No.COL/COM/228/12/2010 High Commission of India Colombo

27/03/2011

Tender Notice for Supply and Installation of Medical Equipment to Kilinochchi and Mullaitivu General Hospitals

Tender Notice

High Commission of India, Colombo invites sealed quotations under the two bid system (technical and financial) from eligible bidders for supply and Installation of Medical equipments to Kilinochchi and Mullaitivu General Hospitals

Bidders may purchase the Tender Documents from the address mentioned below, against payment of SLR 1,500.00 (non-refundable) in cash or in the form of Demand Draft drawn in favour of High Commission of India, Colombo. These can also be downloaded from the Mission's website www.hcicolombo.org, in which case a draft for SLRs.1,500/- drawn in favour of High Commission of India towards the fee of tender documents may be enclosed with the technical bid.

Address for purchase of Document: **Attaché (Commerce)**High Commission of India
36-38, Galle Road, Colombo-03

Tender Date: 27 March 2011

Pre-Bid Meeting: 08 April 2011 (1000 hrs)

Last Date of Submission of Bids: 18 April 2011 (1500 hrs)

Opening of Technical Bids: 18 April 2011 (1530 hrs)

Bids (technical and financial) may be submitted in a sealed cover marked "Tender for supply and Installation of Medical equipments to Kilinochchi and Mullaitivu General Hospitals" so as to reach latest by 1500 hrs on 18 April, 2011. All tenders received after the deadline will be rejected.

The technical bid and the financial bid documents (**in duplicate**) should be sealed by the bidder in separate covers duly superscribed thus and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed. The bid may be deposited with the undersigned at the High Commission of India. The bid may include all the details and meet terms and conditions as listed in the tender documents.

The sealed quotations (technical bids) will be opened in presence of authorized representatives of bidders <u>at 1530 hrs on 18/04/2011</u> in the High Commission of India.

Attaché (Commerce) High Commission of India 36-38, Galle Road, Colombo 3

Terms and Conditions

- 1. Sealed quotations may be submitted under the two bid system (technical and financial) by manufacturers or authorized dealers/sales agents of items mentioned in **Annexure A** (as per listed specifications) based in Sri Lanka.
- 2. The supplier needs to have service outlets in the Island, particularly in Northern Province.
- 3. A certificate guaranteeing that adequate amount of spare parts will be available for <u>at least seven years</u> including warranty period may be provided along with the technical bid.
- 4. Bidders are requested to submit their bid documents (technical and financial) <u>in duplicate</u> in a sealed cover marked "Tender for supply and Installation of Medical equipments to Kilinochchi and Mullaitivu General Hospitals" so as to reach latest by 1500 hrs on 18 April, 2011. The technical bid and financial bid should be sealed by the bidder in separate covers duly superscribed thus and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed.
- 5. The bid may be submitted to Attaché (Commerce), High Commission of India, 36-38, Galle Road, Colombo 3 and acknowledgement obtained.
- 6. **OPENING OF BIDS**: The sealed quotations (technical bids) will be opened in presence of authorized representatives of bidders at **1530 hrs on 18/04/2011** in the High Commission of India. After scrutiny of technical bids by the Tender Evaluation Committee, financial bids of only those bidders who qualify the technical evaluation will be opened at a time and date to be intimated later.
- 7. **EARNEST MONEY DEPOSIT (EMD)**: Technical bids should contain EMD (based on the package bid for- please see paragraph 8 below and also Annexure A) in the form of a DD/PO drawn in favour of High Commission of India, Colombo. Alternatively, a standard bid guarantee (format as in Annexure D) issued by a commercial bank or an insurance agency approved by the Central Bank of Sri Lanka, in favour of the High Commission of India, Colombo of this amount may be provided. The Bid Guarantee of all unsuccessful bidders will be released after the tender is finalized. The Bid Guarantee should be valid for a minimum period of 90 days from the date of opening of tenders. Earnest Money Deposit/ Bid Guarantee must be submitted with the technical bids (in the same

envelope) otherwise the bid will be rejected.

8. **PACKAGES FOR BIDDING:** Bidders may bid for one or more of the packages as listed in **Annexure A**. The EMD payments may be made accordingly.

Package	EMD (in Sri Lankan rupees)
ONE (Diagnostic and	500,000
Laboratory Equipment)	
TWO (Operation	500,000
Theatre Equipment)	
THREE (ICU	1,000,000
Equipment & Others)	
Any two of the above	As applicable
All three packages	2,000,000

- 9. **VALIDITY AND CURRENCY OF BIDS:** All bids shall hold good for acceptance for a minimum period of <u>90 days</u> from the date of closing of tender. The price quoted in the Price Schedule Form (at **Annexure B**) should be in Sri Lankan Rupees and written clearly in ink or typewritten. The total amount of the bid should be given in words as well as in figures.
- 10. **PRICE QUOTATIONS**: The price as quoted in the Price Schedule Forms (**Annexure B**) should be as of point of delivery. The price both exclusive and inclusive of all taxes, duties and levies etc must be quoted and the taxes, duties and levies etc. as applicable may be quoted separately. The VAT Registration number should be indicated, if registered for VAT. Otherwise, the tender is liable to be rejected. If the bidder is not registered for payment of VAT, a certificate to that effect, obtained from the Commissioner General of Inland Revenue, should be annexed to the tender.
- 11. The bidder may provide the following:

With the Technical Bid:

- (i) Self-attested photo-copy of registration of the company/firm/proprietorship with the concerned Sri Lankan / Indian authorities.
- (ii) Annual Report (where statutorily required to be filed), and Financial Reports for the last 3 years, preferably audited ones.
- (iii) Details of experience in the field of supplying similar items to Government or companies in Sri Lanka or in India
- (iv) Manufacturer's authorization letter authorizing the bidder to

supply the goods.

- (v) Documentary evidence to establish conformity of the goods to the technical specifications in the bidding documents along with the Technical Specification Form (**Annexure A**).
- (vi) Documents and information as required in the Manufacturers Authorization Form (**Annexure C**)
- (vii) All equipment offered should be established brands with a previous history of supply in Sri Lanka or India. Bidders should either be ISO 9001 certified Medical Equipment companies registered with the Ministry of Heath, Government of Sri Lanka or with relevant authorities of Government of India. A certified copy of such registration should be submitted with the technical bid.
- (viii) The bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods during the warranty period.
- (ix) EMD as mentioned in paragraph 7 above (the bid will be rejected if the EMD is not submitted in the Technical Bid envelope)

With the Financial Bid:

- (i) Price quotation in the Price Schedule Forms (as in **Annexure B**)
- 12. Any alteration or deletions in the bid should be authenticated by the *full signature* of the bidder.
- 13. WARRANTY: The Supplier shall provide on-site warranty. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period as originally agreed. Suppliers shall ensure the availability of after sales service for a period of at least seven years including warranty period. The warranty period shall be as specified in the technical specifications. Supplier shall also carry sufficient inventories to assure ex-stock supply of consumables and spares in Sri Lanka. All charges with regard to the supply of spare parts, labour, travel, per diem and accommodation to supplier's staff etc. shall be borne by the supplier during the period of warranty. No additional expenditure for services rendered during the above period will be paid.

- 14. **PERFORMANCE GUARANTEE**: The successful bidder shall submit, within <u>fourteen</u> working days after the award of tender, a Performance Guarantee provided by a commercial bank or an insurance agency approved by the Central Bank of Sri Lanka, of an amount equal to ten percent (10%) of the value of order, drawn in favour of the High Commission of India, Colombo for the due execution of the contract within the specified period. The Performance Guarantee should be valid for a period of <u>120 days</u> from the date of award. If the Performance Guarantee is not submitted within <u>14 days</u> of the letter of award, the award will be cancelled and the Guarantee will be forfeited. The EMD of the bidder, whose tender is accepted, will be discharged when the said bidder's Performance Guarantee has been accepted.
- 15. **DELIVERY:** The successful bidder must complete delivery, as stipulated above, of the items within a period of 90 days from the issue of Purchase Order. Payment will be done only after successful supply and installation of equipment at designated places in Kilinochchi and Mullaithivu hospitals. Breakage, if any, in transit during the supply period shall be the responsibility of the supplier and should be replaced free of cost. The exact places and the quantities to be supplied there will be intimated later. If the successful bidder fails to hand over within the stipulated period, liquidated damages @ 1% of the tender amount shall be levied for a delay of each calendar week or part thereof, subject to a maximum of 10%.
- 16. **MODE OF PAYMENT**: Payments will be released only after the items as tendered are handed over/delivered at designated places in Kilinochchi and Mullaitivu District in perfect working condition, to the High Commission of India or its authorized representative and physical verification of the supplies, as also technical verification has been carried out by a competent team authorized by the Government of Sri Lanka/ High Commission of India. Upon completion of delivery, the items will be inspected and defect, shortcomings or non-conformity to specifications, if any, will be brought to the notice of the Bidder who should take immediate action to rectify those **within seven days**.
- 17. **RETENTION MONEY:** Retention money to the extent of 5% of the invoice amount will be retained up to the warranty period or a period of three year whichever is later.
- 18. Withholding Tax will be deducted as per Section 153, 155 and 160 of the Inland Revenue Act. No. 10 of 2006.
- 19. **ACCEPTANCE OF TENDERS:** The Tender Evaluation Committee reserves the right to reject any or all tenders or accept any tender or a part thereof without assigning any reason whatsoever.

Annexure A : Specification for Supplies

Package ONE : Diagnostic and Laboratory Equipment

EMD = 500,000

Nr	Equipment	Specification	The most	Required
	and		appropriate	Number
	Instrument		answer	
1	Colour Doppler Ultrasound Scanner	 01. The Unit shall operate on power supply of 230V +/- 10% 50Hz. 02. Unit shall be a colour Doppler plus B/M mode diagnostic ultra sound system, capable of electronic liner and sector scanning mounted on a mobile stand on casters and consists of the following components; (a) High-resolution 30 cm diagonal TV monitor tiltable and rotatable for user convenience. (b) Four transducers. I. 2.5 – 5.0 MHz. Convex sector electronic probe with scanning width of 60-90 mm. III. 3.0 - 7.5 MHz. Convex sector probe for Paediatric abdomen with scanning width of 30 - 50 mm. IIII. 03 - 7.5 MHz. Electronic linear probe, Steered liner (carotid artery) with scanning width of 50 - 60 mm. IV. Endocavity, transvaginal probe electronic, angled grip probe with 5 - 7.5 MHz probe; 14 - 24 mm range scanning angle 120. (c) Two puncture adopters for above probes Number (b) I and (b) II. (d) Foot switch to freeze image (e) Multiformat camera that takes up 8" x 10" X-ray films and gives at least a 06 image format. (f) Colour video printer. 	Yes No	1
		 (g) Video cassette recorder. 03. Tenderers shall quote separately for the items (components) listed above. 04. There shall be an additional mode-sensitive colour touch command screen for easy selection of advance functions on the control panel. 05. The unit shall be associated and incorporated to the facilities specified below: 	Yes □ No □ Yes □ No □	

		(a) Scanning modes of Linear, convex and colour power doppler.	Yes □ No □	
		(b) Display mode of B-mode M mode and B/M mode and colour Doppler. It shall be possible	Yes \square No \square	
		to display B, M and doppler modes simultaneously. (triplex mode).	103 1110 1	
		(c) Real time continuous wave dynamic focussing.	Yes □ No □	
		(d) User selective display formats of two side by side images in each display mode.	Yes \square No \square	
		(e) Depth selection of not less than 22 cm.	Yes □ No □	
		(f) Measuring facility using calipers with provision for calculations of distance channels (4	Yes □ No □	
		channels) circumference, volume heart rate, gestational age by GS, CRL, BPD, foetal weight, HIP joints angel etc.	103 1110 1	
		(g) Colour doppler flow velocity pressure gradient, half pressure time, pulsating index, resistive index etc.	Yes □ No □	
		 (h) It should be possible to display echo amplitude in B mode and velocity, power amplitude and variance profiles in colour doppler mode. 	Yes □ No □	
		(i) DICOM 3 compatibility.	Yes □ No □	
		(j) Ability for three dimension reconstruction.	Yes □ No □	
		6. System should have facility to diagnose normal 2D image with a high precision image on the same	Yes □ No □	
		screen side by side by using compounding imaging technology and software generate special image		
		sharpening facility for better diagnose of Liver Homogeneity, and the accurate defines the borders and the internal structure of lesions.		
		The following measurements shall be available: distance, area, volume, angle.	Yes □ No □	
		2. The system shall have the following features for M-mode:	Yes □ No □	
		Gain adjustment correlated to B-mode gain.	Yes □ No □	
		Variable sweep speed. Colour palette, gain control and edge enhancement	Yes □ No □	
		07. Facility to connect 03 probes (transducers) simultaneously to the machine shall be available.	Yes □ No □	
		08. Warranty: 36 calendar months from the date of successful commissioning on full parts and labour	100 2110 2	
		basis. Such a warranty shall also include servicing and maintenance during the period of validity.	Yes □ No □	
		Tenderers must specify in detail the means available to them to implement such a warranty.		
2	Video	1. The unit shall operates on mains power supply of 230 V ± 10%, 50 Hz	Yes □ No □	1
_		2. The video Gastrointestinal videoscope shall have the following facilities		.
	Endoscope	 Forward viewing with a field of view not less than 140 0 		
		Observation range should be 3 -100 mm	Yes □ No □	
		The outer diameter of the distal end/ insertion tube less than 8.8 mm	Yes □ No □	
		The outer diameter of the distartion table less than 3.6 mm The inner diameter of the instrument channel not less than 2.6 mm		
		Working length not less than 110 cm	Yes □ No □	
		The bending angle of the tips shall be		
		Up - 210 °, Down – 90 °		
		Right – 100 °, Left – 100 °	Yes □ No □	
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	3. The following accessories shall be supplied with the gastrointestinal videoscope	
	 Biopsy forceps standard - 01 No 	Yes □ No □
	 Mouth Piece – 01 No 	
	 Channel cleaning brush – 01 No 	Yes □ No □
	 Sclerotherapy Needle – 02 Nos 	Yes □ No □
	Biopsy Valve – 10 Nos	
	Air Leakage tester – 01 No	
	Water resistant Cap – 01 No	
	Suction cleaning adapter – 01 No	Yes □ No □
	A/W Channel cleaning adapter – 01 No	
	4. The Colonovideoscope shall have the following features	Yes □ No □
		Yes □ No □
	• Forward viewing with a field of view not less than 170 °	Yes □ No □
	Observation range shall be 3-100 mm The state of th	Yes □ No □
	 The outer diameter of the distal end / insertion tube less than 12.8 mm 	
	 The inner diameter of the instrument channel not less than 3.7 mm 	Yes □ No □
	 Working length not less than 168 cm 	Yes □ No □
	 The bending angle of the tips shall be 	
	 The bending angle of the tips shall be Up – 180 , Down-180 Right -160 , Left- 160 	Yes □ No □
	Right -160 $^{\circ}$, Left- 160	Yes □ No □
	 The scope should have stiffness control facility to stiffen when necessary while 	Yes □ No □
	operating	
5	The following accessories supplied with the colonovideoscope	
	Biopsy forceps - 01No.	Yes □ No □
	Channel cleaning brush – 01 No.	Yes □ No □
	Biopsy Valve – 10 Nos.	Yes □ No □
	Water resistant Cap – 01 No.	Yes □ No □
	Suction cleaning adapter – 01 No.	Yes □ No □
	A/W Channel cleaning adapter – 01 No.	Yes □ No □
	SD Handle – 01 No.	Yes \square No \square
		Yes \square No \square
	• Snare – 01 No.	Yes \sqcap No \sqcap
	6,. Processor and light source (please see below the specification)	Yes \square No \square
	7. Endoscope washing trolley and stand / cupboard with hangers should be supplied.	
8	The Video-Cystoscope shall have the following features	Yes □ No □
	 Viewing direction should be forward end 0 0 	ies 🗆 No 🗆

		 Observation range should be 3-50 mm Field of view not less than 120° Distal end outer diameter of the insertion tube should be not greater than 4.8mm The inner diameter of the instrument channel not less than 2.2 mm Working length not less than 38 cm The bending angle of the tip shall be Up: 210° Down: 120° The scope should supplied with a reusable Biopsy forceps and a Grasping forceps. Separate processor and light source. 	Yes No Yes Yes	
		 Technical Specification for Processor and Light Source A Xenon light source providing even illumination over entire viewing field with intensity not less than 300 W Xenon lamp supplied with the unit. There should be a emergency lamp of Halogen 75 W and it should be automatic change over to 	Yes 🗆 No 🗆	
		 emergency lamp from the failure of main lamp. There should be a lamp cooling method by forced air cooling. There should be a data indicator, brightness adjustment buttons, emergency lamp alarm, lamp buttons, power switch, multi switching button, pump button and air supply indicator on the front panel of the processor and light source 	Yes □ No □ Yes □ No □	
		 There should be a digital output from D.V.I (Digital visual interface) and analog outputs from RGB, SDTV, Y/C and composite. There should be a facility of auto gain control picture in picture, colour adjustment BLV, Brightness control and electric zooming. 	Yes □ No □ Yes □ No □	
		 6. TV system shall incorporate a high resolution LCD monitor of not less than 20" and shall deliver high quality color video images with automatic exposure and automatic gain control 	Yes □ No □	
		 The equipment supplied must be covered by a comprehensive "parts & labor" warranty for a period of at least 24 months from the date of delivery 	Yes □ No □	
3	Laparosope -	1. The system shall operate on main supply of 230V+_ 10%	Yes □ No □	1
	Diagnostic & Therapeutic	2. The telescope of 10mm "0°" with working length more than 315mm with autoclavable, fiber optic light transmission shall be incorporated.	Yes □ No □	
		3. The light source shall be cold light type with maximum power not less than 150W with twin	Yes □ No □	

source interchangeable by selector switch provided with optic light cable not less than 230cm.	
4. The trocar tube of 11mm stopcocks, 80mm, spike for 11mm, triangular tip 80mm, spare valve Yes □ No □ flap for 11mm 10 pcs & sealing caps 10pcs.	
5. The trocar tube of 5.5mm, 80mm triangular tip 80mm spike for 5.5mm, triangular tip 80mm, spare valve flap for 5.5mm 10pcs, sealing cap for 5.5mm, 10pcs.	
6. The reducing tubes 11mm to 5mm − 3 Nos	
7. The trocar tube and cannula with pyramidal tip 11mm, 105mm and Blunt tip 11mm, 105mm with spare valve flap, pack of 10pcs and sealing cap pack of 10pcs.	
8. The trocar tube and cannula with pyramidal tip 6mm, 105mm with 10pcs valve flaps & 10pcs $${\rm Yes}\ \square\ {\rm No}\ \square$$ sealing cap.	
9. There shall be electronic CO ₂ endoflator, germ connector insufflator, 16 I complete unit with veress pneumoperitoneum needle 7cm and CO ₂ cylinder 02 Nos.	
10. Trocar size 7mm & 12mm with cannular automatic value with examination sheath for diagnostic Yes \square No \square purposes.	
11. There shall be silastic ring 50per package – 02 Nos and palpation probe with CM making – 01 Yes \square No \square No.	
12. The system shall include high frequency electro surgical unit with patient plate, two pedal foot switch, neutral electrode, coagulating electrode L 36mm, high frequency cord with 4mm plug for HF electro surgical generator. Yes □ No □ HF electro surgical generator.	
13. There shall be clip applicator, dismantling, rotating for pilling Titanium legating clips (medium-large) box with 16 cartridges with reached to lock the jaw part holding the clip, 10 clips each (300-12, 400-4).	
14. The suction and irrigation tubes with lateral holes with two-way cock for single hand control. $Yes \square No \square$	

		15. 21" flat screen colour TV system with stainless steel trolley & U video adapter.	Yes □ No □	
		16. Camera system, colour pal system with control unit, mount & standard set.	Yes □ No □	
		17. Dissecting spatuala blunt 5mm,36cm,L shaped,5mm,36mm.	Yes □ No □	
		18. There shall be macro needle holder ergonomic handle with rachet,knot tier,5mm for extra corporeal knotting, length 36mm.	Yes □ No □	
		19. The equipment shall be supplied with following forceps:		
		 Click line 5mm MANHES Grasping forceps 33cm rachet – 02Nos. Click line KELLY Grasping forceps 36cm -02Nos. Click line ROBI Grasping forceps with jaws 36mm, -01No. Click line 10mm CLAW Grasping forceps 33cm, rachet-01No. Click line BABCOCK Grasping forceps 36mm -01No. Click line 5mm METZENBAUM scissors 33cm – 01No. 5mm PREPARATION forceps, straight – 01No. 5mm MARTLAND forceps, 33cm – 01No. The system should have full, warranty on at least two year on equipment, and labour for supply of item & installation. The system should be given by proper demonstration with user literature and technical literature in English language. The tender document should be incorporated with full technical literature of the items to be supplied with model no. and type. 	Yes No Yes Yes No Yes No Yes Yes No Yes Yes	
4	Mobile X-	The unit shall operate on an ordinary 15 Amp mains supply of 230V ±10%, 50Hz.	Yes □ No □	1
	Ray Machine	2. The X-ray generator shall produce a maximum potential of not less than 120kvp, and minimum not less than 40kvp. The mAs shall be variable from 0.2 to 320.	Yes □ No □	
		3. The x-ray generator shall be a high frequency inverter type & output shall not be less than 40 kHz. The output power of the generator shall be at least 6kw.	Yes □ No □	
		 4. The x-ray tube shall have following features a) Small focus in range 0.5 – 1mm b) Large focus in range 1.0 – 2mm 	Yes □ No □ Yes □ No □	

