

# GOVERNMENT OF SINDH CIVIL HOSPITAL, KARACHI

# TENDER NO. (CHK)/2014-2015/3163

# TENDER FOR THE PURCHASE OF MEDICAL EQUIPMENT FOR WELFARE SOCIETY FOR PATIENT CARE UNDER ADP SCHEME # 787/2014-15 THROUGH CIVIL HOSPITAL, KARACHI <u>DUE ON 25-05-2015</u>

COST OF TENDER DOCUMENTS:	Rs. 1000/= Rupees One Thousand Only (Non-Refundable)
TENDER SELLING DATE :	From the date of publishing to day before opening
TENDER SUBMISSION DATE AND TIME:	On 25-05-2015 from 9.00 a.m. to 11:00 a.m.
TENDER SUBMISSION PLACE :	Office of the A.M.S (Procurement) 1 <sup>st</sup> Floor Admin Block, Civil Hospital, Karachi
TENDER OPENING DATE AND TIME :	On 25-05-2012 at 12.00 Noon.
TENDER OPENING PLACE :	Board Room 2 <sup>nd</sup> Floor Administration Block Civil Hospital, Karachi

Note: Any bid submitted late due to any reason, whatsoever shall not be considered by the Hospital Procurement Committee.

### **INSTRUCTIONS**

Bidders are required to comply all the clauses mentioned in the terms and conditions of the tender and any deviation/breach will forbid them from competing in the tender.

In this tender <u>TWO ENVELOPS PROCEDURE</u> as per SPPRA 2010 Rules (Amended 2013/14) will be followed (single stage two envelops procedure Rule 46 (2) SPPRA 2010) i.e. TECHNICAL and FINANCIAL bids will be submitted in a separated sealed envelope.

- a) In the Technical Bid, the bidder **must attach** copy of Security Deposit's Pay order / Bank Grantee without amount the same may be deleted with Black Marker or White Fluid, detailed technical quotation, original technical brochures and all other required certificates. The technical evaluation will be done on the basis of documents submitted along with technical bid as per given criteria in tender documents.
- b) In Financial bid, the vendor should submit rate of the equipment/items and Bid Security in shape of pay order / bank guarantee / call deposit receipt 2.5% of total bid value (In Original) in favor of Medical Superintendent, Civil Hospital, Karachi.

### **TERMS AND CONDITIONS:**

- i. Free installation along with all accessories including labor charges/Demonstration at consignee's end must be confirmed by the bidder.
- ii. One year free service from the date of installation and undertaking regarding availability of spare parts for at least 05 years may also be confirmed by the bidder.
- iii. Manufacturer/ Sole Agent are eligible to participate in the tender. Sole agency certificate of the quoted item from the Manufacturer must be attached by the bidder. Agency certificate must be valid for 3 years.
- iv. Bidders must have at least one year past experience of representation of Manufacture for quoted items.
- v. The service manual with circuit diagram must be provided with quoted mentioned item.
- vi. The supplier will be bound to train nominated technical personnel to operate the supplied equipment.
- vii. Profile of the technical staff and address of the Bio-Medical workshop as well as list of hospitals in which the quoted equipment are working must be attached.

#### Delivery period: \_\_\_\_\_

#### Validity: 90 Days As per SPPRA

- 1.1 In this tender two envelopes procedure as per <u>SPPRA 2010</u> Rules (Amended 2013/14) will be followed i.e. Technical and Financial proposal separately, i.e. single stage two envelops system. The envelope must contain tender enquiry no. on the top and TECHNICAL /FINANCIAL PROPOSAL clearly in order to avoid any confusion.
- 1.2. Tender, which does not fulfill the prescribed conditions of the tender is liable to be rejected.
- 1.3. In financial bid, the vendor should mentioned financial offer along with 2.5% deposit at call/Pay order/Demand draft in favor of Medical Superintendent, Civil Hospital, Karachi.
- 1.4 However the bidders are required to enclose the copy of call deposit/pay order/demand draft without showing any amount along with the technical offer else the bid will be rejected.
- 1.5 Initially only envelops marked as "TECHNICAL PROPOSAL" shall be opened.
- 1.6 The envelop marked as "FINANCIAL PROPOSAL" shall be retained in the custody of the procuring agency (PA) without being opened.
- 1.7 The disclosure of firm's equipment quoted rate at any manner at the time of opening of technical proposal will result in to rejection of the bid.
- 1.8. Tenders must be filled in with Blue or black ink in the column provided and on separate letterhead duly signed.
- 1.9. The tenders must be free from erasing, cutting and over writing. In case of erasing, cutting and over writing, authorized person should be initial it duly stamped.

