



**OFFICE OF THE DIRECTOR
JACOBABAD INSTITUTE OF MEDICAL SCIENCES (JIMS)
JACOBABAD (SINDH)**

No. DIR/JIMS/JCD/(Admin) _____/-

Dated 2017

TENDER NOTICE

The Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad is hereby inviting sealed bid Single stage – Two Envelope of following Tender.

Procurement of Electro Medical Equipment/Instruments, Generator set & Air-Conditioners

TERMS & CONDITIONS

- The terms & conditions and other specifications of each item will be available in the “**TENDER DOCUMENT**” which may be purchased by interested bidders on submission of written application from Accounts office JIMS, Jacobabad during working hours on payment of Rs.3000/- (Three Thousand Only) non-refundable fee through Pay Order in the name of **Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad**. Interested bidders, who wish to receive Bidding Documents through courier, should provide an additional amount of Rs.400/- for delivery within Pakistan.
- The Bidder shall furnish Earnest Money in shape of Pay Order of equivalent to **2%** of estimated value of their bids, in favour of **Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad**.
- The Tender Documents will be available from the date of publication of advertisement in Newspapers up-to 25th April, 2017 and submitted the same by 11:30 AM. The bid will be opened publicly on 25th April, 2017 at 12:30 PM in presence of bidders or their authorized representatives who choose to attend in the Committee room at JIMS, Jacobabad.

Date of Issuance	From 1 st day of publication of this Notice
Last Date & Time of Submission	Tuesday 25 th April, 2017 at 11:30 AM
Date & Time of Opening of Bid Document	Tuesday 25 th April, 2017 at 12:30 PM
Place of issuance of Bid Document	Accounts Department Jacobabad Institute of Medical Sciences, Circuit House Road, Jacobabad
Bid Security	2% of bid price (Pay Order) in the name of Director Jacobabad Institute of Medical Sciences (JIMS)
Bid validity	90 days

- In case Govt. announces Public Holiday, tender will be submitted on next working day by 11:30 AM and shall be opened at 12:30 PM (same day).
- Any type of correcting fluid or overwriting on tender form will not be accepted only typed quotation will be considered.
- The purchaser reserves the right to accept / reject bid under the relevant provisions of SPPRA Rules 2010 (amended 2013).
- The Bidder should enclose a copy each of NTN Certificate, Sales Tax Registration Number, CNIC and PEC registration certificate (if applicable).
- Successful bidders to supply items as per work order.
- The payment will be made on the supply of equipment/services and clearance of bills from DAO, Jacobabad.
- Incomplete Tender Documents will not be accepted in any case.

District Population Welfare Officer
JACOBABAD
member

Dr. Muhammad Ali Laghari
Director JIMS, Jacobabad

Chairman



OFFICE OF THE DIRECTOR
JACOBABAD INSTITUTE OF MEDICAL SCIENCES (JIMS)
JACOBABAD (SINDH)

No. DIR/JIMS/JCD/(Admin) _____/-

Dated

2017

To,

The Director Information
Advertisement, Government of Sindh,
Information Department,
Karachi.

SUBJECT: RELEASE OF GOVERNMENT ADVERTISEMENT IN THREE (03) LEADING NATIONAL/ REGIONAL NEWS PAPERS ENGLISH, URDU & SINDHI (PREFERABLY JANG, DAWN & KAWISH)

Enclosed please find herewith seven (07) copies of Tender Notice invited for "Procurement of Electro Medical Equipment/Instruments, Generator set & Air-Conditioners." as mentioned in the Tender Notice attached, pertaining to Jacobabad Institute of Medical Sciences (JIMS), Jacobabad for the year 2016-17, which may kindly be published in three (03) widely circulated leading English, Urdu & Sindhi Newspapers, (Preferably in Daily Jang, Dawn & Kawish) within Three (03) days of receipt.

2. The advertised copies of Newspaper clippings may be furnished to this office along with bills for early payment.

3. PLEASE, ACCORD PRIORITY.

Dr. Muhammad Ali Laghari
Director JIMS, Jacobabad

Chairman

Cc to:

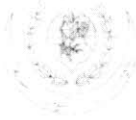
1. Chairman, Vice Chairman & Members Board of Governors (BoG), JIMS, Jacobabad.
2. The Secretary to Government of Sindh, Health Department, Karachi
3. The Managing Director SPPRA, with request to hoist the attached Tender Notice on website.
4. Office File

Director JIMS, Jacobabad

**OFFICE OF THE DIRECTOR
JACOBABAD INSTITUTE OF MEDICAL SCIENCES (JIMS)
JACOBABAD, SINDH.**



**BIDDING DOCUMENT
FOR SUPPLY & INSTALLATION OF
MEDICAL EQUIPMENT/INSTRUMENTS
GENERATOR SET & AIR CONDITIONERS
2016-17**



ORDER

No. HD (P&E) 3-2(361) / 2015. The Government of Sindh, Health Department is hereby constituted the Procurement Committee for purchase of Medicines, Surgical Disposables, Machinery, Medical Equipment etc. in respect of "Jacobabad Institute of Medical Sciences (JIMS)" in accordance with clause 7 of SPPRA with immediate effect until further orders:-

- | | |
|---|----------|
| I. Director
Jacobabad Institute of Medical Sciences (JIMS), Jacobabad | Chairman |
| II. Additional Director (PH)
Health Department, Government of Sindh, Karachi | Member |
| III. District Population Officer, Jacobabad
Government of Sindh. | Member |

Terms of Reference:

- The committee will ensure transparency and observe all codal formalities adhering to Sindh Public Procurement rules 2010 and amended 2013.

Dr. Fazlullah Pechuho
Secretary Health
Government of Sindh, Karachi.

No. HD (P&E) 3-2 (361) / 2015

Dated 16th February, 2017

Copy is for forwarded for information and necessary action to:

1. Chairman, Vice Chairman & All Members of BoG, JIMS, Jacobabad
2. All Members of Committee.
3. Accountant General Sindh, Government of Sindh, Karachi.
4. The District Accounts Officer, District Jacobabad.
5. The Health Specialist USAID Karachi.
6. PS to Secretary Health, Government of Sindh, Karachi.
7. PS to Special Secretary, Health, Health Department, Government of Sindh, Karachi.

(SHAISTA JABEEN)
Additional Director (PH)

Received
Migabul L.D.C
5/4/17.