		c) Anode heat storage capacity shall not be less than 350 KHU	Yes □ No □	
		 The unit shall be equipped with a multi-leaf collimator or a Dual shutter collimator. The collimator shall be manually or automatically adjustable with a built-in light beam full-field localiser with centre field indication. 	Yes □ No □	
		 6. A hand switch with a cable not less than 1m long or a remote controlled hand switch shall also be supplied. 7. X-Ray protective screen facility shall be available in the machine for the safety of the operator. 8. The unit shall be mounted on a mobile base antistatic caster wheels & should be able to easily 	Yes \square No \square Yes \square No \square Yes \square No \square	
		move around. 9. The unit shall have a protected cassette storage unit divided into two compartments for storing at least 12 up to a size of 36*44 cm².	Yes □ No □	
		10. Scale for accurately setting the focus to film distance shall be incorporated in the unit.	Yes □ No □	
		11. Warranty: 3 years from the date of delivery.	Yes □ No □	
5	Wax Bath	1. The unit shall operate on power supply 230V ± 10%, 50Hz.	Yes □ No □	2
	Wax Ball	2. The unit shall have a stainless steel inner tank with a splash cover and mounted on a mobile stand.	Yes □ No □	_
		3. Tank Capacity Shall be not less than 30Lt.	Yes □ No □	
		 It shall be possible to control the temperature between 30° to 90° C and there should be overheating safety mechanism. 	Yes □ No □	
		5. Machine supply with necessary wax.	Yes □ No □	
		6. Possible to use for foot & hand.	Yes □ No □	
		Detailed installation, service and user manuals in English shall be supplied together with the equipment.	Yes □ No □	
		9. Fully graphic, illustrated original technical literature in English describing the equipment offered & detailing the specifications shall also be supplied with the offer.	Yes □ No □	
		 The main unit and accessories must be covered by a comprehensive "parts & labour" warranty for a period of at least 24 months from the date of delivery. 	Yes □ No □	

Signature of the Bidder	(Common Seal of the Company)
Name & address of the Company	

Package TWO: Operation Theatre Equipment

EMD = SLR 500,000

Nr	Equipment and Instrument	Specification	The most appropriate	Required Number
			answer	
1	High Pressure	1. The unit shall operate on a 3-phase, four wire, 400V±10%, 50 Hz mains supply.	Yes □ No □	2
	Sterilizer – 150 L	2. The unit shall be suitable for sterilising at the temperatures 134 °C and 121 °C.	Yes □ No □	
		3. The net chamber volume shall not be less than 150 litres.	Yes □ No □	
		 The chamber of the sterilizer shall be manufactured of acid proof stainless steel and shall be designed to withstand a pressure at least 20% higher than a working pressure 	Yes □ No □	
		of 2.2 kg/cm ² (32 p.s.i.). The jacket shall be manufactured of pressure vessel steel.		
		The unit shall be fitted with an automatically operated door with a signal light on the control panel to indicate that the door is locked.	Yes □ No □	
		6. All controls shall be fully automatic and there shall be visual indication of each step of a process during a cycle.	Yes □ No □	
		7. The unit shall be capable of evacuation to an absolute pressure of not greater than 50 mm Hg.	Yes □ No □	
		 The unit shall be fitted with a reducing valve for the supply of steam to the jacket and chamber. 	Yes □ No □	
		9. The chart recorder/printer showing temperature and pressure of the complete cycle should be fitted to the unit.	Yes □ No □	
		 A chamber pressure gauge, together with a jacket pressure gauge shall be mounted on the front panel. 	Yes □ No □	
		11. A steam generator fitted with immersion type elements of loading not less than 15 kW shall be provided.	Yes □ No □	
		12. There shall be no critical water supply pressure for the operation of the sterilizer.13. The steam generator shall be fitted with	Yes □ No □	
		a) A safety valve.	Yes □ No □	
		b) A pressure gauge (calibrated from 0 to 1 1/2 times the working pressure).	Yes □ No □	
		c) A water level gauge.	Yes □ No □	
		d) A critical water level electrical cut-out.	Yes □ No □	
		e) An automatic air vent.	Yes □ No □	

	f) A pressure control that shall maintain the pressure within ±5 % of the working pressure during operation.	Yes □ No □	
		Yes □ No □	
	ii) A leed water talik with a float valve control.	103 110 1	
	14. The cost of fast moving spares and accessories shall also be quoted giving unit cost in each case	Yes □ No □	
	15. Warranty: 24 calendar months from the date of successful commissioning on a full "parts & labour" basis.	Yes □ No □	
Angosthopia	ANAESTHETIC MACHINE		1
	ANALSTILL TO MACTINE		Ī
Ventilator	01. The main framework of the machine & the working surface shall be of stainless steel and have dimensions of not less than 27" x 19" and the unit shall be mounted on swivel type anti-static lockable caster wheels.	Yes □ No □	
	02 The unit shall incorporate drawer units and monitoring shelf	Yes □ No □	
	with which should include colour coded anti-static hoses with connections to fit the gas	ics and a	
	04. The machine shall be suitable for supplying O ₂ and N ₂ O from medical gas cylinders through	Yes □ No □	
	05. The machine should have Seven Separate Pressure gauges Visibly located in the centre for monitoring of Supply gas pressures from Pipeline and Cylinders	Yes □ No □	
		Yes □ No □	
	b) Flow meters for O ₂ , N ₂ O & Air with O ₂ on the left hand side and maximum flow rates not	Yes □ No □	
		Yes □ No □	
		Yes □ No □	
	b) Audible O ₂ supply failure alarm system, which cut off other gases and open valve to atmosphere	Yes □ No □	
	Anaesthesia Machine with Ventilator	during operation. g) A feed water pump protected against overload and phase failure. h) A feed water tank with a float valve control. 14. The cost of fast moving spares and accessories shall also be quoted giving unit cost in each case. 15. Warranty: 24 calendar months from the date of successful commissioning on a full "parts & labour" basis. Anaesthesia Machine with Ventilator 10. The main framework of the machine & the working surface shall be of stainless steel and have dimensions of not less than 27" x 19" and the unit shall be mounted on swivel type anti-static lockable caster wheels. 10. The unit shall incorporate drawer units and monitoring shelf. 10. The unit shall have provision for piped line supply of O ₂ (Oxygen), N ₂ O(Nitrous Oxide) & Air with which should include colour coded anti-static hoses with connections to fit the gas outlets conforming to British Standards. 10. The machine shall be suitable for supplying O ₂ and N ₂ O from medical gas cylinders through flush type pin index yokes. 10. The machine shall be fitted with following attachments: 10. The machine shall be fitted with following attachments: 21. Pin index yokes, two each for O ₂ and N ₂ O cylinders with pressure regulators 22. Pin index yokes, two each for O ₂ and N ₂ O on the left hand side and maximum flow rates not less than 10 l/min 23. Proportionate system for O ₂ and N ₂ O 24. Emergency O ₂ flush 25. Proportionate system for O ₂ and N ₂ O 26. Emergency O ₂ flush 26. Proportionate avporiser 27. The following safety devices shall be incorporated with the unit: 28. Anti-Hypoxic device for O ₂ and N ₂ O 29. Audible O ₂ supply failure alarm system, which cut off other gases and open valve to	during operation. g) A feed water pump protected against overload and phase failure. h) A feed water tank with a float valve control. 14. The cost of fast moving spares and accessories shall also be quoted giving unit cost in each case. 15. Warranty: 24 calendar months from the date of successful commissioning on a full "yes □ No□ "parts & labour" basis. Anaesthesia Machine with Ventilator ANAESTHETIC MACHINE 01. The main framework of the machine & the working surface shall be of stainless steel and have dimensions of not less than 27" x 19" and the unit shall be mounted on swivel type anti-static lockable caster wheels. 27. The unit shall incorporate drawer units and monitoring shelf. 03. The unit shall have provision for piped line supply of Q₂ (Oxygen), N₂O(Nitrous Oxide) & Air with which should include colour coded anti-static hoses with connections to fit the gas outlets conforming to British Standards. 04. The machine shall be suitable for supplying O₂ and N₂O from medical gas cylinders through flush type pin index yokes. 05. The machine should have Seven Separate Pressure gauges Visibly located in the centre for monitoring of Supply gas pressures from Pipeline and Cylinders 06. The machine shall be fitted with following attachments: a) Pin index yokes, two each for O₂ and N₂O cylinders with pressure regulators b) Flow meters for O₂, N₂O & Air with O₂ on the left hand side and maximum flow rates not less than 10 l/min c) Proportionate system for O₂ and N₂O cylinders with pressure regulators b) Flow meters for O₂, N₂O & Air with O₂ on the left hand side and maximum flow rates not less than 10 l/min c) Proportionate system for O₂ and N₂O d) Emergency O₂ flush e) Auxiliary O₂ outlet at 4 bar f) Selectate type Halothane vaporiser with keyed filler type anaesthetic agent adapter g) Isofluorane vaporiser for The following safety devices shall be incorporated with the unit: a) Anti-Hypoxic device for O₂ and N₂O b) Audible O₂ supply failure alarms system, which cut off other gases and open valve to Yes □

c) Adjustable pressure relief device (0 - 60 cm H ₂ O)	Yes □ No □	
d) N ₂ O / Air interlock switch should be available	Yes □ No □	
e) Vaporiser interlock	Yes □ No □	
f) O ₂ analyzer	Yes □ No □	
08. The following circuits and accessories shall be supplied with each unit indicating their unit		
prices separately:		
a) Magill type breathing circuit consisting of T adapter with bag mount, 2 litre reservoir	Yes □ No □	
bag, corrugated tube (42"), male & female adapters, magill valve and mount adapter.		
b) Reusable Bain circuit with Bain valve. The Bain circuit should be able to connect	Yes □ No □	
directly to the Common Gas Outlet directly without changing of Bain modules or		
components.		
c) Circle absorber system complete with 2 kg capacity canister for soda lime with	Yes □ No □	
mounting facility, scavenging valve and absorber bypass feature, detachable reusable		
fresh gas hose assembly including 2 litre bag and patient breathing circuit including		
face masks with hooks for head harnesses and 2 spill valves one at patient end and		
one at the absorber end.		
d) Should have a pressure gauge incorporated to the absorber assembly for monitoring of	Yes □ No □	
pressure during manual ventilation	N/ N/	
e) Anatomical type face masks (sizes 1-5) with hooks for head harness.	Yes □ No □	
f) Head Harness (02 nos.)	Yes □ No □	
g) Aneroid sphygmomanometers with inflator fitted	Yes □ No □	
h) Tool set inclusive of adjustable spanner for cylinders.	Yes □ No □	
h) 2 nos. catheter mounts	Yes □ No □ Yes □ No □	
09. All gas outlets, circuit connections shall be compatible with BS standards.		
10. The tenderer should quote separately for all the fast moving accessories, disposables and		
spare parts.	Yes □ No □	
11. The equipment supplied must be covered by a comprehensive "parts & labour" warranty for a period of at least 24 months from the date of delivery.	ies 🗆 No 🗆	
a period of at least 24 months from the date of delivery.		
ANAESTHETIC VENTILATOR		
ARAESTIE IIS VERTIEATOTT		
1. The unit shall Electrical or Gas driven & operate on a power supply of 230V ±10%, 50 Hz.	Yes □ No □	
2. The unit shall be compact and able to mount on top of the Anaesthetic Machine for space	Yes □ No □	
saving.		
3. It shall be possible to operate the ventilator on following modes:		
a) Volume controlled Ventilation	Yes □ No □	
	Yes □ No □	
b) Pressure controlled		