- The rates of each item should be written in figures as well as in words. In case of discrepancy the price in 1.10. words will be taken as authenticate and final.
- 1.11. Conditional tenders will be ignored and will not be considered /entertained /accepted.
- 1.12. The offered on D.D.P basis (In Currency of Pak Rupees) should be inclusive of all applicable taxes, income and sales tax etc payable to federal and provincial Govt. or local bodies and no claims on these account shall be entertained.
- The bidder shall furnish General Sales Tax (GST) Registration certificate of the firm failing which the 1.13. offer will be ignored. In case the item is exempted from GST either documentary evident or certificate from competent authority shall be attached with the offer.
- Supply order (s) will be placed on D.D.P basis in Pak Rupees to the Contractors/Suppliers, as the current 1.14. financial year is near to end. To avoid lapse of funds the bills will be claimed from office of the Accountant General Sindh after getting necessary guarantee from the Contractors / Suppliers in shape of pay order, demand draft, call deposit receipt Bank Guarantee in favor of procuring agency (PA) equivalent of the claimed amount the same will be refunded to the Contractors/Suppliers after receiving the equipment as per the required specification.
- The bidder shall furnish copy of valid professional tax certificate and Income tax certificate. GST and 1.15. Sindh Sales Tax (If applicable). Else the offer will not be considered.
- 1.16. In case of x-ray equipment, bidder must have valid PNRA registration as an importer. Copy of PNRA certificate must be attached along with technical proposal.
- The original catalogue must accompany with offer and the equipment should comply/certified at CE/FDA 1.17. standards.

#### 2. **SPECIAL CONDITION:**

- 2.1 Bidders are required to specify make, country of origin and furnish detailed technical description literature/catalogue along with their technical offer, else offer will not be entertained.
- 2.2 Choice to select/ignore any their alternate offers shall rest with the purchaser.
- No Manufacturer shall authorize their distributor/agent/any firm or person to quote the same item which 2.3 manufacturer is quote it-self in any tender. Failing that offer of both the manufacturer as well as other bidder shall be ignored.

#### Purchaser's right to vary quantities at time of award. 3.

The purchaser reserves the right to increase/decrease or drop the quantity of goods etc at the time of award of contract and also reserves the right to enhance the quantity by 15% of goods and services originally specified in the schedule of requirements without any change in unit price of other terms and conditions of goods at any time during contract period.

#### Notification of Award/Advance contract: 4.

- 4.1.1 Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing, delivery by hand or by register letter by cable to be confirmed in writing by register letter that is bid has been accepted.
- The notification of award will constitute the formation of the contract. 4.1.2

#### 5.

<u>Award of contract and contract agreement</u> Subject to the fulfillment of all codal formalities, the purchaser will award the contract to the successful bidder who's bid has been determined to be qualified to perform the contract satisfactory.

#### 6. <u>Performance Security</u>

The successful bidders will have to deposit with the purchase security deposit as under in shape of call deposit/pay order at the rate of 2.5% of the value of contract.

7.	Criteria for evaluation of bids	YES	NO
a.	Specification compliance/preferred function		
b.	After sale service facility (in case of equipment)		
c.	Sole agency from Manufacturer		
d.	Operational cost (in case of equipment )		
e.	Delivery schedule – As per Bid Document		
f.	Bid Security 2.5 % of the quoted amount.		

#### 8. Award of Contract:

Stamp duty on Non Judicial Stamp paper @ 0.30% paisa at Rs.100/- basis of the value of the contract.

#### 9 <u>Undertaking</u>

- 9.1 That I/We agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
- 9.2 I/We undertake that; if any of the information submitted in accordance to this tender enquiry found incorrect our contract may be cancelled at any stage on our cost and risk.

### **CERTIFICATE**

We guarantee to supply the sores exactly in accordance with the requirement specified in the invitation to this tender.

Signature of Bidders: \_\_\_\_\_

Name & Designation: \_\_\_\_\_

Address: \_\_\_\_\_

Rubber Stamp Of Firm.\_\_\_\_\_

# Annexure "B"

# QUESTIONNAIRE / PERFORMA (To be filled in by the vendor all the quoted item.)

Model	
1- Year of Introduction of the offered model: Version (if same model revised):	
Version (if same model revised):	
2-       Number of equipment installed (Please provide names of institution for Pakistan)         -       In Pakistan.         -       In Karachi         3-       Manuals to be provided:         Yes       No         -       Service.         -       Parts List         -       Electrical Drawing/ Schematics         -       Operational/ Application         4-       Spare parts Availability Guarantee (No of years):         5-       Source of spares availability         -       Local	
<ul> <li>World wide.</li> <li>In Pakistan.</li> <li>In Karachi</li> <li>Manuals to be provided: Yes No</li> <li>Service.</li> <li>Parts List</li> <li>Electrical Drawing/ Schematics</li> <li>Operational/ Application</li> <li>Spare parts Availability Guarantee (No of years):</li> <li>Source of spares availability</li> <li>Local Overseas</li> </ul>	
In Pakistan.	n/ Karachi)
-       In Karachi	
3-       Manuals to be provided:       Yes       No         -       Service.	
<ul> <li>Service</li></ul>	
<ul> <li>Parts List</li></ul>	
<ul> <li>Electrical Drawing/ Schematics</li></ul>	
<ul> <li>Operational/ Application</li></ul>	
<ul> <li>4- Spare parts Availability Guarantee (No of years):</li> <li>5- Source of spares availability</li> <li>- Local Overseas</li> </ul>	
5- Source of spares availability     Lead time       - Local     Overseas	
- Local Overseas	
6- Equipment life period (number of years)	
7- Do you hold specialized tools/test equipment required for:	
- Maintenance Yes No N/A	
- Calibration	
Please provide list of tools/test equipment including their calibration status on a sep	arate sheet.
8- Annual Maintenance contract Price:	
- Parts and Labor:	
- Labor without parts:	
9- On call service charges:	
- Minimum:	
- Per day:	