INDEX

1. (a) Invitation for bids and (b) Knockout clauses
2. Name of Equipment Name and Manufacturer (Annex A, B & C)
3. Terms and conditions
4. Purchaser's right to vary Quantities at time of award
5. Notification of award / Advance contract
6. Award of Contract and Contract Agreement
7. Performance Security
8. Payment Term:
9. Fee for Award of Contract
10. Undertaking
11. Certificate
12. Criteria for Evaluation of Bids
13. Assessment Parameters
 - A. (Marks)
 - 13.1 Availability of Technical Staff of the Company/firm in Reference to the Product, manufacturers Local Agent capacity for technical service with reference to the product
 - 13.2 Manufacturer's local agent capacity for technical services with reference to the product..
 - 13.3 Financial Soundness
 - 13.4 Overall reputation in reference to the Product (Cliental)
 - 13.5 General Overall sales turnover of the Organization
 - 13.6 International sales and country of origin of quoted item
 - 13.7 Product certification
 - 13.8 Exclusive Agency Certificate
 - 13.9 Other
 - B. (Table)
 - 13.1.1 Availability of technical staff of the company/firm in reference to the product:
 - 13.2.1 Manufacturers local agent capacity for the technical service with reference to the product
 - 13.3.1 Financial Soundness
 - 13.4.1 Overall reputation in reference to the Product (Cliental)
 - 13.5.1 Overall Sales turnover of the organization
 - 13.6.1 International sales and country of origin of quoted item
 - 13.7.1 Quality Certification of the quoted products
 - 13.8.1 Details about exclusive rights of the product represented in Pakistan
 - 13.9.1 Submission of documents: Original Brochure
14. Bidders Questionnaire for bid evaluation
15. Bid form and Price Schedule
16. Bid Security Form
17. Contract Agreement
18. Performance security form
19. Manufacturers Authorization Form


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD



**OFFICE OF THE DIRECTOR
JACOBABAD INSTITUTE OF MEDICAL SCIENCES (JIMS)
JACOBABAD (SINDH)**

Due on 25th April, 2017

INVITATION FOR BIDS

The Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad invites the bids:

For Supply & Installation of Medical Equipment /Instruments Generator Set & Air-conditioners.

Bidding is open for all eligible bidders. Bidders can obtain bidding / tender documents prescribed from:

Office of the Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad.

Complete set of tender / bidding Documents may be obtained/ Purchased by the interested bidder on written request to the above office and upon payment of non refundable fee of Rs.3,000 in shape of Pay order in the name of Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad.

Tenders/ Bids are to be dropped in the tender box placed / affixed in the office of the Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad on or before 25th April, 2017 at 11.30 AM and will be opened the same day 12:30 PM

[Signature]
DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

Director JIMS

[Signature]
Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

1(b) CHECK LIST

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

S/NO	DETAIL	YES / NO	PAGE# ANNEX
KNOCK OUT CLAUSES			
1	Original receipt for purchase of tender		
2	The financial envelops should be separated of each item, clearly marked company name and quoted serial item number and name		
3	Copy of earnest money without amount in technical bid		
4	Acceptance of terms and condition, tender documents duly signed and stamped		
5	Sole agency certificate [as per annex: A		
6	Original Literature/ Brochure of product showing complete contact details of the manufacturer (as per annex. B)		
7	Copy of previous installation reports in reputable Govt./Private teaching hospitals/ institutes, etc.		
8	Copy of GST Certificate		
9	Copy of NTN Certificate		
10	Copy of Last three years paid income tax challan & 3 years Audit reports		
11	Copy of registration with chamber of commerce		
12	Bank certificate showing financial capability (Last Six months statements)		
13	Bidders questioner Performa for bid evaluation		
14	No mention of price on technical bid		
15	Certificate / documentary proof to the effect that the Principal is the original manufacturer of the required goods (major components, mainframe, etc)		
16	Certificate regarding quality production conformity with international standards. (Copy of certificate FDA/CE or JIS) Standards (Copy of certificate FDA, CE, JIS [as per annex. C]		
17	Provision of all data on soft copy on prescribed format in shape of CD		

Signature & seal (bidder): _____

2- Annexure "A"

[illegible]

Signature & seal (bidder): _____

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

M. J. Jones
DISTRICT POPULATION WEDNESDAY
JACOBARAD

2- Annexure "B"

[illegible]

Signature & seal (bidder): _____

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

[Signature]
DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

2- Annexure "C"

[illegible]

Signature & seal (bidder): _____

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

[Signature]
DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

3. **TERMS AND CONDITIONS:**

- 3.1 In this tender envelope procedure as per SPPRA 2010 rules will be followed i.e. **Technical** and Financial proposal separately, i.e. single stage two envelope system. 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 envelop at the left side. Moreover, financial envelopes should contain financial bid each item separately. (Commercial offer must be quoted in each item/each envelope)
- 3.2 Initially envelope marked as **"TECHNICAL PROPOSAL"** shall be retained in the custody of the procuring agency without being opened.
- 3.3 Tenders must be filled in with blue or black ink in the column provided and on separated letter head duly signed.
- 3.4 The tenders must be free from erasing, cutting and overwriting. in case of erasing, cutting and overwriting, authorized person should initial it.
- 3.5 Conditional tenders will be ignored and will not be considered / entertained / accepted.
- 3.6 The rates of each item should be written in figures as well as in words. In case of discrepancy the price in words will be taken as authenticate and final.
- 3.7 Tender shall be accompanied by Earnest Money @ 2% of the value of stores quoted by them in form of call deposit / pay order/demand draft in the name of **Director Jacobabad Institute of Medical Sciences (JIMS), Jacobabad.**
- 3.8 **Original purchase receipt must be enclosed with the technical offer.**
- 3.9 Copy of earnest money (without amount) must be attached along with the technical bid and the original along with financial bid in case of disclosure of price or amount of Earnest Money in the technical bid, the bid will be rejected.
- 3.10 The bidder shall furnish General Sales Tax (GST) Registration Certificate of the firm failing which the offer will be ignored. In case the item is exempted from GST either documentary evidence or certificate from competent authority shall be attached with the offer.
- 3.11 The bidder shall furnish copy of valid Professional Tax Certificate, Income Tax Certificate; Last three years paid income tax Challan, proof of registration with Chamber of Commerce.
- 3.12 The equipment to be imported comply/certificate at CE / FDA /JIS standards certificate should be attached along with the offer.
- 3.13 Bidder should submit a fresh bank certificate showing strong financial capability of firm (last Six Months).
- 3.14 Tendirer are required to furnish a detail of technical quotation on their letter head and specify the standard and optional items / accessories as required in the tender specification. Bidder should clearly mention make, model and country of origin of the quoted items.
- 3.15 Tendirer shall purchase separate tender document and furnish purchase receipt for each alternate offer in case they intend submit alternate offer without separate purchase receipt (original) are supposed to be rejected.
- 3.16 No manufacturer shall authorize their distributor/ agent/ any firm or person to quote the same item which manufacturer quoted it-self in any tender. Failing which offer of the manufacturer will be considered and other shall be rejected.