	c) CMV	Yes □ No □	
	d) PSV	Yes □ No □	
	e) PEEP	Yes □ No □	
	·	Yes □ No □	
	f) SIMV		
	3. The bellows shall be driven by an electrically powered motor or Gas.	Yes □ No □	
	4. There shall be an internal battery system for continuous operation of the unit at least for a	Yes □ No □	
	period of 1 hour in case of a power failure.		
	5. The equipment shall have the controls and displaying facilities for the followings.		
	a) Tidal Volume : 100ml - 1600 ml	Yes □ No □	
	b) Respiratory Frequency: 6 - 40 cycles/min.	Yes □ No □	
	c) I: E Ratio : 1:2	Yes □ No □	
	d) Airway Pressure : 10 - 80 cm H ₂ O	Yes □ No □	
	e) O ₂ Concentration monitor shall be available f) Electronic PEEP control	Yes □ No □	
		Yes □ No □	
	Tidal Volume and Respiratory Frequency shall be independently controllable.		
	6. There shall be an illuminated pressure gauge to indicate circuit pressure.	Yes □ No □	
	7. There shall be a sefety mechanism for limiting high and law processors		
	7. There shall be a safety mechanism for limiting high and low pressures. 8. There shall be audible and visual alarm facility for indicating the followings:	Yes □ No □	
	a) High/low pressure		
	b) High/low tidal volume	Yes □ No □	
	c) High/low O ₂	Yes □ No □	
	d) Power failure	Yes □ No □	
	e) Apnea	Yes □ No □	
	f) O ₂ /air failure	Yes □ No □	
	9. The unit shall have facilities for use as a bag squeezer for closed circuits via hose with	Yes □ No □	
	standard accessories.	Yes □ No □	
	10. All gas outlets, circuit connections shall be compatible with BS standards.		
	11. The tenderer should quote separately for all the fast moving accessories, disposables and	Yes □ No □	
	spare parts.	Yes □ No □	
	12. Detailed installation, service and user manuals in English shall be supplied together with the		
	equipment.	Yes □ No □	
	13. Fully graphic, illustrated original technical literature in English describing the equipment	Yes □ No □	
	offered & detailing the specifications shall also be supplied with the offer.	103 1110 1	
	14. Quote the price of anaesthetic machine and ventilator seperatly		
	15. Warranty: 24 months from the date of delivery.	Yes □ No □	
		103 - 110 -	

		1000 400 5011 11 11 11 11 11 11	** **	
3	Operation Theatre	1. It shall operate on mains supply of 230 ± 10%, 50 Hz. It shall also be provided with 1	Yes □ No □	2
	Lamp	hour standby UPS.		
	•	2. It shall be a suspended ceiling - mounted system, suitable for use in major operating	Yes □ No □	
		theatres and a cool and shadow free system. It shall also comprise a main lamp and a		
		satellite and the bulb type shall be LED. The Type of LED should be 2 nd generation warm		
		white LED only.		
		3. Minimum illuminance of the main lamp at 1000mm away shall be 100,000 Lux. The field	Yes □ No □	
		diameter shall be between 200mm and 300mm. The no. of LEDs in the main lamp shall be		
		over 100 units.		
		4. It shall be possible to adjust the stem of the lamp to facilitate installation as required.	Yes □ No □	
		5. Satellite shall be attached to the same structure as the main lamp and shall have a	Yes □ No □	
		minimum illuminance of 100,000 Lux at 1000mm away. It's field diameter shall be between		
		180mm and 280mm. The no. of LEDs in the satellite lamp shall be over 100 units.		
		6. Color temperature of main lamp and satellite shall be 4500K.	Yes □ No □	
		7. Life span of the LEDs should be minimum 40,000 hours.	Yes □ No □	
		8. There shall be a flux management system to prevent drop of illumination during long hours	Yes □ No □	
		of operation.		
		9. Continuous illumination and auto focusing should be possible.	Yes □ No □	
		10. The lamp shall be easily tilted to any position in the working area and could be locked at	Yes □ No □	
		any position.		
		11. The cost of fast moving spares and accessories shall also be quoted giving unit cost in	Yes □ No □	
		each case.		
		12. Warranty: 24 calendar months from the date of successful commissioning on a full "parts &	Yes □ No □	
		labour" basis.		
4	Operation Theater	1. The table shall be made out of corrosion resistant metal with a stainless steel lined base	Yes □ No □	2
·	Table	cover and have anti static, anti slip mattresses upholstered in durable water proof material.		_
	lable	The table surface shall be X - ray translucent throughout with one side having sufficient		
		space to use an image intensifier. The table shall comprise at least four sections with tiltable		
		head rest, upper basic plate, lower back plate, and split type leg plates.		
		2. The table shall be mounted on a set of antistatic caster with break suitably large to permit	Yes □ No □	
		least of motion and minimal damage to high quality flour.		
		3. The all adjustments of the OT Table should be foot Controlled and not by Hand cranks	Yes □ No □	
			Yes ⊓ No ⊓	
		6. The table surface should be adjustable to positions required for all standard surgical	Yes 🗆 No 🗆	
		level by means of a hydraulic pump. 5. There shall be facility to slide Table top minimum by 200mm.	Yes - No -	
		procedures such as a trendelenburg and reverse trendelenburg (of approximately 30°), a		

			lateral tilt (of not I	less than 15°), kidney, leg traction	positions, and	lower back plate approx		
			$+60^{\circ}/-50^{\circ}$.					
		7.	The dimensions of	of the working surface of the table s	hall not be less	s than 200 x 50 cm.	Yes □ No □	
		8.	Your main offer sh	hall include the following all standar	d accessories.			
			a. Arm s		-	02 Nos	Yes □ No □	
			b. Arm r	rest with clamps	-	02 Nos	Yes □ No □	
				lder rest, with clamps	-	02 Nos	Yes □ No □	
				w rests with clamps rests with clamps	-	02 Nos	Yes □ No □	
						3	Yes □ No □	
				on one concern man clamps	01 No		Yes □ No □	
			g. Kydn	ey elevator (bridge)	-	01 No	Yes □ No □	
			h. Patie	nt restraint strap	-	01 No	Yes □ No □	
				buttock support	-	01 No.	Yes □ No □	
			j. Leg h		-	02 Nos.	Yes □ No □	
				ion Stand	-	01 No.	Yes □ No □	
				ng clamps (with radial settings)	-	02 Nos	Yes □ No □	
				eling clamps	-	08 Nos	Yes □ No □	
				al arm support with pads	-	02 Nos.	Yes □ No □	
			o. Head		=	01 No.	Yes □ No □	
			p. Head		-	01 No.	Yes □ No □	
		9.		of all such standard accessories a	nd a standard	orthopaedic attachment	Yes □ No □	
		_	shall also be quot					
		9.	Warranty: 24 cale labour" basis.	endar months from the date of succ	esstul commis	ssioning on a full "parts &	Yes 🗆 No 🗆	
5	Diathermy		1. The unit shall	function on power supply of 230V±	10%, 50 Hz. It	shall be solid state,	Yes □ No □	3
	Machine			structed unit having monopolar and				
	Macrime		portable type.	•				
			2. It shall be a h	igh power electrosurgery unit of mo	nopolar cutting	g, coagulation and	Yes □ No □	
				maximum output powers not less the				
				and maximum bipolar output power		60W.		
				modes- Low cut, Pure cut, Blend c			Yes □ No □	
				ation modes- Desiccate, Fulgurate,			Yes □ No □	
				ower frequency shall not be less that			Yes □ No □	
				not exceed 10 micro Amperes for al				
				incorporate safety circuits to protect	t operators as	well as patients from	Yes □ No □	
			burning and e					
			7. The output po	ower in all conditions shall be able to	o be varied (co	ontrol) from zero to	Yes □ No □	

		maximum continuously.	Wa a Nia	
		8. The power ON/OFF switch shall incorporate an indicator lamp. It shall be able to switch the output power by means of both foot switch and finger switch.	Yes 🗆 No 🗆	
		9. There shall be visual indicators indicating different operating modes.	Yes □ No □	
		10. The unit shall be equipped with audible and visual alarms to indicate equipment	Yes □ No □	
		malfunction, such as discontinuations of patient plate etc.		
		11. The unit shall be designed for safe operation in the presence of anaesthetic gases.12. The diathermy shall be supplied with following accessories:	Yes 🗆 No 🗆	
		 Lead plate, monopolar lead with needle, bipolar lead and forceps (these shall be autoclavable) 	Yes □ No □	
		Monopolar foot switch, bipolar foot switch	Yes □ No □	
		13. The unit prices of the above accessories shall also be quoted separately.	Yes □ No □	
		14. A complete and detailed set of operation, service and maintenance manuals in English must be supplied with each unit.	Yes 🗆 No 🗆	
		15. Fully graphic, illustrated original technical literature in ENGLISH describing the equipment offered & detailing the specifications shall also be supplied with the offer.	Yes □ No □	
		16. Warranty: comprehensive "parts & labour" warranty for a period of at least 24 months	Yes □ No □	
6	Dryer 0	1. General		2
		(a) Side loaded electrically operated heavy duty, automatic tumble dryer to be used in health care sector	Yes □ No □	_
		(b) The machine should conform to European or American Standards.	Yes □ No □	
		(C) Supplier to submit proforma invoice or certificate from principal agent in order to certify		
		i. The product is Brand New	Yes □ No □	
		ii. Year of Manufacture	Yes □ No □	
		iii. Country of Manufacture	Yes □ No □	
		iv. Country of Origin	Yes 🗆 No 🗆	
		v. Make	Yes - No -	
		vi. Model	Yes □ No □	
		(d) Equipment with local modifications which suit to the specifications will not be considered.	Yes □ No □	
		2. Heating & Drying Method		
		(a) Clothes should be dried using electric heater. 3 Drum	Yes □ No □	
		(a) Volume of the drum should be 525 – 530 liters.	Voc - No -	
			Yes □ No □ Yes □ No □	
		(b) Drum should be made out stainless steel and supplier to specify about provisions made for air flow through the drum. The diagonal or radial air flow is preferred.	TES LINU L	

