set	1			
22	Portable USG	set	1			
23	ET tube different size with subglottic suction plug Port	set	30			
24	Pulse oximeter	set	3			
25	Stethoscope	set	20			
26	BP apparatus	set	4			
27	Electric needle destroyer	set	2			
28	Autoclave 800 Ltr.	set	1			
29	Electronic weighing machine	set	1			

30	AMBU bag with reservoir bag	set	4			
31	hemodialysis unit	set	1			
32	ABG Machine	set	1			
33	Resuscitation cart	set	2			
34	Closed Suction catheter	set	30			
35	Glucometer With Strips	set	2			
36	Noninvasive Ventilator Mask	set	12			
37	oropharyngeal airway Different Sizes	set	30			
38	nasopharyngeal airway	set	10			
39	Venturi Mask (Different) Fio2	set	20			
40	Ventilating Face Mask (Anesthetic Mask) Different Size	set	10			
41	Refrigerator 185 Ltr	set	2			
42	Blood warmer / Fluid Warmer	set	5			
43	Physiotherapy Chest Vibrator	set	2			
44	Intermittent Pneumatic Compression Device	set	2			
45	Forced Air Warmer Device (patient warmer device)	set	3			
46	Bedside Locker	set	20			
47	Mayo Table	set	20			
48	infrared thermometer (Non Touch)	set	5			
49	Gum elastic Bongie	set	2			
50	Intubatins Stylets	set	5			
			Total Amount			
			Add 13% Value Added Tax			
			Total Including VAT			

Total Price ……. ……(in words)

Signature of Bidder _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail

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3. Form of Agreement

THIS AGREEMENT made the _____ day of _____ 20_____ between ***[name of Purchaser]*** (hereinafter called "the Purchaser") of the one part and ***[name of Supplier]*** of *[city and country of Supplier]* (hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser invited Priced Quotation for certain goods and ancillary services, viz., ***[brief description of goods and services]*** and has accepted a Price Quotation by the Supplier for the supply of those goods and services in the sum of ***[contract price in words and figures]*** (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
    a. Price Quotation Form and the Price Schedule submitted by the Supplier;
    b. The Schedule of Requirements;
    c. The Technical Specifications;
    d. The Conditions of Contract; and
    e. The Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

On behalf of the Purchaser	On behalf of the Supplier
Name:	Name:
Designation:	Designation:
Sign:	Sign:
Seal:	Seal: