


**PROJECT DIRECTOR
REHAB: DHQ/THQ HOSPITALS IN SINDH
HEALTH DEPARTMENT,
GOVERNMENT OF SINDH
(SHAHEED MOHTARMA BENAZIR BHUTTO SINDH HEALTH INITIATIVE)**



BIDDING DOCUMENTS FOR PROCUREMENT OF MEDICAL EQUIPMENT/ INSTRUMENTS FOR THE FINANCIAL YEAR 2017-18, UNDER ADP SCHEME NO. 733 UP-GRADATION OF THQ HOSPITALS TO THE LEVEL OF DHQ Hospitals JAMSHORO @ KOTRI, TANDO MUHAMMAD KHAN & TANDO ALLAHYAR.

Issued to M/s. _____

Due on: 09-01-2018 AT 12:00 Noon


**Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi**

INDEX

1. (a) Invitation for Bids & (b) Knock Out Clauses
2. Name of Equipment, Name & Manufacturer (Annex A, B & C)
3. Terms and Conditions
4. Notification of Award / Advance Contract
5. Contract Agreement
6. Performance Security
7. Payment Term:
8. Stamp Duty
9. Undertaking
10. Certificate
11. Criteria For Evaluation Of Bids
12. Quality and Assessment Parameter
13. Bid Form And Price Schedule
14. Bid Security Form
15. Contract Form
16. Performance Security Form
17. Manufacturer's Authorization Form
18. Schedule of Requirement Specifications


Project Director
Rahim Yar Khan Hospitals
Health Department
Government of Sindh, Karachi

I(a) INVITATION FOR BIDS

Date: _____


ADP NO 733 _____

Bid Reference No.: _____

1. The Project Director, Rehabilitation of DHQ/THQ Hospitals in Sindh of (the "Employer") has received credit from the Government of Sindh towards the cost of Up-Gradation of THQ Hospital to the level of DHQ Hospital Jamshoro @ Kotri, Tando Muhammad Khan & Tando Allahyar. And it is intended that part of the proceeds of the credit will be applied to eligible payments under the Contract for the Purchase of Machinery Equipment/Instrument for the financial year 2017-18 under ADP Scheme 733. Bidding is open to all eligible Bidders.
2. The Employer invites sealed bids (the Technical & Financial envelope should be separated), from eligible firms a foreign Bidder is entitled to bid only in a joint venture with a Pakistani contractor having manufacturing facility in Pakistan.
3. Bidders may obtain further information from, inspect at and acquire the Bidding Documents from the Office of the Employer, at D-62/2, Opp. Beacon House School KG II near Kausar Medicos, Block 9, Clifton Karachi.
4. A complete set of Bidding Documents may be purchased by an interested Bidder on submission of a written application to the above office and upon payment of a non-refundable fee of Rs. 2000/-.
5. All bids (Technical) must be accompanied by Earnest Money in the amount of 2% of Bid Amount in the form of Bank Guarantee, Pay Order or Demand Draft in favor of Employer, and must be delivered to D-62, Opp. Beacon House School KG II near Kausar Medicos, Block 9, Clifton Karachi, at or before 12:00 Noon, on 09-01-2018. Bids will be opened at 01:00 PM on the same day, in the presence of Bidders' representatives who choose to attend at the same address

Address:

OFFICE OF THE PROJECT DIRECTOR
 REHAB: DHQ/THQ HOSPITALS IN SINDH,
 D-63 OPP. BEACON HOUSE SCHOOL KG II
 NEAR KAUSAR MEDICOS BLOCK-9,
 CLIFTON, KARACHI.
 TEL: 021-35822317--



PROJECT DIRECTOR

Rehab: DHQ/THQ Hospitals in Sindh
 Karachi

Project Director
 Rehab: DHQ/THQ Hospitals
 Health Department
 Government of Sindh, Karachi

1(b) CHECK LIST

The provision of this checklist is essential prerequisite along with submission of tenders.

S/No.	DETAILS	YES / NO	PAGE#/ Annex.
KNOCK OUT CLAUSES			
1	Original receipt for purchase of tender. Original receipt for purchase of tender for each alternate.		
2	The financial envelopes should be separated of each item, clearly marked the company name and quoted serial item No. and Name.		
3	Copy of Bid Security without amount in technical bid		
4	Sole agency certificates [as per annex at clause 18] or nominee of manufacturer or sole agent		
5	Copy of GST certificate		
6	Copy of NTN certificate		
7	Copy of last three years paid income tax Challan		
8	Copy of registration with chamber of commerce		
9	Copy of registration with PNRA in case of x-ray, before submission of bid.		
10	Price should not be mentioned on technical bid.		
11	Certificates regarding quality of production for conformity with International Standards (copy of certificate FDA, CE, JIS) [as per annex. C]		

Signature & seal (bidder): _____

Project Director
Rohini Hospital
Health Department
Government of Sindh, Karachi

Annexure "C"

[illegible]

Signature & seal (bidder): _____

Project Director
Rohati, DHO/THQ Hospitals
Health Department
Government of Sindh, Karachi

3. TERMS AND CONDITIONS:

- 3.1 Bid shall remain valid for 90 days from the date of Bid opening.
- 3.2 Bidders shall quote their prices either on CIF Karachi or on free Delivery at Consignee's end DHQ Hospital Kotri, Tando Muhammad Khan & Tando Allahyar basis excluding custom duties, as project office shall arrange letter of exemption of custom duties.
- 3.3 Price shall be quoted in Figure & words failing which the offer will be ignored. In case of discrepancy in two the price in words shall prevail and shall be taken as final
- 3.4 Free installation along with all accessories including labor charges/Demonstration at consignee's end must be borne by the bidder.
- 3.5 03 year free service from the date of installation and undertaking regarding availability of spare parts for at least 10 years may also be confirmed by the bidder through their principle or manufacturer
- 3.6 manufacture and their Sole agent are authorized to participate in case of sole agent he must provide warranty and Guarantee, free after sales service for 3 years and availability spare parts for 10 years from manufacturer.
- 3.7 Bidders are required to submit proof of past import of quoted items from Manufacturer by submitting copy of bill of entry (custom clearance documents), bill of lading /Air way bill and etc. along with their technical bid.
- 3.8 The supplier will be bound to train nominated technical personnel to operate /repair and maintain the supplied equipment.
- 3.9 Bidders should confirm the presence of Manufacturer's/sole agent's trained service/installation engineers/technicians and also provide the detail of their working experience, Manufacture's training certificate, list of tools and test equipment, approximate area of workshop in the premises of their office and address along with the bid.
- 3.10 List of hospitals, name of department, contact numbers of the end users, in which the quoted equipment are working must be attached. Copy of previous installation report in a reputed Govt./Private Teaching Hospitals/repair certificate if any, of the similar quoted items from the end user should be attached along with the bid.
- 3.11 Evaluation of equipment will be carried out in accordance with specifications of the equipment and evaluation criteria as mentioned in the bid documents

- 3.12 The bidder shall bear the charges of clearing agent, Godown rent, DO Charges and all other charges including transportation to Consignee end excluding custom duty and tax of whatsoever, Certificate will issued by this office to clarify that the import has been made for the hospital in Question so as to avail the facility of exemption of duties / taxes as per Government Rules
- 3.13 In this tender single stage two envelopes procedure as per SPPRA 2010 amended 2013 shall be followed i.e. Technical and Financial proposal separately, i.e. single stage two envelopes procedure. The envelope must contain tender enquiry no. on the top and **TECHNICAL/FINANCIAL PROPOSAL** clearly in order to avoid any confusion. The tenders shall be submitted with all documents, drawing literature & catalogue (in equipment) in Technical proposal, with sealing wax. The name of manufacturer or supplier should be affixed on the face of envelope at the left side, moreover, financial envelope should contain financial bid for each item separately,
- 3.14 The bid must be free from erasing, cutting and over writing. In case of erasing, cutting and over writing, authorized person shall initial it and affix the firm's stamp.
- 3.15 Conditional/Optional tenders will be ignored and will not be considered entertained/accepted.
Late bid received after the closing time shall not be entertained and shall be returned unopened
- 3.16 Tender shall be accompanied by Bid Security @ 2% of the value of stores quoted by bidder in form of call deposit/pay order/demand draft/ irrevocable Bank guarantee up to 28 days after expiry of bid validity period in the name of Project Director, Rehabilitation of THQ/DHQ Hospital, in Sindh,
- 3.17 Copy of Bid Security (without amount) must be attached along with the technical bid. In case of disclosure of price or amount of bid security in the technical bid, the bid shall be rejected.
However the original bid security showing amount of bid shall be furnished with financial bid/proposal.
- 3.18 For the X-Ray Equipment, bidders must submit a valid copy of registration with PNRA (Pakistan Nuclear Regulatory Authority) Firm shall have registration with PNRA before submission of bid.
- 3.23 The original printed catalogue/technical brochure showing detail technical specification, clear photo/picture of the quoted item, Manufactures address, phone number, e-mail address and website must accompany with offer.
- 3.19 The equipment to be imported comply/certified at CE/FDA /JIS standards. Certificate shall be attached along with the technical offer.