10-	In case of in house main provide following during			neers are y	rou willing to	)
-	Back up engineer suppo	ort whenever	requested	d:	Yes	No
-	Prompt supply of spares	/ consumab	les:			
11-	Are you authorized repre	esentative of	manufact	urer:		
12- 13-	No of Factory trained er on offered equipment (p Certificate & years of ex Total number of years in	orovide traini (perience):		illy		
14-	Warranty period (please		wing deta	ails:		
-	Uptime Guarantee:	•	Ũ			%
-	Response time to maint	enance requ			Hrs	
-	No of PPM/Year:	·				
-	Any other:					
15-	Do you have any objecti specification spares of a during warranty of maint	Iternate/ oth	er manufa	cturer	Yes	No 
6- -	Comprehensive CHK En If yes state what include Training Fees	gineer Traini			Yes	No 
-	Airfare					
-	Boarding/Lodging					
-	Free of charge					
-	None of the above					
17-	Up-gradation possibility:					
-	Hardware	YES / NC		Software	YES / NO	)
-	If above has any cost pl	ease provide	the detai	ls of up-gra	adation with	estimated price:
Ple	ase state safety standard	conformanc	e (e.g. IE0	C 601,FDA	, AAMI etc):	
18-	Pre-Installation services	s requiremer	ts:			
Pov	wer:	KW	Voltage	·		Single/Three phase
Gas	::					_ Gallons/ Liter Hour
(lf p	pre-treated water required			s)		
Air_		· ·			/	mmgh

Other:
(e.g. Drain, Exhaust, Physical facility change etc) Installation time:
Installation/ commissioning by whom:
19- Environmental Parameters Limits:
- Temperature to centigrade/ Fahrenheit
- Humidityto% RH.
IEC 601- International Electro Technical commission (Code 601)
AAMI - American Association for medical instrumentation.
20- Any other specific requirement (e.g. UPS, Voltage Stabilizer etc, provide details):
21- Briefly state facilities and benefits provided during warranty period:
22- Please give the rates of consumable, Disposable items and parts required for proper functioning of Machine /equipment life period of each item (in days /months ).
Note: (The said Performa should be filled by the vendor to provide information of all the quoted item.) Supplier's Name:

Authorized Signature:\_\_\_\_\_ Designation\_\_\_\_\_

# Annexure- "C"

# Contract Form

**THIS AGREEMENT** made the \_\_\_\_\_ day of \_\_\_\_\_ 2015\_\_\_\_ between [name of Procuring Agency] of [country of Procuring agency] (here in after called "the Procuring agency") of the one part and [name of Supplier] of [city and country of Supplier] (here in after called "the Supplier") of the other part:

WHEREAS the Procuring agency invited bids for certain goods and ancillary services, viz. [brief description of goods and services] and has accepted a bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures] (here in after 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) the Bid Form and the Price Schedule submitted by the Bidder;
  - (b) the Schedule of Requirements;
  - (c) the Technical Specifications;
  - (d) the General Conditions of Contract;
  - (e) the Special Conditions of Contract; and
  - (f) the Procuring agency's Notification of Award.
- 3. In consideration of the payments to be made by the Procuring agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring agency to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract
- 4. The Procuring agency 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.

Signed, sealed, delivered \_\_\_\_\_\_ by \_\_\_\_\_ the (for the Procuring Agency)

Signed, sealed, delivered \_\_\_\_\_\_ by \_\_\_\_\_ the (for the Supplier)

## Annexure- " E "

## SCHEDULE FOR INVITATION TENDER FOR EQUIPMENT FOR PURCHASE OF MEDICAL EQUIPMENT FOR WELFARE SOCIETY FOR PATIENT CARE UNDER ADP SCHEME # 787/2014-15 THROUGH CIVIL HOSPITAL KARACHI

ltems #	Description	Quantity	Quoted		Remarks
			Yes	No	
1	Hemodialysis Machine	10 Nos.			
2	Reprocessing Unit	01 No.			
3	OT Light	01 No.			
4	OT Table	01 No.			
5	Surgical Beds (Dialysis Chair)	03 No.			
6	Surgical Beds (Dialysis Recliners)	03 No.			
7	Crash Trolley	03 No.			
8	Stretcher	13 Nos.			
9	Autoclave	01 No.			
10	Ventilator	04 Nos.			
11	Fluoroscopy with DR System 500mA	01 No.			
12	ABG Machine System	01 No.			
13	Syringe Pump	10 Nos.			
14	Echo Color Doppler	01 Nos.			
15	Patient Monitor	11 Nos.			
16	Defibrillator	01 No.			
17	Diathermy	01 No.			