- 3.17 Bid should remain valid for 90 days from the date of financial opening.
- 3.18 Price should be quoted for both "C.I.F and FOR" basis in Figure and words failing which the offer will be ignored. FOR offer should be inclusive of all duties/Taxes/Octroi/Transportation, etc. and all other expenses on free delivery to consignee end at Jacobabad Institute of Medical Sciences (JIMS), Jacobabad.
- 3.19 In case of purchase of C.I.F, the bidder will bear the charges of clearing agent. warehouse Rent, Airline D/O charges and all other charges including transportation to consignee end excluding custom duty and tax. Certificate will be issued by this office or Health Department 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.
- 3.20 Sole agent certificate for the quoted items from the Manufacturer must be attached by the bidder. Certificate should be valid for three years from the date of issue which should be verifiable by concerned authority.
- 3.21 03 years free service including warranty from the date of installation and further 02 years free service without parts. Additionally assurance for the availability of spare parts for at least 08-10 years may also be confirmed by the bidder.
- 3.22 Free installation along with all accessories including labor charges/demonstration at consignee end must be borne by the bidder.
- 3.23 The supplier will be bound to train nominated technical personnel (inland/outland) to operate / repair and maintain the supplied equipment.
- 3.24 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 Government/Private Teaching Hospitals/ repair certificate if any, of the similar quoted item from the end user should be attached along with the bid.
- 3.25 Bidders should confirm the presence of Manufacturers trained service/installation engineers/Technicians and provide the detail of their working experience, Manufacturer training Certificate, list of tools and test equipment, approximate area of workshop in the premises of their office and address along with the bid.
- 3.26 The original printed catalogue / technical brochure showing detail technical specification, clear photo/picture of the quoted item, Manufacturers address, Phone number, address and website must accompany with offer.
- 3.27 For the X-ray Equipments, bidders must submit a valid copy of Registration with PNRA (Pakistan Nuclear Regulatory Authority).
- 3.28 Store is required immediately. The tenderer, may however give their short guaranteed delivery period by which the supply will be completed positively.
- 3.29 Choice to select /ignore any alternate offer shall rest with the purchaser.
- 3.30 If the Contractor fails to attain completion of the supply or installation within the time for completion, 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 may consider termination of the Contract.
- 3.31 Procuring Agency is not bound to accept the lowest or any bid, which is otherwise sub standard and of low quality.

(Signature)
Dr. Muhammad Ali Bakhsh
 Director
 Jacobabad Institute of Medical Sciences
 Jacobabad

(Signature)
POPULATION WELFARE OFFICE
JACOBABAD

- 3.32 Under no circumstances the bidder shall provide used/repaired/refurbished or **defected** medical equipment. If such case happened then, the firm concerned will be black listed and earnest money/security deposit will be forfeited.
- 3.33 If the **uptime percentage** for the measurement period (04 months) shall fall short of 95% the following formula will be applied to determine additional days in the warranty / services contract period.
- | | | |
|----|------------|---|
| a. | 100% - 95% | No Penalty |
| b. | 95% - 90% | The warranty period will be extended by 2.0 times the number of days as extra down time |
| c. | 90% - 80% | The warranty period will be extended by 3.0 times the number of days as extra down time |
| d. | Below 80% | The warranty period will be extended by 4.0 times the number of days as extra down time |
- 3.34 The firm will be bound to make arrangement for availability of qualified technical staff in hospital/site for prompt execution/coordination of after sale service.
- 3.35 Resident / dedicated engineer would be required to be stationed at JIMS for 1 year, where applicable.
- 3.36 The bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices, declared by any Government (Federal/Provincial/District), a Local Body or a Public Sector Organization
- 3.37 Preference will be given to those, who have established service center at Sukkur/Larkana region.

Redressal of grievances by the Procuring Agency

The procuring Agency shall constitute a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidders that may occur prior to the entry into force of the procurement contract.

- Any bidder feeling aggrieved by any act of the procuring Agency after the submission of his bid may lodge a written complaint concerning his grievances not later than 15 days after the announcement of the bid evolution report under Rule 35.
- The committee shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint
- Mere fact lodging of a complaint shall not warrant suspension of the procurement process
- Any bidder not satisfied with the decision of the committee of the procuring Agency may lodge an appeal in the relevant court of jurisdiction.


Dr. Muhammad Ali Laghari
 Director
 Jacobabad Institute of Medical Sciences
 Jacobabad


DISTRICT POPULATION WELFARE OFFICER
 JACOBABAD

4. **PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD .**

The purchaser reserve the right to increase/decrease or delete the quantities of goods etc at the time of award of contract and also reserve the right to enhance the quantity 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.

5. **NOTIFICATION OF AWARD/ADVANCE CONTRACT:**

5.1 Prior to the expiration of the period of the bid validity, the purchaser will notify the successful bidder in writing, delivery by hand or by register by cable to be confirmed that their bid has been accepted.

5.2 The notification of award will constitute the formation of the contract.

6. **AWARD OF CONTRACT & 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.

7. **PERFORMANCE OF SECURITY.**

The successful tenderer will have to deposit with the purchase security depots as under in shape of call deposit / bank guarantee at the rate of 3% of the value of the contract.

8. **TERM OF PAYMENT:**

8.1 Terms of payment for F.O.R purchase 100% after supply of equipment at consignee end.

9 **FEE FOR AWARD OF CONTRACT:**

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

10. **UNDERTAKING**

10.1 That I/We agree whether our tender accepted for total, partial 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.

10.2 I/We understand and confirm the refund of cost different if the same good is/was supplied at lower rates to any other Government / Semi Government Institution in the Province in same fiscal year.

10.3 I/we undertake that: 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.

11. **CERTIFICATE**

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

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

Signature
DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

Signature of Tenderer: _____

Name & Designation _____

Address _____

12. 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 60% marks would be considered for further process.

EVALUATION CRITERIA (ELECTRO-MEDICAL EQUIPMENTS)

S/NO	13. ASSESSMENT PARAMETER	Marks
13.1	Availability of technical staff of the company / firm in reference to the product.	15
Following two companies shall be considered ascertain the availability / expertise of technical staff:		
A.	Number of technical staff	05
i)	At least two technical staff members	05
ii)	01 additional number for every additional technical member shall be granted with maximum up to	05
B.	Technical staffs academic qualification	05
M.SC, BsC Computer Sciences, BE Engineering from recognized institution shall be granted one additional mark. However, B. Tech shall not be considered for additional mark. M.Sc / Master degree holder from recognized institution shall be 2 additional marks.		
13.2	Manufacturer's local agent capacity for technical services with reference to the product.	15
A.	Repair workshop facility with the diagnostic tools and test equipment as submitted along with the quotation	03
B.	Physical size and facility of workshop attached photo.	03
C.	Established Service Center at Sukkur/Larkana.	03
D.	Service manual and other technical documentation list.	03
E.	Availability of spare parts and accessories at workshop list	03
13.3	FINANCIAL SOUNDNESS	
A.	Income tax paid challan for last three years	06
B.	Balance sheet, audited for the last financial year	04
C.	OR Bank statement for last six (06) months	02
If balance sheet and bank statement both are deposited then only marks of balance sheet (8 Marks) would be counted. Tapering down phenomenon regarding rating of marks shall be applied on competitive firms		
13.4	Overall reputation in reference to the product (cliental)	10
Overall reputation of the product shall be envisaged by following criteria:		
A.	References / certificates provided regarding performance of product from head of the concern institute/ hospital.	
B.	References/ Certificates of the product shall be verified by the department independently	
C.	Attestation of being Category "A"	
D.	Purchaser have right to exercise Market Survey / Internet Exploring Survey give indicator marks.	
13.5	General overall sale turnover of the organization	10
A.	60% or more sales proportion of medical equipment (quoted items)	08
B.	40% or more sales proportion of scientific equipment	02
13.6	International Sales and country of origin of quoted item	15
A.	Sale of product in two or more continents	10
B.	Sales of production in single continent	05
13.7	Product Certification	10
Certificate FDA /CE (MDD)/JIS		
A.	Any two certificates	06
B.	Any one certificate	04
13.8	Exclusive Agency Certificate , Attested by Embassy, & Chamber of Commerce from native Country of Manufacturer	08
A.	10 years or more for each products or	04
B.	5 years or more for each products	02
C.	Less than 3 years	02
13.9	Other	05
Submission of original brochures and required certificates as per tender terms and Conditions. 05		

Assessment parameter: 13.1.1

Availability of technical staff of the company/firm in reference to the product:


1. Total Number of Technical Staff: _____
2. No. of B.Sc. degree in Bio-Medical Engineering holder _____
3. No. of B.Tech / Diploma holder _____
4. No. of MSc / Master Degree holder _____
5. Details of Engineers _____

S/NO	Name of Engineer	Qualification	Experience No of Years	Manufacturer's training with name of equipment and duration

Signature: _____

Seal: _____


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

ASSESSMENT PARAMETER: 13.2.1

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 detail of manuals and other supporting documents)

Detail of separate parts and accessories available at workshop: _____

(Please attach a separate sheet mentioning the list of spare parts and accessories)

Assessment Parameter:13.3.1

Financial Soundness

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

Copy audited balance sheet by a recognized audit firm: _____

OR

Copy of Bank statement for the last financial year: _____

Assessment Parameter:13.4.1

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 concerned institute/hospital _____

Signature: _____ Seal: _____


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

Assessment Parameter:13.5.1

Overall sale turnover of the Organization _____

For quoted Medical Equipment: _____

For other scientific equipment: _____

Assessment Parameter: 13.6.1

International sales and country of origin of quoted item

Tender Item No	Name of Quoted Equipment	Manufacturer's declaration mentioning name of continent where the equipments are soled	Country of Origin

Signature: _____

Seal: _____


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

Assessment Parameter:13.9.1

Submission of
documents: Original
Brochure

Tender Item No	Name of Equipment	Manufacturer / Origin

Copy of NTN Certificate:_____

Copy of Sales Tax Certificate:_____

Copy of Professional Tax Certificate:_____

Copy of Chamber of Commerce Registration Certificate:_____

Copy of PNRA Registration Certificate: _____

Note:

Bidders can provide details information on extra sheets by separating them with the uses of annexure.

Name:_____

Designation:_____

Signature:_____

Name of Firm:_____

Stamp of Firm_____

(Signature)

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

(Signature)
DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

14. Bidders Questionnaire for Bid

Evaluation Name of Firm: _____

Address: _____

Ph: _____ Fax: _____

Email: _____ Website _____

Details of Quoted Equipment:

Tender Item No	Name of Equipment	Model	Make	Country/Origin

Signature: _____

Seal: _____


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

15. BID FORM AND PRICE SCHEDULE

Dated _____

Tender No. _____

To:

[name and address of Procuring agency]

Gentlemen and/or Ladies;

Having examined the Bidding Documents including addenda nos: [insert number's], the receipt of which is hereby duly acknowledged, we, the under signed, offer the supply and deliver [description of goods and service] 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 Price attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with 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 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 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 of gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded to contract, are listed below;

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


_____	_____	_____
_____	_____	_____

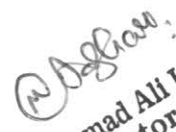
We understand that you are not bound to accept the lowest or any bid you may receive. Dated this _____ day of, 2017.

Signature: _____

In the capacity of: _____

Duly authorized to sign bid for and on behalf of _____


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

16. 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 /or description of goods] (hereinafter called the bid).

KNOW ALL PEOPLE by these presents that we [name of bank] of [name of country], having our registered office at [address of bank] (hereinafter called the bank) are bound up to [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 for:

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 excuse 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, 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 later than the above date.

[Signature of Bank]


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Tahir
Director
Jacobabad Institute of Medical
Jacobabad

17. **CONTRACT AGREEMENT**

THIS AGREEMENT made at _____ day of 20_____ between [name of procuring agency] of [country of procuring agency] (herein after referred to as the "Procuring Agency") of the on Part; and [name of supplier] of [city and country of supplier] (herein after called the "Supplier") of the other Part.

WHERE AS the Procuring Agency invite 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 Witness 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 Specification;
d. The General Conditions of Contract;
e. The Special Conditions of Contract;
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 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 the manner prescribed by this Contract.

IN WITNESS whereof the parties here to 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).


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

18. 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 Suppliers 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 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 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.

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

Signature and seal of the Guarantors / Bank: _____

[Name of Bank or Financial Institution] _____

[Address] _____

[Date] _____


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

19. 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 IBF 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 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.


DISTRICT POPULATION WELFARE OFFICER
JACOBABAD


Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

**TENDER FOR THE PURCHASE OF MEDICAL EQUIPMENT / INSTRUMENTS AT JACOBABAD INSTITUTE OF MEDICAL SCIENCES (JIMS)
FOR THE YEAR 2016 – 17**

Sr. No.	Nomenclature	Description/Specifications	Country of Origin	Quantity
	O.R Suit/ O.T			
1	Anesthesia Machine With O2 Vaporizer	<p>Anesthesia Machine 3 Gas (O2 / N2O / Air) with Ventilator and Two Vaporizer</p> <p>Anesthesia Machine</p> <ul style="list-style-type: none"> -Standard/Cascade flow tubes. -Cascade flow tubes with with electronic flow display providing numeric representation of gas flow -Virtual flow display (VFD) numeric and graphic -Virtual flow display also provides touch screen control of back lighting -O3 Gas (O2 / N2O / Air) with ventilator Comprising of:- - 3 Gas (Oxygen / N2O / Air) - Two Vaporisers Mounting - O3 Gas Rotameter (O2 + N2O + Air) - Mechanical Anti – Hypoxic Device. - Non – inter changeable pipeline inlets - Pipeline & Cylinder gauges for O2 + N2O+ Air alongwith hoses. - Pin Index cylinder yokes. - Gas Outlet and O2 flush control. - O2 Auxiliary O2 power outlets. - Lockable castors. - Monitors Shelf. - Impact resistant & easy to clean frame. - Stainless steel work surface. - Absorber support arm. - O3 Gas flowmeter for O2 + N2O + Air. - Sigma Delta Sevoflurane Vaporizer. - Flow and Temperature compensated (Service Free) - Base lockable 6" Drawer unit. - Main power outlet 220 / 240 Vac (IEC X 4) - Writing Shelf / Platform. - Sharp holder. - High suction Controller with receiver jar of 1.8 Ltrs complete with connections and fittings. - SPA Carbon Dioxide Absorber with Bag Vent and By Pass complete with detachable -The system must have built in heater to control moisturizer 	USA, Europe, Germany or Japan	02


Dr. Muhammad Ali Taqatari
 Director
 Jacobabad Institute of Medical Sciences
 Jacobabad

DISTRICT POPULATION WELFARE OFFICER
JACOBABAD

		<p>Electronic Anesthesia Ventilator</p> <p>12" Large Colour Multiparameter Monitor Touch Screen Anesthesia Ventilator With Built – in Oxygen Monitor, Ultra – accurate Spirometry With advance Ventilation (SIMV, SMMV and PSV)</p> <p>-Combines sophistication and ease of use. -Volume and Pressure Ventilation plus SMMV, SIMV, PSV and PEEP. -Single / dual waveform display</p> <p>-High quality , multi-option product with flexible specification. -Integrated Oxygen Monitor and spirometry. - Inverse I:E Ratio capability. -Electronic PEEP</p> <p>-Autoclavable Latex free bellows. -Oxygen or Air drive gas. -Battery Backup</p> <p>- Magills Breathing Circuit, -Must have HIS capability (Hospital Information System)</p> <p>-Tidal Volume from 5ml to 1600ml. -Should have 30 minute battery backup</p>		
2	<u>Icu Ventilator</u>	<p>Ventilation Modes:</p> <p>(S)CMV+/APVcmv, PCV+ (biphasic), SIMV+/APVsimv, SPONT, ASV, P- SIMV+, NIV, NIV-ST , DuoPAP and APRV</p> <p>Patient Type</p> <p>Should include peads, Adult, neonatal</p> <p>Tidal volume starting from 2 ml up to at least 2000 ml</p> <p>PEEP and CPAP ranges from 0 cmH₂O not less than 35 cm H₂O</p> <p>Integrated CO₂ module should be quoted separately</p> <p>Event Log:</p> <p>Storage and display of not less than 1000 events with date and time</p> <p>Ventilation Cockpit:</p> <p><u>Dynamic Lung:</u> Should show real time visualization of the lungs with representations of tidal volume, lung compliance, resistance and patient activity</p> <p><u>Vent Status:</u> Visual representation of the ventilator dependency</p> <p>Adaptive Support Ventilation target graphics</p> <p>Not less than 41 monitoring parameters</p> <p><u>Real time waveforms:</u> simultaneous display of Paw, Flow, Volume, Ptrachea, CO₂</p> <p><u>Loops:</u> Display of P-V, V-Flow, P-Flow, V-FCO₂, V-PCO₂</p> <p><u>Trending:</u> Simultaneous display of 4 parameter trends for 1, 6, 12, 24, or 72hours</p> <p>Power Supplies:</p> <p>Up to 240 V AC at 50/60Hz, Should have back up batteries with at least 2 hours functionality, Integrated turbine</p> <p>Physical Dimensions:</p> <p>Should have display of 10" or more, TFT color, WXGA, backlit with touch screen</p> <p>To be supplied with: humidifier, disposable patient breathing circuits for neonates, Adult and peads, supporting arm and original trolley</p>	USA, Europe, Germany or Japan	02



Dr. Muhammad Ali Tahir
 Director
 Jacobabad Institute of Medical Sciences
 Jacobabad
 DISTRICT POPULATION MEDICAL OFFICE
 JACOBABAD

3	Portable O.T light	<p>Central illuminance Ec (100 cm) [lx] 100,000 Electrical dimming capability from/to [lx] 25,000 -100,000 Color temperature [K] 4,500 Size of light field d10 at a distance of 1 m [mm] 170 Color rendering index Ra 96 Red rendering index R9 96 Weight of light head [kg] <5 LED lifetime [h] > 40,000</p> <p>Electro Hydraulic Table for Urology, Orthopedic & General Surgery with power floor lock, table slide & foot pump. It should be Heavy Duty. System operated with hand control and foot pump for functions below: a. Height - Up and Down. b. Slide. c. Tilt - Right and Left d. Trendelenburg/Reverse. e. Back - Up and Down. f. Lock/Unlock Override (Auxiliary) control located on the base of the table away from the sterile field. Hand control with back lit illumination. Four electro-hydraulic, powered, self-adjusting posts that can be leveled up to 5 mm. Patient weight capacity 350 Kg, in all possible positions and articulations, including reverser orientation. Built in x-ray cassette channel. Radio translucent table top. Self-diagnosis system with instant error code display to facilitate trouble shooting and servicing. Hand control must have emergency stop button. Hand control must have one touch button for "flex", "reflex", "Level". The table should have longitudinal slide of 300 mm or more so as to obtain unobstructed C-arm access. Head section and leg section can be interchanged to provide maximum x-ray translucent distance to the surgeon. Hand control has reverse orientation mode available to facilitate the operation during reverse positioning. The base and column of the table must be constructed with high quality medical stainless steel (Grade 304, non-reflecting surface, antibacterial and easy to clean).</p> <p>Range of table movements Head up and down +90/-90 degrees Back up and down +80/-50 degrees Leg up and down +30/-90 degrees Split leg manual movement +90/-90 degrees Trendelenburg/Reverse Trendelenburg +30/-30 degrees Height range 680 mm to 1120 mm</p> <p>Including: 02 Arm board (arm rest) 01 Foot Controller 01 Transfer board</p>	USA, Europe, Germany or Japan	3
4	O.T Table (Electro Hydraulic) + Traction System	<p>The base and column of the table must be constructed with high quality medical stainless steel (Grade 304, non-reflecting surface, antibacterial and easy to clean).</p> <p>Range of table movements Head up and down +90/-90 degrees Back up and down +80/-50 degrees Leg up and down +30/-90 degrees Split leg manual movement +90/-90 degrees Trendelenburg/Reverse Trendelenburg +30/-30 degrees Height range 680 mm to 1120 mm</p> <p>Including: 02 Arm board (arm rest) 01 Foot Controller 01 Transfer board</p>	USA, Europe, Germany or Japan	1

	01 Anesthesia screen 02 Leg holders(leg rest) 01 Metal Drain pan Safety Clark Socket for 3/8" x 1 1/8" Side Rail Complete with traction system and related accessories.			
5	Fumigation Unit Engine power: 1200W Chemical tank: 4L Fog droplet: 0~20 micrometer Spray fog volume: 0~15 L/hour Packing: each unit in box. N.W/G.W: 39/42KGS	USA, Europe, Germany or Japan	1	
6	O.T light- Ceiling 160000 lux (1m) or better• Color temperature : 4500K• Color Rendering Index: 96• Filed Size: 180 – 300 cm or better• Working Depth: 875 mm or better• Dimming Range: 25-100%• Temperature rise at surgeon's head: <0.5°C• Life Cycle of the Light: 50000 hour's or better• Power Consumption: 70 Watts Approx or better• Protection against dust & liquids dust. Satellite Light• 140000lx (1m) or better• Color temperature : 4500K• Color Rendering Index: 96• Filed Size: 180-290mm or better• Working Depth: 875 mm or better• Dimming Range: 25-100%• Temperature rise at surgeon's head: <0.5°C• Life Cycle of the Light: 50000 hour's or better• Power Consumption: 55 Watts Approx or better• Protection against dust & liquids dust. Accessories• Removable serializable at 1340c handles 2pcs. Serializable menu knob, 2 pcs.	USA, Europe, Germany or Japan	1	
7	Therapeutic Ultrasound ULTRASOUND THERAPY is a state the art portable ultrasound therapy apparatus offering both 1 and 3 MHz outputs. The unit packed with innovation features: Extremely high power , lots more duty cycle option (anything from 10% to 100 %), improved no-contact features possibility of creating a patient database and pain level monitoring , the industry highest number of pre-set programs for the most pathologist ;simple(one frequency and one duty cycle) or complex (change of frequency and /or duty cycle)program ,memory for saving your own programs ,connection to a stimulator (optional cable required) for combined therapies. Our patient database provides immediate access to the customized treatment allowing it to be easily and quickly repeated. Still ,with these features, is extremely easy and intuitive to operate. Main features • Output frequency for the ultrasound heads is 1 and 3MHz. • Continuous output with a Maximum power of 3W/cm2.	USA, Europe, Germany or Japan	2	