- 60
- 3.20 If the Contractor fails to complete the supply or installation within delivery period, he shall pay to the purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed 10% of the bid amount. Once the "Maximum limit" is reached, the Purchaser shall termination of the Contract, forfeit performance security and black list the bidder for specific or indefinite period.
- 3.21 Tenderers are required to furnish a detail technical quotation on their letter head and specify the standard and optional items /accessories as required in the tender specification with price if any. Bidder should clearly mention make, model, and country of origin of the quoted items.
- 3.22 Tenders shall purchase separate tender documents and furnish purchases receipt for each alternate offer in case they want to submit alternate offer for any item. All the bids with alternate offers without separate purchase receipt (original) are supposed to be rejected.
- 3.23 No Manufacturer shall authorize their distributor/agent/any firm or person to quote the same item which manufacturer quoted it-self in any tender. Manufacturer or sole agent shall not authorized more than one supplier to quote same item in this tender, failing which offers of the manufacturer as well as other bidders shall be ignored.

4. NOTIFICATION OF AWARD/ADVANCE CONTRACT:

- 4.1 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 that their bid has been accepted.
- 4.2 The notification of award will constitute the formation of the contract.

5. CONTRACT AGREEMENT

Subject to the fulfillment of all codal formalities, the purchaser will award the contract to the successful bidder whose bid has been determined to be qualified to perform the contract satisfactory.

6. PERFORMANCE SECURITY

The successful bidder will have to deposit with the performance security in shape of call deposit/pay order/bank guarantee at the rate of 5% of the value of contract before agreement.

7. PAYMENT TERM:


- 11
- 7.1 In case of purchase on CIF this office will establish Letter of Credit for 80% of contract value in favor of manufacturer. Remaining 20% payment will be released in equivalent to Pak Rupees of CIF amount after successful completion of delivery of equipment at consignees' end, and the difference in currency fluctuation will be borne by bidder.
- 7.2 Terms of payment for FOR(free delivery at consignee end) Part Delivery, Part Payment may be allowed if applicable.

8. Stamp Duty:

- 8.1 Stamp duty @0.3% shall be borne by the suppliers.

9. UNDERTAKING

- 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 with in the stipulated period shown in the contract.
- 9.2 I/We understand and confirm the refund of cost different if the same goods is/was supplied at lower rates to any other Govt. /Semi Govt. institution in the province in the same fiscal year.
- 9.3 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.


Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

10. CERTIFICATE

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



Project Director
Relief, Emergency Hospitals
Health Department
Government of Sindh, Karachi

Signature of Tenderer: _____

Name & Designation: _____

Address: _____

11. CRITERIA FOR EVALUATION OF BIDS

Quality and the following evaluation factors/ criteria will be employed on technical proposals. The number of points allocated to each factor shall be specified in the Evaluation Report. Only bids securing minimum of 70% marks would be considered for further process.

**EVALUATION CRITERIA
(ELECTRO-MEDICAL EQUIPMENTS)
ASSESSMENT PARAMETER MARKS**

12	12. ASSESSMENT PARAMETER	Marks
12.1	Availability of technical staff of the company/firm in reference to the product	15
<p>Following two components shall be considered in ascertaining the availability / expertise of technical staff:</p> <p>A. Number of technical staff</p> <p>i) At least two technical staff members</p> <p>ii) 01 additional number for every additional technical member shall be granted with maximum up to 04</p> <p>B. Technical Staff's academic qualification</p> <p>MSC or BE. degree in (Bio-Medical/Electronic) Engineering from recognized institution shall be granted two (02) additional mark. However, B.Tech shall not be considered for additional mark.</p>		
12.2	Manufacturer's local agent capacity for technical services with reference to the product.	15
<p>1. Repair work shop facility with the diagnostic tools and test equipment as submitted along with the quotation 07</p> <p>4. Service manual and other technical documentation List 03</p> <p>5. Availability of spare parts for 10 years and accessories at workshop List 05</p>		
12.3	Financial soundness	12
<p>1. The Bank certificate or credit limit over double of estimated Cost 08</p> <p>4 additional marks shall be given to firms having more than double credit limit</p>		
12.4	Overall reputation in reference to the product (Cliental)	10

Project Director
Rehab. DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Overall reputation of the product shall be envisaged by following criteria:

- A. References/certificates provided regarding performance of the product from head of teaching hospitals. 2 each Teaching Hospital one mark each for secondary hospital.

12.5	General overall sale turnover of the Organization	10
	A. 60% or more sales proportion of Medical Equipment (quoted items)	07
	B. 40% or more sales proportion of scientific instruments	03
12.6	International Sales and country of origin of quoted item	15
	A. Sale of product in two or more continents	10
	B. Sale of product in single continent	05
12.7	Product Certification	10
	FDA approved product	04
	CE approved product	03
	JIS	03
12.8	Exclusive Agency Certificate, Attested by Embassy, & Chamber of Commerce from Native Country of Manufacturer	08
	A. 10 years or more for each products or	08
	B. 5 years or more for each products	05
	C. 3 years or more for each products	03
12.9	Other	05
	Submission of original brochures and required certificates as per tender terms and Conditions.	05

Firms are require to fill in following performa for key staff

Assessment Parameter: 13.1.1

Manufacturer's local agent capacity for technical services in reference to the product

Physical size and facility of workshop _____
(Please attach photograph or picture of your workshop)

Details of Test and diagnostic tools: _____
(Please attach a separate sheet describing the test and diagnostic tools):

Details of Service manual and other technical documentation: _____
(Please attach a separate sheet describing the details of Manuals and other supporting documents)

Details of spare parts and accessories available at workshop: _____
(Please attach a separate sheet mentioning the list of spare parts and accessories)

Assessment Parameter: 13.2.1

Financial soundness

Copy of Income Tax Paid Challan for last three years: _____

Copy of audited Balance sheet by a recognized audit firm: _____
OR

Copy of Bank statement for the last financial year: _____

Assessment Parameter: 13.3.1

Overall reputation in reference to the product (Cliental)

No. of references _____
(Reference will be verified)

No of Certificates, regarding performance of the product from head of the concerned institute/hospital _____

Project Director
Rajah Memon Hospitals
Health Department
Government of Sindh, Karachi

Signature: _____

Seal: _____

Assessment Parameter: 13.4.1

Overall sale turnover of the Organization: _____

For quoted Medical Equipment: _____

For other scientific equipment: _____

Assessment Parameter: 8.6

International Sales and country of origin of quoted item

[illegible]

Project Director
Project HQ Hospitals
Health Department
Government of Sindh, Karachi

Signature: _____

Seal: _____

Quality certification of the quoted products:

Assessment Parameter: 13.6.1

Details about Exclusive Rights of the product represented in Pakistan:

Signature: _____

Seal:

Bylect Director
Hospital Hospitals
Health Department
Government of Sindh, Karachi

13. BID FORM AND PRICE SCHEDULE

Date: _____
Tender No. _____

To: [Name and address of Procuring Agency]

Gentlemen and/or Ladies:

Having examined the Bidding Documents including addenda nos: [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer the supply and deliver [description of goods and services] in conformity with the said Bidding Documents for the sum of [Total Bid Amount in words and figures], or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

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


If our bid is accepted, we will obtain a guarantee of a bank in the sum of equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to abide by this bid for a period of [number] days from the date fixed for bid opening as per bid terms and condition, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent gratuity	Amount and Currency	Purpose of commission or
_____	_____	_____
_____	_____	_____


Project Director
HQ Hospitals
Department
Government of Sindh, Karachi

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

Dated this _____ day of, _____ 2017

Signature : _____
(In the capacity of: _____

Duly authorized to sign bid for and on behalf of. _____

14. BID SECURITY FORM

Whereas [name of bidder] (hereinafter called the Bidder") has submitted its bid dated [date of submission of bid] for the supply of [name and /or description of goods] (hereinafter called the bid").