Items	Description Hemodialysis Machine with all Standard Accessories		Qty	Rates on D.D.P Basis In words and Figure			
1			10 Nos.				
	Model:		Make:		Country of	Origin:	
	Specifications	<b>;:-</b>			Conf	irmed	Difference / Deviation
					Yes	No	
	Dialysis machine	e complet	e with battery backup				
		•	ble of Acetate Dialysis, solated Ultra-filtration				
	LCD Touch contr	ol Panel,	8" or more screen.				
		ow and	neters such as UF Goal, UF Syringe Flow 2 or more				
	Double Chambe control	er System	to precise UF Volumetric				
	CPU System for	Control					
	Driving and Mon Sensors for Syr speed	-	inctions. ick for Syringe fitting and				
		•	n self check of the closed or reverse rotation of blood				
	Supply Water Flo	ow 600 n	nl/min or more				
	Dialysis Flow 400	0-600 ml ,	/ min				
	UF rate 0.00 – 3.	.00 L / h c	r better				
	UF volume 0.0 Bicarbonate / Ac		or more Dialysate type				
	Dialysis Conduct	ivity 12.0	– 16.0mS/cm or better				
	Dialysis step 1 –	6 ( 0.3Ms	/ cm per one step )				
	Blood Pump Flow	w Rate	20-600ml/min or better				
	Heparin infusion	rate 10n	nl-20ml/h.				
	Detector						
	Air bubble detec	tor Ultra	sonic detection system				
	Blood leak detec	ctor Photo	electric detection system				

Monitor Section		
Dialysate temperature indicator		
Dialysate flow indicator		
Dialysate conductivity indicator		
Dialysate pressure indicator		
Arterial pressure indicator		
Venous pressure indicator		
Transmembrane pressure indicator		
UF volume indicator		
Blood pump flow indicator		
Heparin pump flow indicator		
Disinfection and Rinsing		
Chemicals Sodium hypochlori		
Audio/visual alarms for conductivity , pressures, water shortage, concentrate shortage, air bubble, blood leak etc.		
Or Equivalent		
Country of Origin : USA / Europe / Japan		
Delivery Period:		
Warranty:		
Catalogue / Brochure should be attached duly flagged.		

Items	Descripti	DescriptionRates on D.D.P BasisDescriptionQtyIn words and Figure				
2	Reprocessing Unit with all Standard Accessories		01 No.			
	Model:	Make:		Country of	Origin:	
	Specifications:-			Conf	Confirmed	
				Yes	No	
	Self-diagnosis and u processing system.	ser programmable dialyzer re-				
	Dialyzer rinse process with check connection					
	2.5% concentrate preparation /clearing and rinsing					
	Dialyzer test process	s with TCV test and pressure test				
	Dialyzer sanitization concentrate preparat	n processes rising 3.5%				
	Rising and filling 3	.5% concentration				
	Or Equivalent					
	Country of Origin :	USA / Europe / Japan				
	Delivery Period:					
	Warranty:					
	Catalogue / Brochu flagged.	ure should be attached duly				

Items	Descripti	on	Qty	Rates on D.D.P Basis In words and Figure		
3	<b>OT Light</b> with all Standard Acc	essories	01 No.			
	Model:	Make:		Country of	Origin:	
	Specifications:-			Conf	irmed	Difference / Deviation
				Yes	No	
	Single cupola Ceilin	g OT Light				
	Halogen lamp					
	Color temperature	or temperature 4300k or better				
	Lamp dia. (Single head) : 62cm					
	Polygon Reflector					
	110,000LUX or mor	e intensity				
	Cri: 93± 3					
	Action radius: 170c	m or better				
	CE or FDA Approv	ed				
	Or Equivalent					
	Country of Origin	: Korea / Taiwan / Turkey				
	Delivery Period:					
	Warranty:					
	Catalogue / Broch flagged.	ure should be attached duly				

Items	Descriptio	on	Qty		D.D.P Basis and Figure	
4	OT Table with all Standard Accessories		01 No.			
	Model:	Model: Make:		Country of	Origin:	
	Specifications:-	I		Conf	irmed	Difference / Deviation
				Yes	No	
	Multipurpose hydrau	ilic Operation Table				
	360° Tabletop rotatio	on				
	Stainless steel side ra	ail, accessories and clamps				
	Built-in kidney lifter					
	Table Top : 180 cm c	or more				
	Table Top Width: 50	cm or more				
	Table Top Elevation:	70-100 cm or more				
	Lateral Tilt: 25°/25°	or more				
	Trendelenburg / Rev	verse: 20°/25° or more				
	Head Section Up/Do	wn: +30° /- 90°				
	Leg Section Up/Dow	n: +20° /- 90°				
	Table should comple	ete with:				
	1 x Screen Frame					
	1 x Shoulder Suppor	ter				
	1 x Body Support					
	1 x Arm Rest					
	1 x Knee Crutches					
	1 x Mattress					
	1 x Kidney Elevator					
	CE or FDA Approved					
	Or Equivalent					
	Country of Origin :	Korea / Taiwan / Turkey				
	Delivery Period:					
	Warranty:					
	Catalogue / Brochu flagged.	ire should be attached duly				