Dr. Muhammad Ali Taghavi
Director
Jacobabad Institute of Medical Sciences
Jacobabad

Jacobabad Institute of Medical Sciences
Director
Jacobabad

<p>  Dr. Muhammad Ali Laghari Director Jacobabad Institute of Medical Sciences Jacobabad </p> <p>  DISTRICT POPULATION WELFARE OFFICER JACOBABAD </p>	<ul style="list-style-type: none"> • Pulsed output with maximum power of 3W/cm². • Ample graphic display showing all output parameters • Large library of pre-set programs for common pathologist • Free program allows user defined parameters • Possibility of storing user defined programs /parameters • No contact indication is both visual and acoustic • Real treatment time means that timer will stop in case of bad contact with skin • Possibility use of different treatment head • The unit can be use in combination with all cosmogamma stimulators • Patients database • Possibility of creating and saving complex sequences of programs. <p>STANDARD EQUIPMENT</p> <ul style="list-style-type: none"> 1pc power cable 1pc tray 36 x 18 x 16 cm 1pc head 1/3 MHz 5cm² <p>TECHNICAL DATA</p> <ul style="list-style-type: none"> • Supply voltage 115- 230 v ~ • Rated frequency 1 MHz/1MHz • Pulse frequency 100Hz with cycle from 10% to 100%, step 10% • Output modes continuous and pulsed • Intensity 0 -3 W/cm² continuous • Output heads 1MHz / 3MHZ , 1 cm² 1MHz / 3MHZ, 5 cm² 1MHz / 3MHZ, 10 cm² With no-contact indication, Suitable for underwater treatment • Time 0 -30 min • Power input 45VA • dimensions (W x D x H): 42 x 56 x 110 cm • weight: 33Kg • insulation class: class I – BF type 	<p>USA, Europe, Germany or Japan</p>	<p>1</p>
<p>8</p>	<p>Hydro Collater</p>	<p>Features: Stainless steel water tanks, full fiberglass insulation to prevent heat lossdependable, rugged stainless steel design. The unit should be thermostatically controlled to ensure the ideal therapeutic temperature for HotPacsSimple to fill with</p>	

		<p>Power: 100-240 VAC, 50-60 Hz Output Frequency: 27.12 MHz Output Power: 100 W Continuous Mode / 200 W Peak in Pulsed Mode Pulsed Width: 20-400 μsec Pulsed Rate: 10-800 Hz Treatment Time: 1-60 minutes Electrical Safety Class: Class B Safety Tests: IEC/EN 60601-1, IEC/EN 60601-2-3, IEC/EN 60601-1-4 Accessories 120 mm capacitive electrodes (2x) Connection cable (2x) Indicator discharge tube Electrode arm left (1x) Electrode arm right (1x)</p> <p>Features: Dual independent channels Adjustable timer on standard and digital units Adjustable frequency and pulse duration parameters Channel: Dual, isolated Waveforms: Asymmetric biphasic square pulse Pulse Amplitude: 0-80 mA each channel adjustable (500 ohm load) Pulse Width: 50-300 μ sec. adjustable Pulse Frequency: 2-150 Hz adjustable Modes: Burst, Normal, Modulated rate and width, Strength duration and bi-pulse Display: LCD display and convenient digital controls Protocol: Clinical Indications on board, providing the most appropriate parameter set for a Variety of conditions 15 user-defined memory positions Battery-powered option Accessories: Set of lead wires, Self-adhesive electrodes 9 V battery Carrying case</p>		
11	Tens Unit		USA, Europe, Germany or Japan	2
	Heating Pad	Complete Set with all Accessories	USA, Europe, Germany or Japan	6
	EMS with Pad	Complete Set with all Accessories	USA, Europe, Germany or Japan	4
	Dental			
	Dental unit with all accessories	<p>Standard configuration: 2-hole high-speed air turbine handpiece tie-in 2 sets 2-hole Low-speed air turbine handpiece tie-in 1 set Three-way syringe (cold and hot water) 1 set each All directional head rest 1 set LED light lamp with mirror 1 set Strong and weak suction 1 set each Rotary assistant position 1 set X-film viewer 1 set OPG X-film viewer 1 set Whole glass spittoon 1 set Sanitary seamless cushion and backrest 1 set each Dentist stool 1 set Lower chair frames SPECIFICATION: Power supply voltage, AC 220V, 50Hz Air source pressure > 0.55 Mpa Water source pressure 0.2 Mpa - 0.4 Mpa</p> <p>1. 18L Autoclave (7 programs) 2. Porous 134°C3. Porous 121°C4. Solid 134°C5. Drying 6. Leak Test 7. SN & Counter 8. Bowie & Dick Specification: 1. Power Supply: 220V 50HZ 2300W 2. Class B, English Menu 3. Integrated Self-contained Steam Generator (Better Steam Infusion) 4. The Key components are from the well-known companies 5. Multi-Safety Protection 6. PC - User, 24 Litre 7. Six-procedure and Automatic process 8. Intelligent Vacuum Drying 9. Double water pumps, Double condensers, Double fans, Detachable Rear Panel 10. Chamber Dimension: 250x475mm 11. Overall Dimensions: H44 x W51 x L66cm 12. Guarantee: 2 years 13. Wooden package: H60.1 * W61.5 * L78cm</p>	USA, Europe, Germany or Japan	1
15	Autoclave- Class B		USA, Europe, Germany or Japan	2