KNOW ALL PEOPLE by these presets that we [name of bank] of [name of country], having our registered office at [address of bank] (hereinafter called "the bank"), are bound unto [name of procuring agency] (hereinafter called "The procuring agency") in the sum of for which payment well and truly to be made to said procuring agency, the bank binds itself, its successors and assigns by these presents. Sealed with the common seal of the said bank this _____ day of _____, 20_____.

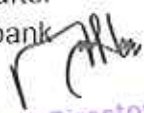
The conditions of this obligation are:

1. If the bidder withdraws its bid during the period of bid validity specified by the bidder on the bid form;
Or
2. If the bidder, having been notified of the acceptance of its bid by the procuring agency during the period of bid validity;
3. Fails or refuses to execute the contract form, if required; or
4. Fails or refuses to furnish the performance security, in accordance with the instruction to bidders.

We undertake to pay to the procuring agency up to the above amount upon receipt of its first written demand, without the procuring agency having to substantiate its demand, provided that in its demand the procuring agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including twenty eight (28) days after the period of bid validity, and any demand in respect thereof should reach the bank not later than the above date.

[Signature of bank]


Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

15. CONTRACT FORM

THIS AGREEMENT made at _____ day of 20 _____ between [name of procuring agency] of [country of procuring agency] (hereinafter referred to as the "Procuring Agency") of the one Part; and [name of supplier] of [city and country of supplier] (hereinafter 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 service] and has accepted the bid by the Supplier for the supply of those goods and service in the sum of [contract price in words and figures] (hereinafter called "the contract price").

Now This Contract Witnessed As Follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of this Contract hereinafter 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 Price Schedule submitted by the Bidder,
 - b. The Schedule of Requirements;
 - c. The Technical Specifications;
 - d. The terms and Conditions of Contract
 - e. 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 this 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 this Contract at the time and in the manner prescribed by this Contract.

IN WITNESS, Whereof the Parties hereto has caused this agreement to be executed in accordance with their respective laws the day and year first above written.

[Signature]
 Project Director
 Rehab. ORG/HQ Hospitals
 Health Department
 Government of Sindh, Karachi

Signed, sealed, delivered by _____ the _____
 (For the procuring agency)

Signed, sealed, delivered by _____ the _____
 (For the supplier)

16. PERFORMANCE SECURITY FORM

To: [Name of the Procuring Agency]

Whereas [Name of Supplier] (hereinafter called "the Supplier") has undertaken in pursuance of Contract No. [Number] dated [date] to supply [description of goods] (hereinafter called "the Contract").

And whereas it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

And whereas we have agreed to give the Supplier a Guarantee:

Therefore we hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of [Amount of the Guarantee in Words and Figures] 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 [Amount of Guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

*Project Director
Public Health Hospitals
Health Department
Government of Sindh, Karachi*

This guarantee is valid until the _____ day of _____, 20_____

Signature and Seal of the Guarantors/Bank: _____

[Name of bank or financial institution] _____

[Address] _____

[Date] _____

17. MANUFACTURER'S AUTHORIZATION FORM

To: [name of Procuring Agency]
[Tender no.]

WHEREAS [name of the Manufacturer] who are established and reputable Manufacturers of [name and/or description of the goods] having factories at [address of factory]

Do hereby authorize [name and address of Supplier/ Agent] to submit a bid, and subsequently negotiate and sign the Contract with you against IFB No. [Reference of the Invitation to Bid] for the goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.


[Signature]
Government of Sindh, Karachi

[Signature for and on behalf of Manufacturer]

Note:

This letter of authority should be on the letter head of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

18. Schedule of Requirement

SPECIFICATIONS

27

**List of Medical Equipments/Instruments for THQ Hospitals to the Level of DHQ Hospitals
Jamshoro @ Kotri, Tando Allahyar,
Tando Muhammad Khan for the Financial Year 2017-18 Under ADP Scheme No. 733**

Item No.	Item Name	TANDO MUHAMMAD KHAN	TANDO ALLAHYAR	KOTRI @ JAMSHORO	TOTAL
		QTY.	QTY.	QTY.	QTY.
	Cassettes with Screen various sized				
1	08x10"	0	8	0	8
2	10x12"	0	8	0	8
3	12x15"	0	12	0	12
4	14x17"	0	8	0	8
5	Mobile X-Ray Machine 100mA	0	1	0	1
6	X-Ray Illuminator	8	0	0	8
7	Digital Color Doppler Ultrasound System	0	1	0	1
8	Centrifuge machine 24 head	0	2	0	2
9	Dressing set	0	28	0	28
10	Portable Spot Light / OT Light	6	0	0	6
11	Anesthesia Machine with built in Ventilator	1	1	1	3
12	Hysterotomy set	4	0	0	4
13	L.S.C.S set	6	0	0	6
14	D & E set	14	0	0	14
15	General Surgery Set Complete in All Respect	2	0	0	2
16	Instrument Trolley (Fixed)	8	0	0	8
17	Instrument Trolley Adjustable	4	0	0	4
18	Instrument Trolley	3	33	0	36
20	OT Table / Hydraulic OT Table	1	0	0	1
21	Normal delivery set SS	10	0	0	10
22	Epiestomy set	10	0	0	10
23	Vacuum Extractor	5	0	0	5
24	CTG Machine	1	0	0	1
25	Infusion Pump	2	7	0	9
26	Suction Machine Heavy Duty	2	0	0	2
27	Glucometer	16	8	0	24
28	Ambu Bag Adult	2	0	0	2
29	Ambu bag paed's	2	0	0	2
30	Emergency Resuscitation Trolley	7	0	0	7
31	Cardiac Monitor Multi Function	10	10	0	20

Project Officer
Revenue Department
Health Department
Government of Sindh, Karachi

32	Baby Weighing Scale	3	0	0	3
33	Weighing Machine	4	0	0	4
34	Portable BP Apparatus	4	0	0	4
35	Over Head Warmer	8	0	0	8
36	Ophthalmoscope	0	1	0	1
37	Centralized Medical gases supply system	0	0	1	1
38	Split Air condition 1.5 Ton (Energy Sever)	9	0	0	9
39	Autoclave	0	1	0	1
40	Baby Running Trolley with Warmer	5	0	0	5
41	Defibrillator with ECG Display	4	1	0	5
42	Digital video Colposcope.	1	0	0	1
43	Bio Chemistry Analyzer	0	1	0	1
44	Over Head OT Top Light	1	1	0	2
45	Nebulizer Machine Ultrasonic Heavy Duty	0	2	0	2
46	Refrigerator	1	0	0	1
47	Retinoscope	0	2	1	3
48	Suction Machine	0	11	0	11
49	Ventilator with all Standard Accessories / ICU Ventilator	3	0	0	3
50	Electronic Balance	0	1	0	1
51	Diathermy Machine	1	0	0	1
52	Minor OT Table	0	1	0	1
53	Pulse Oximeter	9	0	0	9
54	Suction machine portable	2	0	0	2
55	Multipara Monitor	9	0	0	9
56	ECG Machine	3	1	0	4
57	Baby Incubator	3	0	0	3
58	Radiant Warmer	2	0	0	2
59	Auto Refractometer	0	0	1	1
60	Nitrous Oxide Cylinder	4	0	0	4
61	Blood Bag Rotator	0	4	0	4
62	Blood Sample rotator	0	2	0	2
63	Blood bag scaler	0	1	0	1
64	Stethoscope	11	41	0	52
65	Sphygmomanometer	10	0	0	10
66	Television LED	1	0	0	1
67	Telephone Set	13	0	0	13
68	Computer with LCD complete set	2	0	0	2
69	Fax Machine	1	0	0	1
70	Laser Jet Printer	1	0	0	1

28

Project Director
Rajiv Gandhi Hospitals
Health Department
Government of Sindh, Karachi