(c) Should have a reversing drum.	Yes □ No □	
04. Body & Door	Mar. Ma	
(a) Body should be made out stainless steel.	Yes □ No □	
(b) The door of the machine should open more than 170° degree for easy loading & unloading.	Yes □ No □	
(c) The door should be made out stainless steel and designed for heavy duty purposes.	Yes □ No □	
(d) The machine should have sufficient lint storage area with self cleaning filter.05. a. Supplier to specify the availability of following features.	Yes □ No □	
i. Programmable temperature		
ii. Steam connection	Yes □ No □	
iii. Drying & cool down timing indicators	Yes □ No □	
iv. Power on/off indicator	Yes □ No □	
V. Drying indicator	Yes □ No □	
	Yes □ No □	
vi. Self cleaning Lint filter	Yes □ No □	
vii. Other features	Yes □ No □	
06. Technical Literature		
(a) Operators manuals & maintain instructions should be provided with the machine.		
(b) A recent technical brochure should be submitted with the quotation	Yes □ No □	
(C) One set of workshop manuals and one set of spare parts catalogues should be	Yes □ No □	
provided for each unit	Yes □ No □	
(d) All literature to be in English	Yes □ No □	
07. Spare Parts	ies Lino L	
(a) The local agent to stock & supply of spare parts for 10 years from the date of supply.	Yes □ No □	
(b) The local agent to have repair and service facility for equipment quoted.	Yes □ No □	
(c) The local agent should undertake supply of spare parts, repair & servicing on credit basis up to 50% of the total value at any one time	Yes □ No □	
08. Warrant: one year warranty for all the parts.	Yes □ No □	
09. Training		
(a) The local agent to provide comprehensive training on operation and maintenance for three persons of the hospital staff.	Yes 🗆 No 🗆	
10. Installation		
(a) The local agent to provide qualified technician free of charge for installing and commencing of the equipment at the hospital. Labour and other technical assistance will be provided by the hospital, if required.	Yes □ No □	

7	Ironer	01. General		2
'	1101101	(a) The machine should conform to European or American Standards.	Yes □ No □	_
		(b) Supplier to submit proforma invoice or certificate from principal agent in order to certify		
		i. The product is Brand New	Yes □ No □	
		ii. Year of Manufacture	Yes □ No □	
		iii. Country of Manufacture	Yes □ No □	
		iv. Country of Origin	Yes 🗆 No 🗆	
		v. Make	Yes □ No □ Yes □ No □	
		vi. Model	Tes IIIO I	
		(c) Equipment with local modifications which suit to the specifications will not be	Yes □ No □	
		considered.	100 2 110 2	
		02. Heating & Drying Method		
		(a) Clothes should be dried & ironed using electric heated roller.	Yes □ No □	
		03. Roller		
		(a) The minimum roller length should be 1700mm and minimum working width should be 1575mm.	Yes □ No □	
		(b) The minimum roller diameter should be 320mm.	Yes □ No □	
		(c) The minimum adjustable ironing speed should be between 3-30 FT/M.	Yes □ No □	
		(d) Should be microprocessor controlled enabling electronic thermoregulation offering	Yes □ No □	
		better temperature distribution and reduced energy consumption.		
		(e) Should have a frequency inverter enabling variable ironing speed.	Yes □ No □	
		(f) Temperature range should be 175° - 180° F	Yes □ No □	
		04. Cabinet & Material of Construction	Yes ⊓ No ⊓	
		(a) The cabinet should be made out stainless steel.	Yes 🗆 No 🗆	
		(b) Should have scrapers made of stainless steel with each scraper composed of three teeth.	163 110 1	
		05. a. Supplier to specify the availability of following features.		
		i. Vertical exhaust	Yes □ No □	
		ii. Emergency button	Yes □ No □	
		iii. Pedal	Yes □ No □	
		iv. Main switch	Yes □ No □	
		V. Horizontal exhaust	Yes - No -	
		VI. Electrical connection	Yes - No -	
		vii. Other features	Yes □ No □	
		06. Technical Literature		

				-
		(a) Operators manuals & maintain instructions should be provided with the machine.(b) A recent technical brochure should be submitted with the quotation	Yes = No = Yes = No =	
		(C) One set of workshop manuals and one set of spare parts catalogues should be provided for each unit	Yes □ No □	
		(d) All literature to be in English	tes 🗆 No 🗆	
		07. Spare Parts (a) The local agent to stock & supply of spare parts for 10 years from the date of supply.	Yes □ No □	
		(b) The local agent to have repair and service facility for equipment quoted.	Yes □ No □	
		(c) The local agent should undertake supply of spare parts, repair & servicing on credit	Yes - No - Yes - No -	
		basis up to 50% of the total value at any one time 08. Warranty : Equipment should carry one year warranty for all the parts.	162 11101	
		09. Training	Yes □ No □	
		 (a) The local agent to provide comprehensive training on operation and maintenance for three persons of the hospital staff. 10. Installation 	Yes □ No □	
		(a) The local agent to provide qualified technician free of charge for installing and commencing of the equipment at the hospital. Labour and other technical assistance will be provided by the hospital, if required.	Yes 🗆 No 🗆	
8	Washing Machine	01. General		2
	with Extractor	(a) Electrically operated heavy duty high spin washer extractor to be used in health care sector.	Yes □ No □	_
		(b) The machine should be free standing and soft mount.	Yes □ No □	
		(c) The machine should conform to European or American Standards.(d) Supplier to submit proforma invoice or certificate from principal agent in order to certify.	Yes □ No □	
		i. The product is Brand New.	Yes □ No □	
		ii. Year of Manufacture	Yes □ No □ Yes □ No □	
		iii. Country of Manufacture iv. Country of Origin	Yes □ No □	
		v. Make	Yes □ No □	
		vi. Model	Yes 🗆 No 🗆	
		(e) Machine to be side loaded and body of machine should be made out stainless steel. 02. Washing Cycle	Yes 🗆 No 🗆	
		(a) The machine should be able to wash all types of clothes weighing between 22 – 25 Kg.	Yes □ No □	
		(b) Tub capacity should be not less than 220 ltrs.	Yes □ No □	

(c) The machine should have minimum three spin modes and one washing mode. The	Yes □ No □	
maximum extraction speed should not be less than 1000 rpm.		
(d) The minimum G-Force should be 419 or the water retention after extraction should be less than 48%.	Yes 🗆 No 🗆	
(e) Should have a programmable microprocessor control preferably with a minimum of 20 standard wash programs.	Yes □ No □	
(f) Inlet has to be available to insert water to the tub by means of a hose.	Yes □ No □	
(g) Supplier to specify the availability of following features. i. Over flow filter	Yes □ No □	
ii. Strainer	Yes 🗆 No 🗆	
	Yes 🗆 No 🗆	
j ,	Yes 🗆 No 🗆	
iv. Hot water connection		
v. Door opening angle	Yes - No -	
vi. Lubrication facility for pulley and tub seedlings	Yes 🗆 No 🗆	
vii. Suspension	Yes 🗆 No 🗆	
viii. Other features	Yes □ No □	
03. Accessories		
(a) Equipment should have following accessories	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
i. Soap Box – five compartment	Yes □ No □	
ii. Flexible drain hose	Yes □ No □	
iii. Suitable plug top	Yes □ No □	
04. Technical Literature		
(a) Operators manuals & maintain instructions should be provided with the machine.	Yes □ No □	
(b) A recent technical brochure should be submitted with the quotation	Yes □ No □	
(c) One set of workshop manuals and one set of spare parts catalogues should be provided for each unit	Yes □ No □	
(d) All literature to be in English	Yes □ No □	
05. Spare Parts		
(a) The local agent to stock & supply of spare parts for 10 years from the date of supply.	Yes □ No □	
(b) The local agent to have repair and service facility for equipment quoted.	Yes □ No □	
(c) The local agent should undertake supply of spare parts, repair & servicing on credit basis up to 50% of the total value at any one time.	Yes □ No □	
06. Warranty : one year warranty for all the parts.	Yes □ No □	
07. Training	.50 =	
(a) The local agent to provide comprehensive training on operation and maintenance for	Yes ⊓ No ⊓	
three persons of the hospital staff.	.55 - 115 -	
08. Installation		

		(a) The local agent to provide qualified technician free of charge for installing and commencing of the equipment at the hospital. Labour and other technical assistance will be provided by the hospital, if required.	Yes 🗆 No 🗆	
9	Ultrasonic Cleaner	 Configuration: High frequency vibrational cleaner to clean micro surgical instruments with water Power Supply: 230V +/- 10%, 50Hz Volume: Stand-alone unit – 45 litre SS tank with SS net sieve and top cover Ultrasonic frequency: ~ 50kHz. Unit to be noiseless (IEC 653) Settings: Time, Power, Temperature memory settings Time: Adjustable 1 – 480 minutes Power: 1000W (maximum) adjustable in steps of 40 to 100W Temperature: 20 to 80 deg. C (adjustable) Installation: All pipe and plumbing work should be done by the supplier Accessories: Indicate the unit price of all accessories Warranty: One year 	Yes No	2
10	Electrotherapy Stimulator	 The unit shall operate on mains supply of 230V 10% 50Hz. The unit shall provide electrotherapy facility and electro diagnostic applications. The unit shall include a computer and a printer with physioview software. The unit shall have two channels with independent intensity control. Channel shall be switched from constant current to constant voltage for non-stationary treatment techniques. The unit shall comprise with following low frequency currents galvanic current, galvanicmicrocurrent, DF/MF/CP/LP(diadynamic current), UR(trabert), HV,TENS, MENS(nurve stimulate with microcurrent), IG30, IG50, FM,STOCH, HVS, FAS(faradic current), T/R(exponential current. The unit shall have LCD Display with 25 individual program memorie 	Yes No Yes No Yes No Yes No Yes No	2
		 6. The unit shall have extensions-index with treatment proposals 7. The unit shall comprise of the following accessories. a. EMG electrode cable with connectors. b. 2 channels cable for reference electrode c. Disposable electrodes (Pre-gelled) d. Electrode cable 2 channel e. Flexible rubber electrodes f. Moist pads g. Fixing strap h. Mains cable 	Yes No	

	i. Programmable memory card	Yes □ No □				
	j. Operating instructions.	Yes □ No □				
	he unit cost of the accessories necessary to operate the above equipment shall be uoted separately.	Yes 🗆 No 🗆				
fu fu	the tender shall supply two sets off operation and service manuals in ENGLISH having all details of operation, maintenance, servicing and detailed circuit diagrams.	Yes 🗆 No 🗆				
	Varranty: warranted for a period of not less than 24 calendar months from the date of uccessful commissioning on full parts & Labour basis.	Yes 🗆 No 🗆				
Signature of the Bidder						
(Common Seal of the Company)						
Name & address of the Company -						