16	Ultra Sonic Scaler	Ultrasonic Scaler - With Endo irrigation option Complete with Detachable Metal Type Handpiece, Function: Scaling, Perio, Endo irrigation Complete with Metal Handpiece 5 Tips, Tips Changing Key, Water Tubing, Foot Control & Power Supply	USA, Europe, Germany or Japan	4
17	3D DIGITAL PANORAMIC OPG with Cephalometric ALTERNATE With FOV (12 X 9)	Digital Dental X-Ray Machine (wall mounted)• Compatible with Digital Intraoral Sensors and Conventional films• 100% imported Scissor arm• Microprocessor controlled • Tube Current 3.5 – 7mA• Tube voltage 60-70 kv• Exposure time automatic adjustable• Timer with integrated circuit• Power on light signal, x-ray emission light signal• Focal point 0.4mm or better with filtration system• Power supply 220V/50Hz single phase	USA, Europe, Germany or Japan	1
Radiology				
18	Digital X-Ray 500 MA Computer Radiography With C-R System	<p>Nominal electrical power 32kw high frequency inverter generator 58khz radiographic tube voltage setting range 40kv to 150kv, 1kv steps radiographic tube current setting range 10, 20, 50, 100, 160, 200, 250, 320, 400, 500 ma user programming functions 7-program selection switches are provided for each radiographic region and 35-programs in total can be programmed in addition, 4-physiques can be selected using the physics selection switches, and total of 140 radiographic conditions can be programmed. exposure time 0.001 to 3.2 sec power requirement single phase, 220/240vb) rotating anode x-ray tube 1824bfocal pot 0.6mm/1.2mm anode heat capacity 100kj (140khz) maximum rating 16kw/36kw.c) h.p.cabled (cable hangere) tubestand floor-to-ceiling type x-ray tube support longitudinal movement 250cm. lateral movement 40cm. vertical movement 166cm electro-magnetic brakes.f) trunnion mountg) beam limiting deviceh) four way floating type tablei) vertical bucky stand distance from the front panel of the bucky device to the film 3.2cm vertical movement of the bucky device approx. 120cm compatible cassette size 18cmx24cm to 35cmx43cm (8"/x10"/to 14"/x 17"/). bucky device movement and lock counter weight and electro magnetic lock applicable exposure time 0.01 to 6 sec grid movement scintillating motion system cr system cassette size 14"x17"/14" x14"/11" x14"/10" x12"/8" x10"/18x24cm /24x30cm/ 15x30 cmsampling pitch 2 types: 87.5µm/175 µm maximum resolution 4,020x4,892 (14"x17", 87.5µm) digital gradation level 4096 levels (12bit) processing capability 60 plates/hour (14"x17"/175µm) slots insertion/ejection slot x1 power Consumption 100va max during operation: 20va when not in use. operating :15-80%rh (no condensation) readable</p> <p>cassette cassette 14"x17", 14"x14", 11"x14", 10"x12", 8"x10", 24x30cm, 18x24cm, 15x30cm readable plate 14"x17", 14"x14", 11"x14", 10"x12", 8"x10", 24x30cm, 18x24cm, 15x30cm RADIOGRAPHIC CONSOLE WITH QA/USER SOFTWARES Image Output. Maximum: Host: 2ch for normal, 1ch for back up Printer: 1ch for normal, 1ch for back up</p> <p>Print Management (SCU), Storage (SCU) Modality Work list Management, modality Performed Procedure Step Grayscale Standard Display Function (Print output) Automatic Image Processing Function Automatic Body Part recognition , Automatic Processing Parameter Study Should be</p>	USA, Europe, Germany or Japan	1

Dr. Muhammad Ali Laghari
Director
Institute of Medical Sciences
Jacobabad

		capable to enter and edit Patient ID Should support image preview and quality assurance Should have temporary storage capacity of upto 2000 or more images LCD/TFT Monitor 19" Touch Screen Type. Output Format: 1X1, 2X1, 1X2, 2X2 3) <u>LASER IMAGER</u> Laser Source: Semiconductor Laser, Film Size 14" x 17", 14" x 14", 11" x 14" or 10x14, 10"x12" and 8"x10" Film Dry Image Recording Film Image Memory: Print Memory (64MB/Standard) Image Data Input: 12-Bits/8-Bits Output Gradation: 16384 Levels (14-Bits) Image Mode: Pixel Replication/Function Interpolation Process Resolution: 25µm or better. Input Interface: Ether 10base-T / 100 base TX / 100/base-T CASSETTE/IMAGING PLATES: 14"x17", 14"x14", 10x12", 8x10" 2 Nos. each Dicom3 Capability for send, receive, archive, retrieve and print	
19	Color Doppler- Ultrasound	<p>Fully digital beamformer having 128 physical channels and 140,000 or more processing channels, color Doppler ultrasound system with 12 bit A/D conversion for abdominal, musk and peripheral vessels studies with integrated data management system having 500GB or more hard disk drive for still and cine clips storage 2D/m-mode Doppler PW, hrpf Doppler Color flow imaging System capability 2.5-14 mHz or more M-mode Tissue harmonic imaging Viewing depth: 30cm minimum Frame rate 500 or more Built-in cine loop 4000 frames or more Real time freeze & image magnification ability > 4 x Pre & post processing Sweep speed: slow, medium, fast Independent linear steering: 10-15 degrees for color and B/W System dynamic range: 280dB or more, 8.4 inches or more touch command screen for easy menu selection Doppler mode specifications Pulse repetition frequency range. Pwd: 0.5 to 10 kHz. Cwd (optional): 1.6 to 50 kHz Doppler beam steering Sample gate size: 1-15 mm steps On line 3-ports for transthoracic probes or more for imaging (all ports should have option) for PW and color Doppler Doppler beam steering and bi-directional stereo audio. Both CW & PW Doppler must be continuously Stearable in color blood flow imaging mode in real time Colorized spectrum display Tissue harmonic imaging with 3 harmonic frequencies. Specialt issue harmonic imaging technique to enhance effective wideband frequency range to provide simultaneously spatial resolution, contrast resolution and increased penetration using two transmission pulses at different frequencies simultaneously and reception at harmonic as well as differential component. 2D image with color flow Power Doppler Quad parallel color Doppler processing for simultaneously reception in 4 directions. Auto image optimization/quick scan for single button optimization of all scanning parameters including stcoverall gain and dopplerspectrum. sonot/compound/aplure imaging for both frequency compounding and spatial compounding in b/w and color Doppler Wide view/trapezoid imaging for linear probes. B-flow/dynamic flow imaging /e-flow for low flow velocity vessels. (quote as optional) Siescape/i scape/panoramic view imaging Adaptive suppression imaging / precision imaging to enhance b-mode imaging, detailed in layers and boundaries and sharpened outlines of the lesions and reduce cluttering. Top provide comprehensive software package for measurement of distance circumference, area, time, depth, angle, volume, joint, mean intetc. And separate software for obstetric and vascular measurement including (mean intimated ial thickness) Full 19-inch or more color monitor display area for diagnostic imaging (mean intimated ial thickness) Full 19-inch or more color monitor display area for diagnostic imaging</p> <p>Lcd/tft with resolution 1280x1024 pixels minimum (sxga). Flat screen non-</p>	<p>USA, Europe, Germany or Japan</p> <p>1</p> <p><i>Dr. Muhammad Ali Raqib</i> Director Institute of Medical Sciences Jacobabad</p>