71	Syringe Cutter	6	0	0	6
72	Minor Spot light / OT Light	0	7	0	7
73	Nebulizer Normal	9	0	0	9
74	Phototherapy Unit	3	0	0	3
75	Weighing Scale	3	0	0	3
76	Direct Ophthalmoscope	0	1	0	1
77	Lactometer	4	0	0	4
78	Surgical Drum	20	0	0	20
79	Lift Elevator	0	0	2	2
80	X-Ray Illuminator	2	0	0	2
81	Snellen Chart	0	2	0	2

28

Project Director
 Mr. M. Masood
 Health Department
 Government of Sindh, Karachi

**Schedule of Medical Equipments/Instruments for THQ Hospitals to the Level of DHQ Hospitals Jamshoro @ Kotri, Tando Allahyar,
Tando Muhammad Khan for the Financial Year 2017-18 Under ADP Scheme No. 733**

Item No.	Item Name	TANDO MUHAMMAD KHAN	TANDO ALLAHYAR	KOTRI @ JAMSHORO	TOTAL		C.I.F PRICE		F.O.B PRICE	
		QTY.	QTY.	QTY.	QTY.	QTY.	Unit Price	Total Price	Unit Price	Total Price
	Cassettes with Screen various sized									
	Cassettes with Screen various sized									
1	108x10" Warranty period shall be of three years starting from date of supply of equipment to the Consignee End Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	8		8					
2	10x12" Warranty period shall be of three years starting from date of supply of equipment to the Consignee End Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	8		8					
3	12x15" Warranty period shall be of three years starting from date of supply of equipment to the Consignee End Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	12		12					
4	14x17" Warranty period shall be of three years starting from date of supply of equipment to the Consignee End Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	8		8					

Principal Director
Rajahmundry Hospitals
Health Department
Government of Sindh, Karachi

5	Mobile X-Ray Machine 100mA complete set with all standard accessories for its installation and commissioning:	0	1	0	1	Project Director Rehab. and RHA Hospitals Health Department Government of Sindh, Karachi				
	Mobile X-Ray Machine 100mA complete set with all standard accessories for its installation and commissioning:									
	High frequency X-Ray inverter type Generator									
	Having output power of 4kW or more									
	X-Ray tube 50 KHU or more									
	KVP range: 40-110kV or more									
	mA Range: 25-100mA or better,									
	mAs range: 1.0-200mAs or better									
	Centering light indicator									
	Standard power supply cable, standard x-ray exposure switch cable,									
	Vertical movement of the arm to lower or raise the tube collimator assembly, Rotation of the Collimator with reference to the power module (-/- 90deg) or better.									
	Or equivalent									
	Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC/Japan Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
6	X-Ray Illuminator	8	0	0	8					
	X-Ray Illuminator									
	Illuminator for viewing of x-ray film									
	Size: 8x10 ~ 14x17"									
	Single view acrylic sheet of 2mm. Fluor tube light with heavy duty switch.									

31

Endo cavity probe between 5~10 MHz or better
Choice upto 4 transducers
B- Mode imaging
Advance Color Doppler.
Black & White digital Ultrasound printer.
Sine wave on line UPS
Must be CE / FDA Approved
Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan
Warranty period shall be of three years starting from date of supply of equipment to the Consignee End

8

Centrifuge machine 24 head

Centrifuge machine 24 head

Capacity: 32 tubes

Speed: 5000 – 7000 RPM

RCF : 4000 – 5000 x g

Entry of parameters can be carried out fast and conveniently via the waterproof foil-keypad.

LED Display should be clear and easy to read

Actual values should be displayed during centrifugation

Input in increments of 100 min-1

Time, t/min: Input in minutes.

Timer: 1 to 99min or continuous

Must be CE / FDA approved

Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan

Warranty period shall be of three years starting from date of supply of equipment to the Consignee End

9

Dressing set

Dressing set

Forceps, dissecting, Straight, 1/2 teeth, 130 mm x 2

Project Director
Federal Government Hospitals
Government of Sindh, Karachi

Warranty period shall be of three years starting from date of supply of equipment to the Consignee End																
11	Anesthesia Machine with built in Ventilator	1	1	1	3											
<p>Anesthesia Machine with built in Ventilator</p> <ul style="list-style-type: none"> • Trilly mounted state-of-the-art technology. 3-Gas unit with Central Gas supply option. Connections: Two connection for O2 and N2O each. • Oxygen flush : 75 L/min • Should have built in suction operating on vacuum, injector system should be optional • Should automatically compensate for the amount of fresh gas flow directly to the patient • Minimum 3 holders for at least 10 litre bottles • Minimum 15" Display, monitoring anesthetic agent, multi gas monitoring included Multipara monitor should include NIBP SaO2, pulse, EtCo2 • Manometer gauges o Pipeline : O2, N2O & Air : Upto 10 baro Cylinder NST: O2, N2O : Upto 10 baro Pin indexed : O2 : Upto 250 baro N2O : Upto 100 bar • Front outlet 22mm OD – 15mm ID • Rotameter (hypoxic guard system) o O2 tube : 0 - 12 l/mino (double tube) 0 - 10 l/mino N2O tube : 0 - 12 l/mino Air : 0 - 15 l/mino Optional S-6 tubes • Vaporizer should be flow and temperature compensated • Should work as a half open system or a fully closed system depending on the fresh gas setting set by the user • Safety Features 																

Project Director
Health Department
Government of Sindh, Karachi

Handwritten signature

[Handwritten signature]

Project Director
Quality Improvement Projects
The Aga Khan Hospital
Government of Sindh, Karachi

<ul style="list-style-type: none"> • There should be an option for monitor arm • Should have vertical light weight absorber valves • Selectatec system three station vaporizer mounting • Two shelves, for monitor and writing • Minimum 1.5 litre CO2 absorber volume • Safety overpressure valve at 100 cmH2O for absorber 	<ul style="list-style-type: none"> • Three drawer units Ventilator Specifications For Anesthesia Machine • Should be based on bag in bottle system • Ventilation modes: CMV, PCV, manual and spontaneous modes • Should be equipped with anti-barotrauma and anti-volutrauma system • Tidal volume from 10 ml not less than 1500 ml • Peak pressure up to 70 mbar
<ul style="list-style-type: none"> • Ventilation frequency starting from 4 bpm up to 80 bpm • Inspiratory to expiratory time starting from 1:1 till 4:1 • PEEP not less than 20mbar • Trigger -2 to -20 mbar • Plateau time up till: 50%, up to 58 mbar for PCV 	<ul style="list-style-type: none"> • Measured parameters should include: Expired tidal volume, frequency, minute volume, PIP, plateau pressure, PEEP, mean pressure, airway pressure, ratio, patient pressure • Audible and visual alarms: Low air/ N2O/ O2 input pressure, apnea alarm, O2 alarms, upper/lower limit alarms and leak or patient disconnection, user technical alarms
<ul style="list-style-type: none"> • Silent indicator, time and date and mains and battery indicator • Battery backup till up to 3 hours • Operating voltage: up to 240 V and 50 Hz • Supplied With: One Vaporizer, CO2 • Absorber and standard accessories and Monitor of 15" with basic parameters and agent monitoring 	

<ul style="list-style-type: none"> • Should have anesthetic depth monitor for awareness • Anesthesia System shall meet the comprehensive parameters monitoring requirements including: <ul style="list-style-type: none"> • ECG, IBP, NIBP • SpO2, O2, N2O • 5 agents: Halothane: 	<p>Isoflurane, Sevoflurane, Desflurane, Enflurane</p> <p>ANAESTHESIA LIFT PENDANT SYSTEM:</p> <ul style="list-style-type: none"> • The arm profiles should be available in the lengths of 600mm to 1200 mm. These can be freely combined, enabling an all encompassing reach for a complete double-arm system. The pendant should be a degree of flexibility that can enhance workplace efficiency to support clinical processes in any care area. Pendant should be user friendly. The arm rotation and movement of the supply head or column smooth and effortless, even when fully loaded. State-of-the-art, easy-to-use electronic keypads control the braking and lifting functions. Ceiling mounting: suspended ceiling depth up to 1150mm-1200mm.
<ul style="list-style-type: none"> • 2 x oxygen outlets • 2 x medical air outlets 4 bar • 2 x N2o • 3 x Vacuum Outlets • 1 x Surgical Air Outlet 7 bar • 10 x Electrical sockets • 3 x Grounding outlets <p>Must be CE / FDA Approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC/Japan</p>	<p>Arm length: 600mm-1200mm and their combinations. Pendant should be height adjustable & have the provision to carry Anesthesia Machine of same brand. Pendant should have options of dual breaks Pneumatic & Friction independent from each other.</p> <p>Components in the pendant: Outlet point min 25, Swiveling range 300-330 degree at all joints: Lift speed <20 sec, for 580-600 mm. Height adjustment <10 sec for 580-600 mm. Max. load: 270 kg with following items:</p>