Items	Descripti	on	Qty	Rates on D.D.P Basis In words and Figure		
5	Surgical Beds (Dia with all Standard Acce		03 Nos.			
	Model:	Make:		Country of	Origin:	
	Specifications:-			Confirmed		Difference / Deviation
				Yes	No	
	Width 600mm					
	Length 1900mm					
	Seat Width includin	g arms 880				
	Height Adjust 560m	ım ~ 820 mm				
	Frame Q235 Steel					
	Cushion PU Leather					
	Castor 100mm					
	Back Adjust 12° ~ 7	5°				
	Leg Adjust 80° ~ 12°	5				
	Tendelenburg 12°					
	Covering ABS					
	Motors 3					
	Power Supply AC 11	10~240 V 50/60 Hz				
	Total Weight 90 Kg					
	Country of Origin	: LOCAL (Export Quality)				
	Delivery Period:					
	Warranty:					

Items	Description		Qty		D.D.P Basis and Figure	
6	Surgical Beds (Dialysis Recliners) with all Standard Accessories		03 Nos.			
	Model:	Make:		Country of	Origin:	
	Specifications:-			Conf	irmed	Difference / Deviation
				Yes	No	
	Total Length 1920mm					
	Width 700mm					
	Height 520mm ~ 840mm	1				
	Back Segment Angle 0° ^	<sup>•</sup> 80° ±5				
	Leg Segment Angle 45° ^	<sup>2</sup> 25° ±5				
	Castor 125mm					
	Upholstery P.U					
	NW 90 Kg					
	Safe maximum load 240	Kg				
	Motors 3					
	Power Supply AC 110~24	40 V 50/60 Hz 100 VA				
	Digital Weighing Range	)-240 kg				
	Country of Origin : LO	DCAL (Export Quality)				
	Delivery Period:					
	Warranty:					

Items	Descr	ription		Qty		D.D.P Basis and Figure	
7	Crash Trolley with all Standard		es	03 Nos.			
	Model:		Make:		Country of	Origin:	
	Specification	s:-			Conf	irmed	Difference / Deviation
			Yes	No			
	Crash trolley wi	th 4 swive	el castors with brakes				
	Having 4 drawe	rs or mor	e				
	Top tray for def	ibrillator					
	Side tray for ins	trument					
	Complete with a mask.	adult and	child resuscitator with face				
	Venture suction	n with coll	ection jar				
	Container for w	aste					
	Drip stand supp	ort					
	Cardiac board						
	Oxygen regulate	or					
-	Flow meter with	h humidifi	er				
-	Or Equivalent						
-	Country of Orig	gin : UK	/ USA / EEC / Japan				
	Delivery Period	d:					
	Warranty:						
	Catalogue / Bro flagged.	ochure s	hould be attached duly				

Items	Descriptio	n	Qty		D.D.P Basis and Figure	
8	Stretcher with all Standard Acces	sories	13 Nos.			
	Model:	Make:		Country of	Origin:	
	Specifications:-			Confirmed		Difference / Deviation
				Yes	No	
	Stainless steel					
	With swivel castors					
	Country of Origin :	LOCAL (Export Quality)				
	Delivery Period:					
	Warranty:					

Items	Description           Autoclave           with all Standard Accessories		Qty	Rates on D.D.P Basis In words and Figure		
9			01 No.			
	Model:	Make:		Country of	Origin:	
	Specifications:	:-		Conf	irmed	Difference / Deviation
				Yes	No	
	Chamber capacity	y: 143 liters				
	Sterilization temp	perature 121 c				
	Design temperatu	re 138 c				
	Dry function					
	Re-dry function					
	Heater power con	sumption 6 kw				
	Frequency 50/601	Hz				
	Over temperature	protection				
	Over Pressure pro	otection				
	Electric overload	protection				
	Emergency exhau	ıst switch				
	Low water buzzer	r				
	Over heat/temp. I	ndication light				
	Adjustable Sterili on timer	ze drying time from 0~60 minutes				
	Automatic air ver					
	With air filter to p into the chamber	prevent contaminated air enterance				
	Or Equivalent					
	Country of Origi	n : Korea / Taiwan / Turkey				
	Delivery Period:					
	Warranty:					
	Catalogue / Broo flagged.	chure should be attached duly				

Items	Description		Qty	Rates on D.D.P Basis In words and Figure		
10	Ventilator with all Standard Acc	cessories	04 Nos.			
	Model:	Make:		Country of Origin:		
	Specifications:-			Conf	irmed	Difference / Deviation
			Yes	No		
	<u>Modes:</u> Assisted Control Mandatory Ventilation (CMV), Synchronized Intermittent Mandatory Ventilation (SIMV), Spontaneous Ventilation (CPAP + PS, CPAP + VS, SPAP)					
	Auto Control : Apr	nea Backup Ventilation				
	SPAP Philosophy C Cycle + I:E	Options: Time, Cycle + Time,				
	IBW Calculator					
	NIV On/Off in all I	Modes				
	Active Exhalation	Valve				
	Automatic Leak Co	ompensation (up to 60 lpm)				
	User defined flow s	sensor position				
	Proximally at the c	ircuit Wye				
	Distally at the Expi	iratory Port				
	Breath Types					
	Volume-controlled	(V-CMV; V-SIMV)				
	Pressure-controlled	l (P-CMV; P-SIMV, PS)				
	Volume Targeted F PRVC-SIMV, VS)	Pressure-controlled (PRVC-CMV;				
	Dual Level PEEP (					
	Equivalent to APR (Covidien)	V (CareFusion) & BiLevel				
	Breath Triggering	<u> </u>				
	Pressure triggering	0.5 - 20 cmH2O				
	Flow triggering 0.1	- 25 lpm				
	Respiratory rate 0 -	· 150 bpm				
	Tidal volume 2 - 20	000 ml				
	PEEP / CPAP 0 - 5	0 cmH2O				