Package THREE : ICU Equipment & Others

EMD = 1,000,000

Nr	Equipment and	Specification	The most	Required
	Instrument		appropriate	Number
			answer	
1	Therapeutic Ventilator	1. The unit shall operate on power supply of 230V ±10%, 50Hz. 2. It shall be suitable for long duration uses for therapeutic applications. It should be software upgradable for Neonatal Ventilation in future. 3. It shall be possible to operate the ventilator on following modes. Volume controlled Pressure controlled Pressure support SIMV with flow by /SIMV+ Pressure support Proportionate Assist Ventilation CPAP, Non-invasive Ventilation Apnea back-up Ventialtion — With facility to adjustment Apnea interval time Manual 4. The unit shall be able to create flow patterns of constant, acceleration & deceleration. 5. The unit shall have the following controls. Working Pressure : up to 120 cm H ₂ O Tidal Volume : adjustable range 25ml - 2000 ml Respiratory rate : adjustable range 4 - 60 b/min. I : E Ratio : adjustable range 1 : 4 - 4 : 1 Airway Pressure : adjustable range 0 - 100 cm H ₂ O Peak Inspiratory Flow : in the range 0 - 100 cm H ₂ O Peak Inspiratory Flow : in the range 0 - 30 cm H ₂ O Trigger Sensitivity : adjustable range -20 - 0 cm H ₂ O below PEEP Tidal Volume and Respiratory rate independently adjustable. 6. Following monitoring facilities shall be incorporated with the unit. The display shall have a minimum 15" touch screen monitor. Working pressure, Airway pressure, Expired Minute volume, Tidal Volume, Respiratory	Yes No Yes Yes No Yes Yes	5

		rate, I:E ratio, O ₂ concentration, Pressure Volume waveform & Loops, Respiratory		
		Mechanics and Trending for 72 hours. The Wave forms should be colour differentiated for		
		inspiratory, expiratory phases and spontaneous breaths.		
		7. There shall be audible & visual alarms for		
		High/Low Pressure	Yes □ No □	
		High/Low Minute volume	Yes □ No □	
		Apnea,		
		Air/Oxygen failure	Yes □ No □	
		Power failure	Yes □ No □	
		8. A dual servo type humidifier with autoclavable, reusable chambers shall be included together	Yes □ No □	
		with the equipment.	Yes □ No □	
		9. The unit shall have an Autoclable and Heated expiratory filter with Vial incorporated to the		
		Ventilator for filtering of expired gases.	Yes □ No □	
		10. The unit shall be supplied with all standard accessories such as autoclavable patient circuit,		
		swivel type corrugated catheter mounts, O_2 & air hoses with connectors necessary for	Yes □ No □	
		satisfactory operation of the unit.	103 110 1	
		11. The following accessories shall be quoted separately.		
		, , ,		
		(a) Air Compressor :- Flow - 60 l/min at 4 bar	Yes □ No □	
		Air - Oil free of medical grade		
		(b) Mobile stand for ventilator		
		12. Flow Sensors and expiratory valve assembly should be incorporated inside the Ventilator and	Yes □ No □	
		should not require any user intervene for cleaning and maintenance.		
		13. Warranty: 24 months from the date of delivery.	Yes □ No □	
			.00 = 110 =	
	Multipara	1. Operating voltage shall be 230V (+/-10%), 50Hz AC Mains with built in power supply and	Yes □ No □	
2	Multipara	rechargeable maintenance free batteries.	163 110 1	3
	Monitor with	2. Monitors shall have configuration setting to adjust for adult, neonatal, or pediatric patient	Yes □ No □	
	Capno	applications. All monitoring measurement algorithms and alarm settings shall be	100 0 110 0	
		changed in accordance with the setting.		
		All input connectors shall be color/key coded to avoid incorrect connections.	Yes □ No □	
		Labeling of IBP sites and pressure waveform scaling shall be possible.	Yes □ No □	
		5. Monitors shall simultaneously display the real time waveforms, numerical data and graph	Yes 🗆 No 🗆	
		trends.		
		All bedside Monitors shall have provision to monitor, process and display following		
		parameters in different colors.		
		a. ECG-5 leads /Respiration with HR	Yes □ No □	
Щ	l	a. 200 broado maron marini		

I	L NIDD 1 III 11 III III III III III III III	T	
	b. NIBP using osillometric technique (Range: 20 to 250 mmHg & accuracy +/- 5mmHg)	Yes 🗆 No 🗆	
	c. Pulse oxymetry capable of performing accurately under motion and low	Yes □ No □	
	d. Two IBP with capability to monitor Arterial, CVP or PAP. (range:30 to 300mmHg	Yes □ No □	
		Vaa - Na -	
	1. One temperature channel	tes 🗆 No 🗆	
	All relevant accessories to monitor above parameters in adult, pediatric and neonate modes shall be provided.	Yes □ No □	
	8. Display should have the capability to display at least 8 traces including up to 3 channels of ECG, Two channels of IBP, SPO ₂ , Respiration or CO ₂ .	Yes 🗆 No 🗆	
	inches and shall have a bright screen easily viewable even at a distant from different	Yes 🗆 No 🗅	
	10. Trend graphing and listing of all monitored parameters shall be possible up to 48hours. 11. Continuous ST segment analysis and arrhythmia analysis of different types shall be	Yes 🗆 No 🗆	
	possible.	Yes 🗆 No 🗆	
	severity. 13. Monitors should be compact with all patient connections on one side of the monitor for	Yes 🗆 No 🗆	
	better cable management.	Yes □ No □	
	14. A built-in printer / recorder shall be available.		
	15. There should be display management features that allow automatic spacing of waveforms according to the number of parameters monitored.	Yes 🗆 No 🗆	
	16. Warranty: At least 24 months for the machine and the accessories.	Yes □ No □	
Multipara	1) Operating voltage shall be 230V (+/-10%), 50Hz AC mains with built in power supply and rechargeable maintenance free batteries.	Yes 🗆 No 🗆	4
Worldor – Basic	 Monitor shall have configuration setting to adjust for adult, neonatal, or pediatric patient applications. All monitoring measurement algorithms and alarm settings shall be 	Yes 🗆 No 🗆	
		Yes □ No □	
	trends.	.50 - 110 -	
	 All bedside Monitor shall have provision to monitor process and display following parameters in different colors. 		
	Multipara Monitor – Basic	c. Pulse oxymetry capable of performing accurately under motion and low perfusion conditions. (Range: 0 to 100% & accuracy +/- 2 digits) d. Two IBP with capability to monitor Arterial, CVP or PAP. (range:30 to 300mmHg & accuracy +/- 2mmHg) e. Side Stream EICO ₂ module. f. One temperature channel 7. All relevant accessories to monitor above parameters in adult, pediatric and neonate modes shall be provided. 8. Display should have the capability to display at least 8 traces including up to 3 channels of ECG, Two channels of IBP, SPO ₂ , Respiration or CO ₂ . 9. Display should be of high- resolution active TFT with a minimum size of at least 12 inches and shall have a bright screen easily viewable even at a distant from different angles under all lighting conditions. 10. Trend graphing and listing of all monitored parameters shall be possible up to 48hours. 11. Continuous ST segment analysis and arrhythmia analysis of different types shall be possible. 12. All alarm indicators should be graded, prioritized and color-coded according to their severity. 13. Monitors should be compact with all patient connections on one side of the monitor for better cable management. 14. A built-in printer / recorder shall be available. 15. There should be display management features that allow automatic spacing of waveforms according to the number of parameters monitored. 16. Warranty: At least 24 months for the machine and the accessories. 10. Operating voltage shall be 230V (+/-10%), 50Hz AC mains with built in power supply and rechargeable maintenance free batteries. 21. Monitor shall simultaneously display the real time waveforms, numerical data and graph trends. 32. All input connectors shall be color/key coded to avoid incorrect connections. 33. All input connectors shall have provision to monitor process and display following	SmmHg) c. Pulse oxymetry capable of performing accurately under motion and low perfusion conditions. (Range: 0 to 100% & accuracy +/- 2 digits) d. Two IBP with capability to monitor Arterial, CVP or PAP. (range:30 to 300mmHg & accuracy +/- 2mmHg) e. Side Stream EtCO2 module. f. One temperature channel 7. All relevant accessories to monitor above parameters in adult, pediatric and neonate modes shall be provided. 8. Display should be provided. 8. Display should be of high- resolution active TFT with a minimum size of at least 12 inches and shall have a bright screen easily viewable even at a distant from different angles under all lighting conditions. 10. Trend graphing and listing of all monitored parameters shall be possible up to 48hours. 11. Continuous ST segment analysis and arrhythmia analysis of different types shall be possible. 12. All alarm indicators should be graded, prioritized and color-coded according to their severity. 13. Monitors should be compact with all patient connections on one side of the monitor for better cable management. 14. A built-in printer / recorder shall be available. 15. There should be display management features that allow automatic spacing of waveforms according to the number of parameters monitored. 10. Operating voltage shall be 230V (+/-10%), 50Hz AC mains with built in power supply and rechargeable maintenance free batteries. 11. Operating voltage shall be 230V (+/-10%), 50Hz AC mains with built in power supply and rechargeable maintenance free batteries. 12. Monitor shall have configuration setting to adjust for adult, neonatal, or pediatric patient applications. All monitoring measurement algorithms and alarm settings shall be changed in accordance with the setting. 13. All input connectors shall be color/key coded to avoid incorrect connections. 14. A budy the provision of the monitor process and display following

		a. ECG/Respiration with HR	Yes □ No □	
		b. NIBP (Range: 25 to 250 mmHg & accuracy +/-5mmHg)	Yes □ No □	
		c. Pulse oxymetry capable of performing accurately under motion and low	Yes □ No □	
		perfusion conditions. (Range: 0 to 100% & accuracy +/- 2 digits)		
		6) All relevant accessories to monitor above parameters in adult, pediatric and neonate	Yes □ No □	
		modes shall be provided.	.,	
		Display should have the capability to display at least 4 traces including ECG, SPO ₂ , and Respiration	Yes □ No □	
		8) Display should be of high- resolution active TFT with a minimum size of at least 8.4 inch	Yes □ No □	
		and shall have a bright screen easily viewable even at a distant from different angles under all lighting conditions.		
		9) Trend graphing and listing of all monitored parameters shall be possible up to 24 hours.	Yes □ No □	
		10) The unit shall be incorporated visual and audible alarm facility for all important	Yes □ No □	
		parameters. All alarm indicators should be graded, prioritized and color-coded according to their severity.		
		11) Monitor should be compact with all patient connections on one side of the monitor for	Yes □ No □	
		better cable management 12) The system must be covered by a comprehensive parts & labour warranty for a period of	Yes □ No □	
		at least 24 months from the date of final acceptance.	103 110 1	
		13) One set of detailed operational and service manuals must be supplied.	Yes □ No □	
		14) A statement of compliance to every clause and sub clause of this document must be	Yes □ No □	
		supplied with the bid.		
		15) Warranty: All the accessories shall be warranted for at least 2 years	Yes □ No □	
4	Defibrillator	1. The equipment shall he suitable for use on both AC mains 230 V +/- 10% and Internally rechargeable battery. The internal battery should be able to deliver at least 100 discharges at 360J energy level.	Yes 🗆 No 🗆	4
		2.The unit shall consist of	Yes □ No □	
		Defibrillator	Yes 🗆 No 🗆	
		ECG-Monitor	Yes 🗆 No 🗆	
			163 1110 1	
		Built in Recorder Defibrillator shall have the following features:	Yes □ No □	
		3.Defibrillator — shall have the following features:	Yes 🗆 No 🗆	
		Discharge waveform Type: Biphasic Output Engry 2014 2001 aggrees 100/ or better	Yes 🗆 No 🗆	
		Output Energy: 2J to 360J-accuracy 10% or better. Charging Times 2 Connected and accuracy 10% of better. Charging Times 2 Connected and accuracy 10% of better.	Yes 🗆 No 🗆	
		Charging Time: 8 Seconds or less, to (360J) Maximum Energy level. Facility (an Magazal and Automatic Entrangle Defibilitation (AED))	Yes 🗆 No 🗆	
		Facility for Manual and Automatic External Defibrillation (AED).	Yes 🗆 No 🗆	
		Quick recovery of ECG Wave form (3 seconds or better)	Yes 🗆 No 🗆	
		Digital display of energy set and energy delivered.	.50 =	