Project Director
Health Service Projects
Government of Sindh, Karachi

Project Director
Health Department
Government of Sindh, Karachi

12	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End	4	0	0	0	4
	Hysterotactomy set					
	Hysterotactomy set					
	Made from imported stainless steel, Rust resistant and Satin finish					
	Export Quality Material					
	Must be CE Marked Product/ Export Quality					
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End					
13	L.S.C.S set	6	0	0	0	6
	L.S.C.S set					
	Tray kidney shape with Lid S/S 200x30mm (02 Nos)					
	Tray instrument with Lid 225x125x50mm Deep (02 Nos)					
	Forceps Artery Spencer Wells Straight B.J.S/S 125mm (12 Nos)					
	Forceps Artery Spencer Wells Straight B.J.S/S 200mm (02 Nos)					
	Forceps Dissecting Plain serrated jaws S/S 150 mm (02 Nos)					
	Forceps Dissecting Treves, 1x2 Teeth 150 mm (02 Nos)					
	Forceps Tissue Allis fine 4x5 Teeth B.J.S/S 150 mm (02 Nos)					
	Forceps Tissues little wood 2x3 Teeth (b.j.s/s) 190 mm (03 Nos)					
	Forceps Towel Holding cross Action S/S 100mm (05 Nos)					

Scalpel Handle # 3 x 1
Scalpel Handle # 7 x 1
Scalpel Handle # 3L x 1
Critie Forceps Str 6 1/4" x 6
Critie Forceps Cvd 6 1/4" x 6
Dressing Forceps 8" x 1
Tissue Forceps 1 x 2 Teeth 8" x 1
TC Critie-Murray NH Serr 6" x 1
TC Mayo-Hegar NH Serr 7" x 1
Backhaus Towel Clamp 5 1/4" x 6
Bozeman Forceps Double Curved 10" x 1
Foerster Sponge Forceps Cvd Serr 9 1/2" x 2
Jackson Retractor Small Blade 3" x 1 1/2" x 1
Jackson Retractor Medium Blade 3 1/2" x 1 1/2" x 1
Auvard Weighted Speculum Medium 2 1/2 lbs. x 1
Graves Vaginal Speculum Medium 1 1/4" x 4" x 1
Graves Vaginal Speculum Large 1 3/8" x 4 1/2" x 1
Pederson Vaginal Speculum Small 1 1/2" x 3" x 1
Kogan Endospeculum w/ Gauge and Screws x 1
Goode's Dilator Large 13" x 1
Hegar Dilators (Set of 8) x 1

Project Director
Relax Health Hospital
Government of Sindh Karachi

7/11/20

Project Director
Health Services Department
Government of Sindh, Karachi

Forceps artery Spencer Wells CO Flat (b). S/S 200 mm (15 Nos)
Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)
Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)
Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)
Forceps Dissecting Lane's 2x3 teeth 180 mm (3 Nos)
Forceps Dissecting Waugh, fine serrated jaws 1x2 Th 200 mm (1 Nos)
Forceps Tissue Allis fine 4x5 Teeth B.I.S/S 150 mm (4 Nos)
Forceps Towel Holding cross Action S/S 100 mm (8 Nos)
Forceps Towel Moynihan, Double Teeth (b) 150 mm (4 Nos)
Forceps Sponge Holding Rampley B.I S/S 240 mm (5 Nos)
Handle size 3 for scalpel blades size 10-15 (1 Nos)
Handle size 4 Scalpel blades size 20-24 (1 Nos)
Needle Holder Kilner's 155 mm (1 Nos)
Needle Holder Mayo Hagar B.I.S/S 180mm (2 Nos)
Scissor Blunt Point Straight S.I. S/S 180mm (1 Nos)
Scissors Mayo's CO Flat 200 mm S/S (1 Nos)
Scissors Mayo's Straight 200 mm S/S (3 Nos)
Scissors Vindoe's CO Flat 150 mm S/S (1 Nos)
Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)
Retr. Lange beak, H/H 26x64 Blade, 2±0 mm Long (2 Nos)
Retr. Deaver #5-Blade 75mm, Length 305mm (1 Nos)

Handwritten signature/initials

26	Suction Machine Heavy Duty	2	0	0	2	Project Director Health Department Government of Sindh, Karachi				
	Suction Machine Heavy Duty									
	Suction Machine with two polycarbonate collection jars of 2000ml each									
	4 antistatic castors, 2 with brakes									
	Piston type, oil free									
	Pump flow: Minimum 60L/min and more									
	overflow prevention									
	Hydrophobic PTFE filter									
	3 m PVC Suction tube									
	Metallic curved and straight catheter									
27	Must be CE / FDA Approved Country of origin should be UK/ USA/ EEC./Japan									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
	Glucometer	16	8	0	24					
	Glucometer									
	□ Easy operation									
	□ Method: Glucose Oxidize enzyme electrode method									
	□ Measuring range: 10-600 mg/dL									
	□ Sample size: 0.5 µL									
	□ Measuring time: 5-7 seconds approx.									
	□ Digital Reading Display: LCD									
	□ Power supply: Dry battery									
	□ Automatic power-off									
	□ Data management/Memory of at 250 - 1000 results with time and date									
	□ Option of QC lockout									
	□ Strips should be in individual foil packing									
	□ Complete with lancet and puncturing device									

28	<p>Must be CE Marked Product/ Export Quality</p> <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p> <p>Ambu Bag Adult</p> <p>Ambu Bag Adult</p> <p>100% latex-free Ambu bags</p> <p>Built-in pressure limitation</p> <p>Suitable for adults</p> <p>with face mask and single shutter valve.</p> <p>Autoclavable at 134°C.</p> <p>Must be CE Marked Product/ Export Quality</p> <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p>	2	0	0	0	2				
29	<p>Ambu bag paed</p> <p>Ambu bag paed</p> <p>100% latex-free Ambu bags</p> <p>Built-in pressure limitation</p> <p>Suitable for paed</p> <p>with face mask and single shutter valve.</p> <p>Autoclavable at 134°C.</p> <p>Must be CE Marked Product/ Export Quality</p> <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p>	2	0	0	0	2				
30	<p>Emergency Resuscitation Trolley</p> <p>Emergency Resuscitation Trolley</p> <p>Emergency trolley - 3 drawers or more</p>	7	0	0	0	7				

Structure and drawers in epoxy powder coated steel with antibacterial and antimicrobial treatment, to improve Infection Control
Walls moulded strong polymer
Ample worktop with moulded 4-sides raised rim and ergonomic built-in push handle, scratch resistant
Extendable writing surface
Equipped with:
3 drawers in painted steel mounted on steel ball-bearing fully-extending rails, complete with handles with label holder for quick identification of content:
1 drawer with Central locking system by knob with security breakable plastic seals.
Upper part:
S/S IV pole holder with 2 S/S hooks, height adjustable
One (R/L) side:
2 transparent tilt-out bins
Shelf for vacuum pump
Back side:
Oxygen tank compartment with holding straps, from 3 to 7 liters
Storage space for catheters / probes
One Side (R/L):
Waste basket without lid, with removable internal
Must be CE / FDA Approved Country of origin should be UK/USA/ EEC /Japan

Project Director
Healix Hospital
Government of Sindh, Karachi

[illegible]

[Handwritten signature]

*Project Director
Rajahmundry Hospitals
Health Department
Government of Sindh, Karachi*