Psupport 0 - 90 cmH2O		
I-Times 0.1 - 10 sec		
Oxygen concentration 21 - 100%		
Rise time settings 1 - 20		
Exhalation sensitivity % 10 - 80% (spontaneous peak flow)		
Base Flow (with leak comp off)2.5 - 25 lpm		
Plateau (insp. pause) 0 - 42 sec (0 - 70%)		
Manual inspiration. Inspiratory and expiratory		
Alarm silence breath holds		
100% Oxygen (+20% Oxygen (Neonate) .Standby		
Multiple Easy View Tabs		
Main, Settings, Monitoring, Alarms, Configuration		
Manual & Automatic Time Based Event Markers		
Graphics Display (3 - Loops and 3 - Waveforms)		
Apnea Back-up		
Smart Nebulizer		
Smart Sigh		
Humidification Selection (HME, Humidifier, and None)		
Heliox 0 - 80%		
User Defined Custom Default Settings		
Data Monitoring		
Delivered oxygen concentrations: 21 - 100%		
Trend Data (1-72 hrs.)(34 trend parameters)		
Alarms		
Auto set alarm feature & 1000 Event log Complete with Humidifier		
Or Equivalent		
Country of Origin: USA / EEC / JAPAN		
Delivery Period:		
Warranty:		
Catalogue / Brochure should be attached duly flagged.		

Items	Description		Qty		D.D.P Basis and Figure	
11	Fluoroscopy with DF with all Standard Access		01 No.			
	Model:	Make:		Country of Origin:		
	Specifications:-			Conf	irmed	Difference / Deviation
				Yes	No	
Α	500mA Digital Radio	graphy machine				
	500mA/125kV High fi floating top table	requency X-Ray consisting of				
	Chest bucky stand					
	Floor to ceiling tube st	and				
	X-ray tube 200KHU					
	Flat panel detector for	table bucky and chest bucky				
	Size 14 x 17, 2,560 x	3,072 pixels				
	complete with work st printer	ation, CPU, Thermal or laser				
	Micro processor controll, Three phase , 40 kW high frequency X-Ray Generator					
	Automatic line compe	nsation				
	Over load tube protect	ion				
	Radiographic kVP 40-	-125kV in one kV step				
	Radiographic mA 10~	500mA or more in 18 steps				
	mAs range: 0.1~500m	As				
	Exposure time: 1 ms ~	- 10s				
		selection. 3 point kVp, mA & more Anatomical program.				
	Four way floating top	o fixed table:				
	Table top dimension					
	Length: 200~220 cm					
	Height 80~90cm					
	Table top weight capa	city not less then 250kg				
	Electromegnatic brake movement	s Longtidnal and lateral travel				
	Super speed moving p	otter bucky				
	Longitudnal bucky tra	vel				

Са	assette size : 18 x 24 to 35x43cm		
M	oving grid 10:1		
Fo	oot switch for electro megnatic brake control.		
Fl	oor Mounted Tube stand		
Ba	alancing System with counterweights		
El	ectromagnetic brakes		
	ontrol panel with push button to control vertical, ngitudinal and transverse travel		
Сс	olumn rotation +/-90deg or better		
Tu	ube arm rotation : horizontal axis: +/-180deg		
	oniometer for X-Ray beam incidence angulations dication		
Co	ollimator		
inc	anual collimator with 6 pairs of leafs. LED light dicator for alignment with bucky		
	eld light Lamp with 160LUX. lamp timing. tractable measuring tape		
W	all Bucky stand		
	assettes formatsfrom 18X24 to 35X43 on either ientation		
M	oving Potter Bucky super speed		
Ve	ertical travel of bucky not less than 150cm		
M	oving grid: 10:1 ratio		
X-	-Ray Tube :		
m	bcus sizes: Small focus 1.0 mm. Large focus 2.0 m. Maximum Tube, 125 KVp . Anode Heat capacity 00 KHU. Anode rotation 2.700/3.200 rpm		
De	etector		
(F	) FLAT PANEL DIGITAL X-RAY DETECTOR PD) 2 Nos. for Table bucky and Chest bucky stand		
Ra	adiography availate Detector type : TET		
Ar	ighest image quality Detector type : TFT - morphous selenium or CsI/Amorphous Silicon		
	etector area: 14 x 17"		
Piz	xel resolution: 2500 x 3000 pixels (7.5M) or better		
Piz	xel pitch: 140 µm or less		
Ar	nalog to digital conversion 14 bits or better		