	 Facility for monitoring at least 150 minutes and delivering at least 100 shocks of 360J 	Yes □ No □	1
	on fully charged battery		1
	Battery low-level indication.	Yes □ No □	1
	 Should be supplied with External paddles for both adult and pediatric use. 	Yes □ No □	1
	A minimum number of dedicated hard keys to operate for quick defibrillation in	Yes □ No □	1
	emergencies.	V N-	1
	 ECG derivation via paddles and ECG cable (3/5 lead) 	Yes - No -	1
	Defibrillator self-testing facility	Yes □ No □ Yes □ No □	1
	Standard Pacing facility	Yes No	1
	 Pacing, SpO2 Monitoring as an option 	Yes No	1
	 Should have facility to enter patient info and storing of critical event record 	Yes - No -	1
	 Original printed technical data/brochures us to be provided 	Yes - No -	1
	IPX 4 Standard	TES LINUL	1
	4.ECG Monitor	Yes □ No □	1
	 The monitor screen shall be Two Trace (ECG & SpO2-optional). Color LCD Type 	163 110 1	1
	measuring at least 7 inch diagonally.	Yes □ No □	1
	 It shall he possible to select and display lead I, II and III ECG waveforms. Display 	103 110 1	1
	sweep speed : 25mm/ sec	Yes □ No □	1
	 Shall have Continuous Patient Surveillance System (CPSS). 		1
	 Shall incorporate ESU noise filtering and Defibrillator discharge protection. 	Yes □ No □	1
	 Shall have a heart rate display range from 20 to 350 bpm, with pre-settable high and 	Yes □ No □	1
	low alarm settings.	Yes □ No □	1
	5.Printer		1
	 Shall operate manually and also automatically wider conditions. 		1
	 Shall automatically print out Defibrillator data on each Defibrillator Performed. 	Yes □ No □	1
	 Printing of a summary report of comparison Pre-shock ECG with post shock ECG 	Yes □ No □	1
	shall he possible.	Yes □ No □	1
	6.Optional- Monitoring of SpO2		1
	Pulse tone and the Pleth wave form		1
	Saturation Accuracy: (70-100%)	Yes □ No □	1
	Adult/Peadiatric +/- 2 digits (during no motion conditions)	Yes □ No □	1
	+/- 2 digits (during motion conditions)	Yes □ No □	1
	Neonates +/- 3 digits (during no motion conditions)	Yes 🗆 No 🗆	1
	+/- 3 digits (during motion conditions)	Yes □ No □	1
	7. The unit shall be supplied with a 3-pin hospital grade plug top.	Yes □ No □	1
	8. The equipment shall have a patient leakage current of less than 10 micro Amps and chassis	Yes □ No □	i .

		leakage current of less than 100 micro Amps.		
		9. Warranty: The machine shall carry a two years warranty on "full parts and labour " basis.	Yes □ No □	
	0 " 0 "	1. The had shall be designed to manage the noticest conveniently and its dimension shall	Yes □ No □	
5	Cardiac Bed	 The bed shall be designed to manage the patient conveniently and its dimension shall be 2150L x 1000W x 450-700H mm approximately. 	res 🗆 No 🗆	10
		2. It shall be made of stainless steel with 150 mm strong caster wheels and of which two	Yes □ No □	
		shall be with break facility. Should have Central locking castors with 2 total & 2	163 110 1	
		directional lock		
		3. Should have 2-way Tilting – Trendelenburg (12°) & Reverse Trend (6°) by gas activation	Yes □ No □	
		4. Should have a quick release lock for immediate CPR positioning of the bed	Yes □ No □	
		5. The Bed shall rest on rubber buffers at four corners.	Yes □ No □	
		The height of the bed shall be adjusted by hydraulic foot pump.	Yes □ No □	
		7. The back rest and leg rest shall be adjusted for the convenient position by hand crank	Yes □ No □	
		8. The head and foot panels should be Removable ABS-moulded head and foot board, with	Yes □ No □	
		Maica lamin with laminated panels.		
		9. The bed shall include a mattress, stainless steel I.V. rod and collapsible side railings.	Yes □ No □	
	01	10. Warranty: 24 months from the date of delivery.	Yes 🗆 No 🗆	_
6	Obstetric Bed	The unit shall be operated by hydraulic system. The dimension of the bed shall be approximately L1400-2040 x W900 x H550-900mm with	Vaa – Na –	7
		The dimension of the bed shall be approximately L1400-2040 x W900 x H550-900mm with three sections, made of stainless steel with collapsible side railings. Should have Detachable	Yes □ No □	
		ABS head and foot boards		
		2. The head section shall be adjustable and the leg section shall be removable from main	Yes ⊓ No ⊓	
		frame.	100 - 110 -	
		3. Gas spring shall assist for Trendelenberg and reverse Trendelenberg of 25°.	Yes □ No □	
		4. Bed pan urine pot may be automatically fixed in the chamber.	Yes □ No □	
		5. The unit shall include standard accessories:		
		- Stainless steel fluid collection bowl	Yes □ No □	
		 Solid stainless steel flat bar to clamp; 	Yes □ No □	
		- Stainless steel adjustable hand grip	Yes □ No □	
		 Stainless steel adjustable foot stirrup support 	Yes □ No □	
		- Stainless steel adjustable leg rest	Yes □ No □	
		6. Warranty: 24 months from the date of delivery.	Yes 🗆 No 🗆	_
7	Transport	1. The unit shall be used in transporting the critical conditioned infants from and to hospitals	Yes □ No □	2
	Incubator	2. The power supply to unit shall be by a generator supply of 230V 10% 50Hz or by a	Yes 🗆 No 🗆	
		rechargeable battery supply. 3. A voltage stabilizer shall be provided with the system.	Yes □ No □	
		4. The unit shall display the skin temperature, air temperature, set temperature & humidity with	Yes - No -	
	1	+. The unit shall display the sam temperature, all temperature, set temperature a numbility with	169 140	

	1			1
		precise temperature control system with air circulation fan.		
		5. The matters size shall be approximate by 55 cm x 32cm	Yes □ No □	
		6. The unit shall have easy access to infant with snap – open access holes for tubing	Yes □ No □	
		7. The unit shall be provided with audible and visual alarms for safety system	Yes □ No □	
		8. The unit should consist of the following accessories		
		Skin temperature probe – 01 No.	Yes □ No □	
		Dust cover – 01 No.	Yes □ No □	
		Bacteria filter – 10 No.	Yes □ No □	
		Collapsible Cart – 01 No. with facility to mount two Oxygen cylinders	Yes □ No □	
		6. Warranty: 24 calendar months from the date of successful commissioning on full parts &	Yes □ No □	
		labour basis		
8	Transport	The unit shall suitable for use in the ambulances for transportation purposes.	Yes □ No □	2
	Monitor	2) The unit shall operate on 230V (+/-10%), 50Hz AC mains and re-chargeable batteries	Yes □ No □	_
	Wormton	operatable for at least 5 hrs and there shall be a battery indicator.		
		3) Monitor shall have configuration setting to adjust for adult, neonatal, or pediatric patient	Yes □ No □	
		applications. All monitoring measurement algorithms and alarm settings shall be		
		changed in accordance with the setting.		
		4) All input connectors shall be color/key coded to avoid incorrect connections.	Yes □ No □	
		5) Monitor shall simultaneously display the real time waveforms, numerical data and graph	Yes □ No □	
		trends.		
		6) All bedside Monitor shall have provision to monitor, process and display following		
		parameters in different colors.		
		a. ECG/Respiration with HR	Yes □ No □	
		b. NIBP (Range: 25 to 250 mmHg & accuracy +/-5mmHg)	Yes □ No □	
		c. Pulse oxymetry capable of performing accurately under motion and low	Yes □ No □	
		perfusion conditions. (Range: 0 to 100% & accuracy +/- 2 digits)		
		7) All relevant accessories to monitor above parameters in adult, pediatric and neonate	Yes □ No □	
		modes shall be provided.		
		Display should have the capability to display at least 6 traces including ECG, SPO ₂ , and	Yes □ No □	
		Respiration		
		9) Display should be of high- resolution active TFT with a minimum size of at least 10	Yes □ No □	
		inches and shall have a bright screen easily viewable even at a distant from different		
		angles under all lighting conditions.		
		10) Trend graphing and listing of all monitored parameters shall be possible up to 24 hours.	Yes⊓No⊓	
		11) The unit shall be incorporated visual and audible alarm facility for all important	Yes 🗆 No 🗆	
		parameters. All alarm indicators should be graded, prioritized and color-coded according	100 110 1	
		to their severity.		
	<u> </u>	l to their seventy.		