37	Centralized Medical gases supply system	0	0	1	1
	Centralized Medical gases supply system				
	Complete with Vacuum System				
	AUTOMATIC MANIFOLD FOR OXYGEN FOR 2 X 10 CYLINDERS 1 No.				
	WITH CONNECTION TO VIE TANK.				
	The Control Panel should handle three sources i.e. Two sided cylinders and one VIE Tank.				
	The Manifold shall be a fully automatic type & shall switch from Tank / Generation System to Cylinders bank without fluctuation in delivery supply line pressure				
	The system should be able to maintain continuous supply in case of power failure.				
	Capacity: 70-90, M3/h.				
	Function:				
	Fully automatic self-contained shutt-le-valve with no electrical power required for switching. Microprocessor based control panel with display.				
	Units of measure (psi/Pa/Bar).				
	Make				
	ITEM 2				
	AUTOMATIC MANIFOLD FOR NITROUS OXIDE (2 X 5) 1 No				

7

Project Director
Health Department
Government of Sindh, Karachi

The Manifold shall be a fully automatic type & shall switch from "Bank in Use" to "Reserve" bank with out fluctuation in delivery supply line pressure & with out the need for external power after the switch-over the "Reserve" bank shall then become the "Bank in Use" and the bank in use shall become the reserve bank. The System should be able maintain continuous supply in case of Power failure.	
Capacity 10 - 50 M3/ h.	
Function:	
Fully automatic self-contained shuttle-valve with no electrical power required for switching. Microprocessor based control panel Service and maintenance works can be carried out without stopping operation.	
Make	
ITEM 3	
WALL OUTLET	
Outlet should have double lock quick connect and gas specific. The latch / locking release mechanism should be incorporated on the gas outlet with geometrical key indexing and should have a parking facility so that in the event of release of probe by pressing the spring loaded center, the probe / flowmeter does not fall down.	
Gas outlets wall mounted, Complete in Box/casing gas Specific, Self sealing valve, indexed to eliminate interchangeability/erroneous tapping of gas and cover plate.	
Oxygen	Qty. 92 Nos.
Nitrous Oxide	Qty. 6 Nos.
Compressed Air 4/5 Bar	Qty. 92 Nos.
Make	

20/11/2019

Project Director
Health Services, District
Government of Sindh, Karachi

<u>ITEM 4</u>	
<u>Air Venturi System with Gauge 25 Nos.</u>	
The injector should be connected to wall source of pressure gas using direct probe or rail mounting system, Max. Vacuum 650 to 700 mbar.	
System should be supplied with 02 liter Un Breakable & Sterilizable collection jar.	
Make	
<u>ITEM 5(a)</u>	
<u>Multiple Zone Valve Box with Monitoring Gauge for three gases 3 Nos.</u>	
Microprocessor controlled with digital display of pressure.	
Each wall type zone valve box shall consist of the following Components:	
A steel valve box which can house two to four shut off ball valve with tube extensions.	
Make	
<u>ITEM 5(b)</u>	
<u>Multiple Zone Valve Box with Monitoring Gauge for two gases 4 Nos.</u>	
Microprocessor controlled with digital display of pressure.	
Each wall type zone valve box shall consist of the following Components:	
A steel valve box which can house two to four shut off ball valve with tube extensions.	
Make	
<u>ITEM 6</u>	
<u>CEILING PENDANTS:</u>	05 pendants

Each pendant comprises O2 Oxygen, 2Air 4Bar & 1 Nitrous Oxide Point
Flexible Ceiling Type Outlets:
Make
ITEM 7
<u>OXYGEN FLOW METER WITH HUMIDIFIER & PROBES: 80 Nos.</u>
With autoclave able and unbreakable humidifier bottle and probe.
ITEM 8
<u>COPPER PIPING (IMPORTED FROM UK, EUROPE, USA):</u>
Supply and installation of seamless copper pipe, deoxygenized and for use in piped medical gas systems
Therefore it is guaranteed that the tubes are leak-tight, free of pores, blisters etc. Tube is drawn seamless, according to HMT 2022 (HTM 02-01) Or equivalent.
Material :-
Copper tubes, including fixing clips for ceiling and walls, sleeves, reducers, tee's bends and soldering material.
1350Meter Size 15 x 1.
1500 Meter Size 12 x 1.
Make
ITEM 9
<u>ANESTHESIA SCAVENGING SYSTEM 6 Nos.</u>
Anesthetic gas scavenging systems designed to remove exhaled anesthetic gas mixtures from operating theatres driven by Air/Oxygen at 05 bar or through vacuum plant, anesthetic rooms and recovery area.

Project Director
Health Engineering Services
Government of Sindh, Karachi

2/1/24

Make
ITEM NO 10
<u>Oil Free Duplex Air Compressor System</u>
C1 DUPLEX SYSTEM
100% oil free 10 HP duplex Medical Air Compressor Plan with air dryer, filters, Bypass system, Electrical Panel
Air Compressor System x 2
Motor Power (KW / HP): 3.7 / 5
Piston Displacement: 541 lit/min
Free Air Flow: 440 lit/min
Working Pressure: 9.5 KG/CM2G (135 PSI)
Power Source: 380V / 3PH / 50HZ
Noise Level: 74 dB(A) at 1.5 Meter
Tank: 125 Liters
<u>Air Dryers</u>
2 x Dryer Model: AMH-12
Volume Flow Rate @ inlet: 1200 lit/min @80 °C
Max. Operating Pressure: 14 barg.
Max. Ambient Temperature: 45 °C
Pressure Dew Point: +3 °C
Refrigerant:
Power Source: 230V / 1PH / 50-HZ
<u>Filtration</u>
2 x Pre-Filter: FT-012P – 1200 lit/min (3 Micron) ½"
4 x After-Filter: FT-012X – 1200 lit/min (0.01 Micron) ½"
1.5" By Pass System (Local with Imported Fittings):

Project Director
Health Department
Government of Sindh, Karachi

40	Agar dissolution temperature range : 60 to 100°C Chamber material : SUS304 (Stainless steel) Sterilization timer : 1 to 250 minutes									
	Auto start timer : 1 minutes to 7 days Pressure gauge : 0 to 0.4 Mpa									
	Must be CE / FDA approved Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
	Baby Running Trolley with Warmer	5	0	0	0	5				
	Baby Running Trolley with Warmer									
	Mobile resuscitation trolley with overhead warmer with integrated baby bassinets along with Cushioned mattresses.									
	Microprocessor control.									
	Audible and Visual high and low temperature alarms.									
	Display of skin Temperature, Air Temperature									
41	Heater output (%).									
	APGAR Timer,									
	Resuscitation system									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan									
	Defibrillator with ECG Display	4	1	0	5					
	Defibrillator with ECG Display with all Standard Accessories									

Project Director
Health Department
Government of Sindh, Karachi

<ul style="list-style-type: none"> • Adult/Pedia Paddle, Biphasic External Battery pack and all Standard Accessories
<ul style="list-style-type: none"> • Biphasic Tran thoracic (external) defibrillator.
<ul style="list-style-type: none"> • Synchronized output with ECG.
<ul style="list-style-type: none"> • Control of energy charging/ delivering on main panel & apex paddle.
<ul style="list-style-type: none"> • Charging Indicators.
<ul style="list-style-type: none"> • The energy range should be adjustable for pedia and adults
<ul style="list-style-type: none"> • The Energy levels: 2, 5, 7, 10, 20, 30, 50, 100, 150, 200, 300, 360 joule, Auto sequence.
<ul style="list-style-type: none"> • Energy Selection: Rotating knob on unit, typical charging time to 360J: 8 second.
<ul style="list-style-type: none"> • Energy Selection: Rotating knob on unit
<ul style="list-style-type: none"> • Typical charging time to 360J: 8 second
<ul style="list-style-type: none"> • Defibrillation: Via Paddles or combined defibrillation/pacemaker electrodes
<ul style="list-style-type: none"> • Printer: 50 mm thermo-printer with 2 registration channels at 25mm/sec feed rate.
<ul style="list-style-type: none"> • AED facility.
<ul style="list-style-type: none"> • Charging Time for full energy will be less than 5 sec.
<ul style="list-style-type: none"> • Screen Size of approx. 5 inch.
<ul style="list-style-type: none"> • Display of HR, ECG through paddles & Lead patient cable.
<ul style="list-style-type: none"> • ECG Derivation: Via 3-lead (I, II, III, aVL, aVR, aVF, V) ECG cable or via combined defibrillation/pacemaker electrodes, with 12-leads
<ul style="list-style-type: none"> • Built in recorder for printing of full summary.
<ul style="list-style-type: none"> • Alarms for High and low Heart rate, low battery warning.
<ul style="list-style-type: none"> • AC 220V / 50Hz operated.
<ul style="list-style-type: none"> • Built-in Rechargeable battery with charger for minimum 25 shocks at max. energy.
<ul style="list-style-type: none"> • Built in auto tester.