	Image Accquision time: < 10 sec or better for full image		
	Optimum DQE value for low contrast objects		
	(2) Workstation and software		
	Integrated work station with a Medical grade LCD display of 21" or more		
	Software to support: patient registration, image acquisition, image viewing, image archiving and export		
	Image processing for noise reduction, image enhancement & adjustement, windowing, zoom IN/OUT etc		
	Image manipulation: digital marker, customize annotation, crop, angle and length measurement, rotate, image reject, image save		
	Image lay out : 1 x1, 2 x 1, 1x2 & 2x2		
	DICOM 3.0 connectivity for store, media storage, print, work list etc		
	Hard ware based with dual core CPU, image disk storage of 500GB or more and interface capability with touch screen or mouse		
	Operating system: Windows XP.		
В	C-Arm Fluoroscopy		
	Image Intensifier for use in urology and other surgery		
	Compact unit consisting of C-Arm control unit and display unit		
	Generator : high frequency inverter type with the frequency of 50KHz or better		
	Out put3.5Kw or more		
	Stationary or rotating anode x-ray tube		
	Focal sport not more than 0.5 small and 1.5mm large		
	X-ray tube Heat capacity 40KHU or more		
	FluoroKV : 110KV max		
	Fluoro mA : 4~5 mA		
	Boost mode 5-10mA		
	Radiography : 20mA or more		
	Radiography mAs:0.4-100mAs		
	Automatic brightness control (ABC)		

Wide movement of C-Arm up and down , left and right, forward and backward		
Sliding rotation. C-Arm rotation : +/- 180°		
Image Intensifier triple field		
Input field : 9"/ 6"/4.5"		
Resolution (Centre): 55LPM/cm		
Camera : Type Digital CCD Camera		
Auto Gain control, Brightness		
TV Monitor : Black 2 x 17" Monitors on trolley		
Image memory: 100 frame		
CE or FDA Approved		
Or Equivalent		
Country of Origin: USA / EEC / JAPAN		
Delivery Period:		
Warranty:		
Catalogue / Brochure should be attached duly flagged.		

Items	Descri	iption	Qty		D.D.P Basis and Figure	
12	ABG Machine System with all Standard Accessories		01 No.			
	Model:			Country of	Origin:	
	Specifications	Specifications:-		Conf	irmed	Difference / Deviation
				Yes	No	
	Туре	Parameter				
	рН	рН				
	Blood Gas	pCO², pO²				
	Electrolytes	K <sup>+</sup> , Na <sup>+,</sup> Cl				
	Hemotocrit	Hct				
	Shelve life of solution 3~4 months					
	Pouch volume	-440 ml				
	Fluidic cycles	230				
	Storage tempera	ature 12-12 °C/54-77 °F				
	Automatic: 1 & 2	2 point calibration every 8 hours				
	Full visual graph	ic array (VGA)				
	Full active thin F	ilm transistor (TFT)				
	800X600 resolut	ions				
	Resistive touch s	screen				
	Or Equivalent					
	Country of Orig	jin : USA / EEC / JAPAN				
	Delivery Period	:				
	Warranty:					
	Catalogue / Bro flagged.	ochure should be attached duly				

Items	Description		Qty	Rates on D.D.P Basis In words and Figure		
13	Syringe Pump with all Standard Accesso	ries	10 Nos.			_
	Model:	Make:		Country of	Origin:	Difference / Deviation
	Specifications:-			Conf	irmed	
				Yes	No	
	Automatic Syringe- Siz	e Detection				
	K.V.O. (Keep Veine op	pen Function)				
	Flow Rate Range					
	Syringe 10 ml : 0.1~300	) ml /h				
	Syringe 20ml : 0.1~ 400	) ml /h				
	Syringe 30ml : 0.1~ 500	) ml /h				
	Syringe 50ml : 0.1~ 120	00 ml /h				
	Volume limit : 0.1~99	9.9 ml (0.1 ml steps)				
	Purge Rate:					
	Syringe 10ml: 300ml/h					
	Syringe 20ml: 400ml/h					
	Syringe 30ml: 500ml/h					
	Syringe 50ml: 1200ml/					
	<i>KVO : 0.1</i> ml/h					
	Accuracy With Approv	ed Syringes				
	Mechanical accuracy : =	±1%				
	Accuracy including syr	inge: ±3%				
	ALARM:					
		ge, Low Battery, Syringe lutch Disengaged, Repeat Alarm				
	Or Equivalent					
	Country of Origin : k	Korea / Taiwan / Turkey				
	Delivery Period:					
	Warranty:					
	Catalogue / Brochure flagged.	should be attached duly				