		12) Warranty: The system must be covered by a comprehensive parts & labour warranty for	Yes □ No □	
		a period of at least 24 months and all the accessories shall be warranted for at least 1		
	Tueses and	year. 1. The unit should operate on both battery power for at least 8 hours and 230 V AC, 50 Hz.	Yes □ No □	
9	Transport	2. The unit should be designed to be used with Oxygen gas cylinders with air entrainment for		3
	Ventilator	increased life time when used with Oxygen cylinders.	ies ino i	
		Suitably designed for Ambulance and inter-hospital use.	Yes □ No □	
		4. Operating modes shall be CMV, SIMV, CPAP with Pressure Support Ventilation.	Yes - No -	
		5. The equipment should have following minimal parameters for user settings:	163 110 1	
		Peak pressure 0 - 120 cmH2O	Yes ⊓ No ⊓	
		• Flow rate 1 -1120 lpm	Yes 🗆 No 🗆	
		· ·	Yes 🗆 No 🗆	
			Yes 🗆 No 🗆	
		PEEP pressure 0 - 35 cmH2O Pressure 2 - 50 cmH2O	Yes - No -	
		Pressure support 0 - 50 cmH2O	Yes 🗆 No 🗆	
		• SIMV rate 6 - 30 bpm	103 110 1	
		6. Transport ventilator should be supplied with the followings:	Yes □ No □	
		Oxygen gas supply hose and regulator	Yes 🗆 No 🗆	
		Adult reusable patient circuits 05 nos.	Yes 🗆 No 🗆	
		Paediatric reusable patient circuits 05 nos.	Yes - No -	
		Test lung	Yes □ No □	
		Bacteria Filter 50 Nos.	Yes □ No □	
		Oxygen Sensor O3 Nos.		
		7. Shall have following alarms:		
		High/Low pressure	Yes □ No □	
		High/Low breath rate	Yes □ No □	
		High/Low Oxygen %	Yes □ No □	
		Low battery	Yes □ No □	
		8. Warranty: full two years comprehensive warranty.	Yes □ No □	
		9. Ventilator should be equipped with a dual heated servo-controlled humidifier system with	Yes □ No □	
		adult and paediatric humidifier chambers and accessories.		
10	Infant Incubator	1. The unit shall operate on a power supply of 230 V _± 10% 50Hz.	Yes □ No □	6
		2. The unit shall display the skin temperature, Air temperature, set temperature & Servo	Yes □ No □	-
		humidity control with precise temperature control system with air circulation fan.		
		3. The mattress size shall be approximate by 55cm x 32 cm	Yes □ No □	

11 Int	conformation	 The unit shall have easy access to infant with snap – open access and access holes for tubing. There shall be facility to increase the O₂ concentration inside the hood. The unit shall be provided with audible and visual alarms for safety system. The unit shall be with variable positions of trendeleburg / fowler The unit should consist of the following accessories. a. Skin temperature probe-01 No b. Dust cover – 01 No c. Bacteria filter -01 No The unit should be mounted on trolley with two drawers Should have double wall construction to minimize heat loss Should have built in X-ray cassette tray to inser X-ray cassette Should have built-in weighing scale to monitor continuous weight gain Warranty: 24 calendar months from the date of successful commissioning on full parts & labour 	Yes No Yes Yes No Yes Yes No Yes Yes	
_	erferential ierapy Unit	 The unit shall operate 230±10%, 50 Hz, single phase supply. The power code shall be supplied with a B.S. 3-pin plug. Output waveform should be sine wave and burst wave. Treatment frequency shall be up to 200 Hz. Basic frequency shall be selectable from 2000 Hz to 5000 Hz. Stimulation form should be 2 directional, 4 directional, wide area and bipolar. Treatment time shall be selectable in steps of 1 min up to 90 min. Output should be of minimum 2 channels. There should be programs software for memory and performance. Maximum output shall be 6 to 8 Watts. The following safety features should be included Over current protection Over heat protection Safety self return The following accessories should be included Receptacles for mild pack O4 nos. Gel electrodes O4 nos. 	Yes No Yes Yes No Yes Yes No Yes Yes	2

		Suction electrodes 04 nos.	Yes □ No □	
		12. Warranty: 24 months from the date of commissioning on a full parts & labour basis.	Yes □ No □	
13	IR Lamp Shortwave Therapy Unit	 The IR Lamp shall operate on a 230V, 50Hz, single-phase main supply. The IR Lamp should include timer and density controller. The power of the lamp shall not be less than 150 W. The maximum treatment time shall be not less than 50 min. The unit price of the IR lamp (bulb) shall be quoted separately. Warranty: 24 months from the date of commissioning on a full parts & labour basis. The warranty details of the lamp (bulb) shall be given separately. Operating voltage shall be 230V mains 10%, at 50HZ. The generator frequency shall be 27.12 MHZ. Both pulse and continuous modes shall be available. Power output shall be adjustable in the range of 0 to 400 W in continuous mode and up to 1000 W in the pulse mode. Pulse mode shall operate with a pulse width of about 400 microseconds in the adjustable frequency range of 15 to 200 HZ. The actual power delivered shall be indicated on the LCD display. The unit shall have extensions-index with treatment proposals The unit shall have individual program memories Automatic tuning shall be available both on pulse and continuous modes. The unit shall be fitted with a treatment timer of 30 minutes duration with acoustic signal and automatic switch off. Holdings arms shall be robustly constructed and have adjustable multi joints for convenient positioning. The unit shall be mounted on four lockable large castors. It shall conform to IEC 601 or similar for electrical safety. The equipment shall be supplied with a power cord connected with a hospital grade 3 round pin plug top. Following accessories shall be supplied with each unit. Capacitive electrodes (3 sizes: large, medium and small) 	Yes No Yes Yes No Yes Yes	2
		 One circular plod Flexible rubber electrodes with spacers (Different sizes) 16 Warranty: Two years on full parts and labour basis. 	Yes - No - Yes - No - Yes - No -	

Signature of the Bidder	
	(Common Seal of the Company)
Name & address of the Company -	

General

- 1. A complete and detailed set of operation, service and maintenance manuals in English must be supplied with each unit.
- 2. Fully graphic, illustrated original technical literature in ENGLISH describing the equipment offered & detailing the specifications shall also be supplied with the offer.

Annexure B: Price Schedule Form

B- 1 : Price Schedule for Supply and Installation of Diagnostic and Laboratory Equipment

SN	Equipment and instrument	Req. No	Rate per Unit (SLR. or INR. as applicable)	Custom duty, Sales Tax or other taxes (SLR. or INR. as applicable)	Total amount with Custom duty and taxes (SLR. or INR. as applicable)	Total amount without Custom duty and taxes (SLR. or INR. as applicable)
1	Colour Doppler Ultrasound Scanner	1				
2	Video Endoscope	1				
3	Laparosope - Diagnostic & Therapeutic	1				
4	Mobile X-Ray Machine	1				
5	Wax Bath	2		•		1)

(Please submit separate forms for any alternate models proposed) VAT registration number(if applicable) Total amount in words; Sri Lankan Rupees Signature of the Bidder (Common Seal of the Company) Name & address of the Company -..... Name address of the Authorized Officers: Telephone Number - Fax Number -..... Date/ 2011

B -2 : Price Schedule for Supply and Installation of Operation Theatre <u>Equipment</u>

SN	Equipment and instrument	Req. No	Rate per Unit (SLR. or INR. as applicable)	Custom duty, Sales Tax or other taxes (SLR. or INR. as applicable)	Total amount with Custom duty and taxes (SLR. or INR. as applicable)	Total amount without Custom duty and taxes (SLR. or INR. as applicable)
1	High Pressure Sterilizer – 150 L	2				
2	Anaesthesia Machine	1				
	Ventilator	1				
3	Operation Theatre Lamp	2				
4	Operation Theater Table	2				
5	Diathermy Machine	3				
6	Dryer	2				
7	Ironer	2				
8	Washing Machine with Extractor	2				
9	Ultrasonic Cleaner	2				
10	Electrotherapy Stimulator	2				

(Please submit separate forms for any alternate models proposed)

val registration numberapplicable)	(ıf
Total amount in words; Sri Lankan Rupees	
Signature of the Bidder	
Name & address of the Company -	(Common Seal of the Company)

•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Name address of the Authorized C	fficers:	
Telephone Number		umber -
Date/ 20010		

B-3 : Price Schedule for Supply and Installation ICU Equipment & Others

SN	Equipment and instrument	Req. No	Rate per Unit (SLR. or INR. as applicable)	Custom duty, Sales Tax or other taxes (SLR. or INR. as applicable)	Total amount with Custom duty and taxes (SLR. or INR. as applicable)	Total amount without Custom duty and taxes (SLR. or INR. as applicable)
1	Therapeutic Ventilator	5				
2	Multipara Monitor with Capno	3				
3	Multipara Monitor – Basic	4				
4	Defibrillator	4				
5	Cardiac Bed	10				
6	Obstetric Bed	7				
7	Transport Incubator	2				
8	Transport Monitor	2				
9	Transport Ventilator	3				
10	Infant Incubator	6				
11	Interferential Therapy Unit	2				
12	IR Lamp	2				
13	Shortwave Therapy Unit	2				

VAT registration numberapplicable)	(if
Total amount in words; Sri Lankan Rupees	
Signature of the Bidder	
Name & address of the Company -	(Common Seal of the Company)

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			•••••
Name address of the Authorized Off	ficers:		
Telephone Number		Fax Number -	••••••
Date/ 2011			

Annexure C: Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Da	ate:
No).:
То:	
WHEREAS	
We, who, having factories], do hereby authorize	ories at [insert full address of to submit a wing Goods, manufactured by us
We hereby extend our full guarantee and warranty in Conditions of Contract, with respect to the Goods offe	
Signed:	
Name:	
Title:	
Duly authorized to sign this Authorization on behalf or	f:
Dated on day of	-,·

Annexure D

BID BOND FORM

Wher	eas
	DERER" has submitted his/their Tender dated For the supply and
	lation of Medical Equipment in Kilinochchi and Mullaitivu District", as per specification
	ule annexed. Know all men by these presents that we
	(Here in after called the Bank) are bound to the
	. (Here in after called THE PURCHASER) in the
sum o	of for which payment well and truly to be made to the said PURCHASER The
	binds itself, its successors and assigns by these presents sealed with the common seal of the said
	this Day of 2011.
The c	onditions of the obligation are:
1.	If the TENDERER withdraws his bid during the period of bid validity specified by the
1.	TENDERER on the bid form or
2.	If the TENDERER having being notified of the acceptance of his bid by the PURCHASER'
	during the period of Bid validity
a.	Fails or refuses to execute the CONTRACT.
	Or
	OI .
b.	Fails or refuses to furnish the performance bond. We undertake to pay to the PURCHASER up
	to the above amount upon receipt of his first written demand, without the PURCHASER having
	to substantiate his demand PURCHASER will state that the amount claimed by him is due to
	him owing to the occurrence of one or both conditions, specifying the occurred condition or
	conditions.
	This guarantee will remain in Force up- to and including 120 days after the period at BID
	validity, and any demand in respect thereof should reach the BANK not later than the above
	date.
	Signature of the Bank

Annexure E

PERFORMANCE BOND FORM

"Supply and installation of Medical equipment in Kilinochchi and Mullaitivu"

Whereas hereinafter Called "The SUPPLIER" has undertaken, in pursuance of CONTRACT dated 2011 to supply and installation of Medical equipment in Kilinochchi and Mullaitivu District.

Hereinafter called "The CONTRACT" and where as it has been by you in the said CONTRACT that the SUPPLIER shall furnish you with a "Bank. Guarantee" by a recognized Bank for the sum specified herein as security for compliance with the SUPPLIER's performance obligation in accordance with the CONTRACT and whereas we agreed to give the SUPPLIER a Guarantee.

Thereof we hereby affirm that we are guarantors and responsible to you on behalf of SUPPLIER, up to a total of and we undertake to pay you upon, your first written demand declaring the SUPPLIER to be in default under the CONTRACT and without cavil or argument any sum or sums within the limits of				
ignature and the Seal of the Bank				
	y tender wo			
ignature				
in the capacity of				
N BLOCK CAPITAL LETTERS)				
Jame :				
VITNESSES				
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