Project Director
 Health Planning Department
 Government of Sindh, Karachi


 62

42	<ul style="list-style-type: none"> • External pediatric and adults Paddles, ECG cable. • Compliance with international standards of MDO / FDA. • AC 220V / 50Hz operated
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End
	Must be CE / FDA approved
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan
	Digital video Colposcope.
	Digital video Colposcope.
	Flexible
	Magnification 15X
	Focus length: 300 mm
	Field of view: diameter 22 mm
	Depth of field: > 18/4/2 mm
	Light intensity: > 28,000 lux
	Interchangeable adjustable eyepiece 12.5X
	Illumination: longlife 5.9V / 5W LED
	Superior optics with individually adjustable eyepiece
43	Built-in rheostat for brightness adjustment
	Easily changeable, LED bulb
	User-selectable built-in green filter
	Two (gross/fine) focus adjustment handles
	Two (gross/fine) height adjustment handles
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan

Project Director
Health Department,
Government of Sindh, Karachi

43	<p>Bio Chemistry Analyzer</p> <p>Bio Chemistry Analyzer</p> <ul style="list-style-type: none"> • Extensive dedicated test menu validated for optimum use • Low reagent & sample volumes • Light source: Quartz Iodine Halogen lamp 12V, 20W • Wavelength range: 8-12 position filter wheel (340-620nm) • Photometric range: -0.100 to 2.300 abs • Flowcell: Metal with quartz windows • Aspiration System: Internal pump of bellows type, Automatic aspiration • On-board printer (optional) • Dry block thermostat for incubating cuvettes (optional) • Rapid, programmable temperature control (Temperature range 20°C to 40°C (in 1°C increments). Heats to 37°C < 30 seconds & cools from 37°C to 25°C in <1min) • Advanced error sensors (Automatic flagging ensures inaccurate results & testing errors are easily detected. Humidity and temperature sensor. Pressure sensing to alert user if no liquid is present, or if liquid is removed before aspiration is complete.) • Open Channel is available. • Liquid crystal display view area: 122(W) x 92(H) mm • Calibration: Automatic on upto 10 standards • External Keyboard Option: PS2 type port for external keyboard • Memory for at least last 100 test results • High contrast graphical LCD display <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p> <p>Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan</p>	0	1	0	1	2
44	<p>Over Head OT Top Light</p> <p>Over Head OT Top Light</p> <p>with all Standard Accessories</p>	1	1	0	1	2

Project Director
Health Department
Government of Sindh, Karachi

2/1/2019

<ul style="list-style-type: none"> • High performance LED illumination for every type of surgery • Cold Light • White Light • Excellent contrast in the operating field • Shadows reduction in the surgical field and total illumination of the surface and at depth – 	
<ul style="list-style-type: none"> • BRIGHTNESS ADAPTER • IR-free light without heat in the surgical area and on the surgeon's head • A range for the integration of multimedia solutions • The design guarantees compatibility with laminar flows • Light-up system for minimally invasive surgery. The light beams coming out from the upper 	
<ul style="list-style-type: none"> • part of the light head enable to visualize distinctly the surgical field maintaining the correct vision of the screen • Digital touch control Surgical field focusing • IR Digital Finger touch sensor for intensity control • Power consumption 190 W + 140 W (For both Light Head) • Frequency 50/60 Hz • Product class (EM60601-2-4)I1 	
<ul style="list-style-type: none"> • Light source technical data • Light Source : LEDs • Average life : 50,000 h • Max power : 180 W + 140 W (For Both Light Head) • Lighting at the centre, E_c @ 100cm • Illumination 2 x160,000 lux @ 1 meter-100cm (with one Light Head) • Total illumination 320,000 lux @ 1 Meter-100cm with both light head • Light regulation from 100% to 10% Digital Control • Color temperature, CCT 4,900° K ± 5% • Color rendering index, Ra 95±1 • Chromaticity coordinates x=0.34, y=0.34 • Temperature increase on patient 1°C 	

Project Director
Health Department
Government of Sindh, Karachi

2/10/2019

45	<ul style="list-style-type: none"> • Light field dimension d10 @ 100cm 26cm • Light field dimension d50 @ 100cm 13cm • Lighting depth L1+L2 : 111 cm • Lighting depth L1+L2 : 114cm • Light source technical data • Light Source : LEDs • Average life : 50,000 h • Max power : 180 W and 140 W • Lighting at the centre, E_c @ 100cm • With DOF function 160,000 lux @ 100cm • With DOF function 150,000 lux @ 100cm • Light regulation from 100% to 10S • Color temperature, CCT 4,900 °K ± 5% • Color rendering index, Ra 95±1 • Chromaticity coordinates x = 0.34, y = 0.34 • Temperature increase on patient 1°C • Light field dimension d10 @ 100cm 26cm • Light field dimension d50 @ 100cm 13cm • Lighting depth L1+L2 : 111cm <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p> <p>Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan</p>	0	2	0	2
	Nebulizer Machine Ultrasonic Heavy Duty				
	Nebulizer Machine Ultrasonic Heavy Duty				
	Ultrasonic Energy for uniform and highly dense particles of 1-5 microns size				
	Filtration rate of atleast 95% of 0.3 micron or larger dust particles to provide purified air for aerosol				
	Autoclaveable delivery pipes.				
	Mobile stand with solution battels for safety.				
	Nebulizing rate of 4 ml / min with particle Appr. Size of 1-5 microns.				
	Nebulizer time setting from 0-30 mins.				
	Medication cup capacity: 150ml				
	Power 220 Volts / 50 Hz with rechargeable battery operation				

Project Director
Rafiq, Durrani Hospital
Government of Sindh, Karachi

7/6/20

46	One extra flexible arm / delivery pipe.									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
47	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan									
	Refrigerator									
48	Refrigerator									
	Haire /dowlance/LG/Orient/ or Equivalent	1	0	0	1	3				
49	CE Marked / Export Quality									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
50	Retinoscope	0	2	1	3					
	Retinoscope									
51	Rotation: 2190 degree									
	Length of streak image: 230mm									
52	Width of Length image: 21.5mm									
	Operation mode: Intermittent, On-time should not exceed to 2 min with off-time not less than 5 mins									
53	Includes: Desktop charger & rechargeable handle.									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
54	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan									
	Suction Machine	0	11	0	11					
55	Suction Machine									
	Suction Machine with two polycarbonate collection Jars.									
56	4 antistatic castors , 2 with brakes.									
	Piston type, oil free.									

Project Director
Health Department
Government of Sindh, Karachi


51	Linearity (+/-) : 0.5 mg Pan Size (mm / inch) : 900 / 3.5" Ø Response Time : 2 - 3 Sec Display : Alpha Numeric LCD Display Calibration : Motorised Internal Calibration Units of measure : g, mg, ct, GN, mo, oz, dwt etc. Rate Range : Full Operating Temp. : + 10° to 40°C Sensitivity Drift. : 6 ± 2 ppm (2 x 10 / %C) Minimum Sample Wt. as per USP : Approx 100 to 150mg Minimum Wt. as per (U=1%, sd=2) : 8 mg Application Modes : mg PCS, % Weighing, Animal / Dynamic Weighing, Check Weighing Automatic Density, Determination Should be CE Approved / Export Quality Warranty period shall be of three years starting from date of supply of equipment to the Consignee End					1	0	0	1
	Diathermy Machine Diathermy Machine <ul style="list-style-type: none"> • Diathermy Electro Surgical Unit Bipolars & Monopolar (Vie-cart System Carrier); • A Microcontroller-based isolated electrosurgical generator along with cart • For all general surgical procedures. Including the adaptive RFM system and instant response system. • Power Supply 220 Vac 50/60 Hz • Safety Features & Specifications: • Instant / Response technology • Three internal microcontrollers • Spray coagulation • Leakage Current Controller • RF Interference • Dosage error power monitor • Support for simultaneous coagulation • Recall of most recently used mode and power settings 					1	0	0	1