Items	Description         Echo Color Doppler         with all Standard Accessories		Qty 01 No.	Rates on D.D.P Basis In words and Figure		
14						
	Model:	Make:		Country of Origin:		
	Specifications:-			Confirmed		Difference / Deviation
				Yes	No	
	Echo Cardiography Syst Cardiology application					
	Original Trolley mounte former	ed Fully Digital multi beam				
	Fast image processor a	nd three active connectors				
	Gray shades 256 gray s	hades or better				
	Image depth: Image de	pth: 25 cm or more				
	Monitor: 15" or more h TFT/LCD/LED	nigh resolution, Non flicker				
	Imaging modes:					
		de, THI Mode, Color Mode, DPI / Mode, Trapezoidal imaging,				
	Measurement Package	PS:				
	Obestratic Measureme	ent Package				
	Gynecology Measurem	ent Package				
	Cardiology Measureme	ent Package				
	Urology Measurement	Package				
	Small parts Measureme	ent Package				
	Vascular Measurement	Package				
	Orthopedic Measurem	ent Package				
	High pulse repetation f	requency				
	Spectral Doppler					
	DICOM 3.0					
	Complete with the foll	owing:				
	Convex probe Multi fr better	equency between 2~6 MHz or				
	Linear probe Multi fre better	quency between 5~10 MHz or				

Sector Probe Multi frequency 2~5 MHz or better		
Black & White digital Ultrasound printer		
Sine wave on line UPS		
Country of origin should be USA/ Western Europe/Japan with their respective standards MDD (CE) compliance / MHLW Japan / FDA 510k. Equipment from other countries which is FDA 510k approved can be considered.		
Or Equivalent		
Country of Origin: USA / EEC / JAPAN		
Delivery Period:		
Warranty:		
Catalogue / Brochure should be attached duly flagged.		

Items	Descrip	tion	Qty	Rates on D.D.P Basis In words and Figure		
15	Patient Monitor with all Standard Accessories		11 Nos.			
	Model:	Make:		Country of Origin:		
	Specifications:-			Confirmed		Difference / Deviation
				Yes	No	
	ECG, NIBP, SpO2, I	RESP, TEMP				
	Standard 5 lead ECG with ST segment monitoring, respiration, dual temperature monitoring Spo2, non-invasive blood pressure, Auto setting of					
	alarm limits Suitable for adults and pediatric Battery backup for 90 minutes atleast 12" or more Touch Screen display Trace 8 Wave forms Audible And Visual Alarms					
	Country of origin should be UK/USA/ EEC/Japan with their respective standards MDD (CE) compliance / MHLW Japan / FDA 510k. In case equipment is from other country FDA 510k approval is mandatory					
	Or Equivalent					
	Country of Origin	n: USA / EEC / JAPAN				
	Delivery Period:					
	Warranty:					
	Catalogue / Broc flagged.					

Items	Description Defibrillator with all Standard Accessories		Qty 01 No.	Rates on D.D.P Basis In words and Figure		
16						
	Model:	Make:		Country of Origin:		
	Specifications:-			Confirmed		Difference / Deviation
			Yes	No		
		n Biphasic technology. Truncated eform . Integrated pediatric paddles				
	Monitor:					
	-	: 3,5, or 10 lead patient cable , ifunction disposable electrodes. 300 ppm				
	Defibrillator					
	Biphasic truncate	ed exponential				
	Manual : 1-2-3-5 150-200J	-7-9-10-15-20-30-50-70-100-125-				
	Synchronized ca	rdiovesion				
	Defibrillator ene	rgy : 200 joules				
	Charging time. 6	5 sec at 200 joules				
	Recorder:					
	Thermal array 50	)mm				
	10, 25, and 50m	m/sec speed				
	Manual and auto	omatic				
	Complete with o	ne hour or more battery back				
	Or Equivalent					
	Country of Orig	in : USA / EEC / JAPAN				
	Delivery Period	:				
	Warranty:					
	Catalogue / Bro flagged.	chure should be attached duly				

Items	Description		Qty	Rates on D.D.P Basis In words and Figure			
17	Diathermy w	ith all Stan	dard Accessories	01 No.			
	Model:		Make:		Country of	Origin:	
	Specifications:-			Confirmed		Difference / Deviation	
					Yes	No	
	area of General Vascular Surgica TURP procedure	Surgery, G II, Neuro su and etc	nachine 400W to be used in ynecology, Endoscopy, rgery, orthopedic, urology,				
	Unit should be ca a continuous way		ng max 400W at 500ohms with				
	Cut mode should	l have four e output po	different mode: pure, blend I,II& wer of 230W at 300ohms, 180				
	Two modes of mo	onopolar co	pagulation				
	Contact coagulat coagulation 80W		nax power and spray				
		n to be use	d effectively in TURP and				
	The contact coag modes of bipolar	ulation to t coagulatio	be used for laparoscope. Two				
	Standard 99W ar		for large tissue coagulation				
	Unit must have a setting in case of The system shou	memory fu power failu Ild have ab	Inction to remember its last ure lity to check safety system and				
		/, unit shou	ast activated setting Id have patient return electrode				
	Unit should comp	olete with:	bipolar forceps				
	Reusable bipolar	forceps ca	ble				
	Reusable mono p	oolar handl	e with cable				
	Reusable twin b	utton handl	e with cable				
	Electrodes .doub	le foot swit	ch				
	Single foot switch	า					
	Disposable dual	return plate					
	Reusable return	plate cable					
	Reusable metal p	plate with c	able				
	Or Equivalent						
	Country of Ori		rea / Taiwan / Turkey				
	Delivery Perio	d:					
	Warranty: Catalogue / Br flagged.	ochure sl	nould be attached duly				