Project Director
 Health Department
 Government of Sindh, Karachi

70

<ul style="list-style-type: none"> Adjustable activation tone volume Force Argon system compatibility. 2 Monopolar instrument receptacle 2 Monopolar footswitch receptacles 1 Bipolar instrument & receptacles Preset monopolar cut 3 modes Preset monopolar coag 4 modes Preset Bipolar 3 modes 	<ul style="list-style-type: none"> Maxim monopolar output (out) 300 Watts Maxim monopolar output (Coag) 120 Watts Maxim output (Bipolar) 70 Watts Safety Standards IEC-601-1 IEC-601-1-2 IEC-601-2-2 Consisting of: Electro Surgical Generator Power Supply 220 vac 									
	<ul style="list-style-type: none"> 50/60 Hz. Double pedal monopolar foot switch Foot Switching Pencil Reusable Std Bipolar foot Switch Bipolar forceps cord Crushing Forceps Patient return Electrode without Cord Clamp cord Universal Monopolar Adaptor Polished Stainless Steel Blade Electrode Blade Electrode Stainless Steel Fine Needle Electrode Stainless Steel Ball Electrode Tungsten Wire Loop Electrode Hand Switching pencil reusable FDA / CE or IEC Certificate 									
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End									
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan									
	Minor OT Table	0	1	0	1					
	Minor OT Table									
	Multipurpose Hydraulic Operation table									
	Patient weight bearing capacity should be 200kg or more.									
	52									

Project Director
Health Services Department
Government of Sindh, Karachi

56	<ul style="list-style-type: none"> • Up to 48 hours of disclosure store and review • Set up the color of waveforms/parameters • Exchanging the position of patient window • Supporting Saada; external thermal recorder • Data Backup • Managing patient information • Compatible with Component Multi parameter Monitors <p>Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan</p> <p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p>	3	1	0	4	
	<p>ECG Machine</p> <p>ECG Machine</p> <ul style="list-style-type: none"> • ECG Machine 12 channel with Standard Accessories & Trolley including consumable. • Single channel ECG machine for 12 lead ECG recording - Sensitivity : 5, 10, 20 mm/mV Reflective LED displays gives process information on; - Electrode faults, battery operation paper end <p>Heart Rate: 35-240 min-1</p> <p>Dimensions: W x D x H 338 mm x 340 mm x 98 mm</p> <ul style="list-style-type: none"> • Operating Features And Characteristics • Manual and Automatic Operation • Thermal print head on A-4 size print. • Standard single channel with ECG paper in roll, 50 mm thermo-printer with 2 registration channels an 25mm/sec feed rate chart magazine or 2 fold form • Recording Trace speed: 25 and 50 mm/sec • Muscle artifact and AC 150Hz. interference filters • Defibrillation protection. 					

Project Director
Health Services Directorate
Government of Sindh, Karachi

57	<ul style="list-style-type: none"> Parameters Lead Selection Lead I, II, III, aVR, aVL & aVF, V1, V2, V3, V4, V5 & V6 Variable gain: 1/2, 1, 2 cm/mV Other Features Complete with standard accessories, including patient cable with re-usable electrodes for adult Operating Requirements AC 220V / 50Hz operated Built in re-chargeable battery and charger for at least 30 min operation. Compliance with international standards of safety and quality like MDD / FDA approval. Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan Warranty period shall be of three years starting from date of supply of equipment to the Consignee End 	3	0	0	0	3				
	<u>Baby Incubator</u> <u>Baby Incubator</u> Micro processed control with display 5 oval small doors + 1 Iris Double wall Front and back opening 8 raisin-cables Trendelenburg and Trendelenburg reverse. Built in humidity servo control with Sensor of humidity & Skin temperature sensor, air & skin temp display 20°C to 37°C and 35°C with alarm Movable Stand Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan Warranty period shall be of three years starting from date of supply of equipment to the Consignee End	2	0	0	0	2				
58	<u>Radiant Warmer</u> <u>Radiant Warmer</u>									

Project Director
 Ministry of Health, Government of Sindh, Karachi

7/5

60	REFRACTOMETRY	<ul style="list-style-type: none"> Vertex Distance (VD) : 0.0, 12.0, 13.5, 15.0 Sphere (SPH) : -25.00~-22.00(When VD=12mm)(Increments:0.12and0.25D) Cylinder(CYL) : 0.00~10.00D(Increments:0.12 and 0.25D) CLBC Mode : 1 ~ 180°(Increments : 1°) Cylinder Form : -, +, = Pupil Distance : 10 ~ 85mm Minimum Pupil Diameter :ø 2.0mm 							
	KERATOMETRY	<ul style="list-style-type: none"> Radius of Curvature : 5 - 10.2mm(Increments : 0.01mm)33.00~67.50D Corneal Power : (when corneal equivalent refractive index is 1.3375) o : (Increments : 0.05/0.12 /0/25D) Ax : 1 ~ 180°(Increments : 1°) Pupil, IrisDiameter : 2.0~14.0mm(Increments :0.1mm) Memory of Date : 10 measurements for each eye 							
	OTHERS	<ul style="list-style-type: none"> Internal Printer : Thermal Line Printer Power Saving : Automatic switch - off(5min) Display : 5.5 inch Color TFT LCD 							
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan								
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End								
61	Nitrous Oxide Cylinder								
	Nitrous Oxide Cylinder with trolley . BOC Tested								
	Should be CE Approved / Export Quality								
61	Blood Bag Rotator								
	Blood Bag Rotator								

Project Director
Health Department
Government of Sindh, Karachi

67	Telephone Set	13	0	0	13				
	Panasonic/Sony/LG/ or Equivalent Warranty period shall be of three years starting from date of supply of equipment to the Consignee End								
68	Computer with monitor complete set	2	0	0	2				
	Computer with LCD complete set								
	Core Si								
	3.3 Ghz optical super combo								
	500 GB HDD								
	4 GB DDR 3 RAM								
	19" LCD Monitor								
	Key Board & Mouse								
69	Intel / Dell / Hp / or Equivalent Warranty period shall be of three years starting from date of supply of equipment to the Consignee End	1	0	0	1				
	Fax Machine								
	Fax Machine								
	10-ppm Laser Printing (A4)								
	600 x 600 dpi Printing Resolution								
	Caller ID Ready								
	Super G3 Fax with 33.6 kbps Modem								
	250-Sheet Paper Tray								
70	HP/Samsung/Sonyer/ or Equivalent Warranty period shall be of three years starting from date of supply of equipment to the Consignee End	1	0	0	1				
	Laser Jet Printer								
	Laser Jet Printer								
	Print Speed: up to 35 ppm-black normal - letter A Size (8.5 in x 11 in) up to 35 ppm-black normal - A4 Size (8.25 in x 11.7 in) Interface: 801, G cable, LAN								

Project Director
Health & Family Welfare
Government of Sindh, Karachi

[Handwritten Signature]

[illegible]

[illegible]

76	Direct Ophthalmoscope	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	1	0	1
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End					
	Lactometer					
	Lactometer					
77	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End	4	0	0	4	
	Must be CE Marked Product/ Export Quality / Local					
78	Surgical Drum	20	0	0	20	
	Surgical Drum					
	Drum, domed top and bottom with sliding removable band and drop down-hasps					
	Made from imported stainless steel, Rust resistant and Satin finish					
	CE Marked Product/ Export Quality / Local					
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End					
79	Lift Elevator					
	Lift Elevator					
	With Complete Installation					
	Must be CE / FDA Approved Country of origin should be UK/USA/ EEC./Japan	0	0	2	2	
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End					
80	X-Ray Illuminator	2	0	0	2	
	X-Ray Illuminator					

Chief Executive Officer
Government of Sindh, Karachi
Health Department
Sindh District Hospital
District Director

81	Illuminator for viewing of x-ray film.								
	Size: 8x10 ~ 14x17"								
	Single view acrylic sheet of 2mm.								
	Fluor tube light with heavy duty switch.								
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End								
81	Must be CE / Imported								
	Snellen Chart								
	Snellen Chart								
	Warranty period shall be of three years starting from date of supply of equipment to the Consignee End								
	Must be CE Marked Product/ Export Quality / Local								


 Project Director
 Rehab: DHQ/THQ Hospitals in Sindh
 Karachi

Project Director
 Rehab: DHQ/THQ Hospitals
 Health Department
 Government of Sindh, Karachi