	interlaced. Footswitch Minimum 3-ports for transducer. Liddis play to indicate the active probe-2-6 mhz multi-frequency convex probe for b/m/cdi/pw.- 5-11 mhz multi-frequency linear probe for b/m/cdi/pw. built-in cd/dvd recorder for digital image storage external 4 channel usb system to have native dicom compatibility b/w thermal printer.- must be supplied With online ups true sine wave system compatible with machine. auto nuchal translucency measurements. Machine should be upgradable to elastography and 4d endocavitory and 4d convex procedure system should also have provision of ecg signal unit. quoted as optional: 3-7 mhz multi-frequency 4d volume convex probe for 4d imaging, multi-frequency 4d volume endocavity probe for 4d imaging.		
Audiology Department			
20	Tympanometer	<p>Middle Air Analyzer With Thermal Printer Diagnostic middle air analyzer capable of performing fast and reliable automatic sequences of tympanometry and reflex threshold tests, decay tests, EFT tests and high frequency tympanometry. Extremely light, small and sturdy probe, which can be rapidly disassembled and cleaned. Connected to a control box from which you can select the ear and start exams. Probe tone: 226 Hz @ 85 dB SPL Stimulations: 250 (C) 500, 1k, 2k, 4k Hz. Acoustic tympanometry. Automatic test ISPI/CONTRA (up to 8 tests). Automatic sequences of tests. Software for patient management and examinations result, included. Compatible with NOAH software</p> <ul style="list-style-type: none"> Should have powered suction system - pump 70 lit/min Should have Ear wash syringe System complete with 2 litres tank with acoustic reserve warning signal. Microprocessor controlled heating element set at 37° C. Anti-sprinkles slide included. The tip is autoclavable Should have Mirror Warmer Should have Insufflator Should have Antimicrobial Filter Should have Suction Jar Re-usable Autoclavable inbuilt in the ENT Unit Should have ENT Patient Chair Electrical Operated Single Motor with rotation of 360° with locking pedal on the basement. Doctor stool with ring for footrest, gas elevation, steel structure, 360 degree pivoting wheels ENT Microscope Pole Support LCD ARM Support WITH PC Monitor For Endo-vision Archiving Software Endo- Vision Systems With Archiving Software Camera 1/3" CCD ("C" type) Endoscope Adaptor (28mm) ENT Unit should have endoscope support /holders for storage tubes for clean/dirty endoscopes (2 long for flexible 2- for rigid) ENT Unit should have head lamp support ENT Unit Should have LED LIGHT SOURCE with SINGLE LIGHT OUTLET 5.500° K 180 Lumen (50.000 hours life bulb) ENT Unit should be provided with wireless head light for sterile instruments complete with set of 4 metal trays for instruments Should have Waste bin compartment (below the drawers) 1 empty compartment with door (opening to the right) ENT UNIT FUNCTION / CONTROLS: ENT Treatment should have touch screen control with articulated arm rotation of 900° or better ENT unit should have below functions/ controls available through Touch Screen 	<p>USA, Europe, Germany or Japan</p> <p>1</p>
21	ENT Unit	<p>USA, Europe, Germany or Japan</p> <p>1</p> <p><i>Dr. Muhammad Ali Laghari</i> Director Institute of Medical Sciences Jacobabad</p>	

		<p>Tablet:• Should have wireless Control of the combined patient chair with 3-4 motors in all movements and memories• Should have Visualization of all active instruments when removed from their support (suction/insufflations/syringe)• Should have digital vacuum system control• Should have digital pressure control• Should have Memorisation of the mirror warming cycle from 10 to 120 sec• Visualisation should have control of the light intensity for LED source. • CHECK-UP and maintenance of main functions• Visualization of the User Manual• On/Off UV lamp of germicide compartment</p>		
<p>Dr. Muhammad Ali Taqatari Director Jacobabad Medical Sciences</p> <p>Jacobabad</p> <p>Dr. Muhammad Ali Taqatari Director BR equipments with all accessories</p> <p>Jacobabad</p> <p>Dr. Muhammad Ali Taqatari Director BR equipments with all accessories</p> <p>Jacobabad</p>		<p>ABR AND CLINICAL AUDITORY EVOKED POTENTIALS Medical Professional device that detects auditory evoked potentials, allowing to quickly obtain very accurate clinical diagnosis. Should have two independent channels, acoustic and visual alarms. Should allow the facial nerve monitoring (ENOG and BLINK REFLEX). Should have facility to run below tests: C-VEmps, O-VEmps; ABR; E-ABR for cochlear implants; EcochG even not invasive; MLR, LLR, 40Hz, R-C Alt, P300, MMN, ASSR (Auditory Steady State Response) Pre Amplifier Cable ER-3A Insert Headphones (3 boxes of inserts, small, medium and big included) 25 Electrodes for otoneurological examinations 60 Electrodes for C-Vemps. 1 DC Electrostimulator. 1 cable for EcochG. 1 TM-WICK for EcochG electrode non invasive. 6 cables SNAP-ON electrodes. 6 electrodes silver plate 1 jumper 1 tube (114g) for conductive paste Ten 201 tube (114g) for cleaning paste Nuprep 1 cable for E-ABR interface with software licensed DIAGNOSTIC AUDIOMETER Advanced diagnostic audiometer, capable of performing fast and accurate air, bone and speech audiometric exams, as well as several additional tests including a two-channel master hearing aid. Top level features combined with ease of use and portability make Harp the ideal choice for a wide range of users, from hearing aid dispensers to clinics and hospitals. Tonal Audiometry: manual and automatic Vocal Audiometry Internal memory for saving the vocal material Test ABLB, SISI, DLI, Tone Decay, Stenger, Master Hearing Aid Software for patient management and examinations result, included Compatible with NOAH software HIGH FREQUENCY KIT recommended for TESTs FROM 8.000 Hz TO 20.000 Hz + ABILITATION TO TINNITUS TEST. It includes Head phones</p>	USA, Europe, Germany or Japan	1
23	Sound proof booth	on Turnkey Basis, Visit & make specs 4x4 with complete accessories and installation	USA, Europe, Germany or Japan	1
	Diagnostic Lab			
24	Hematology Analyzer	<p>Fluorescent Flow Cytometry: WBC, Diff, RET, IRF, IPF, 2-part differential for body fluid analysis DC Sheath flow detection: PLT-I (Impedance) RBC, HCT Cyanide-free SLS-Hemoglobin method: HGB 33 standard Parameters Whole blood/Pre-dilution/Low WBC mode WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT-I, RDW-CV, PDW, MPV, P-LCR, PCT, NEUT#, LYMPH#, MONO#, EO#, BASO#, NEUT%, LYMPH%, MONO%, EO%, BASO%, IG#, IG% Body Fluid Mode WBC-BF, RBC-BF, MN#, PMN#, MN%, PMN%, TC-BF#10 Optional Parameters RET#, RET%, IRF, LFR, MFR, HFR, RET-He, PLT-O, IPE#, IPF Throughput CBC: up</p>	USA, Europe, Germany or Japan	1

		to 70 samples /hourCBC + DIFF: up to 70 samples /hourCBC+DIFF+RET: up to 35 samples /hourBody fluid mode: up to 30 samples /hourSample Aspiration VolumeWhole blood/Low WBC mode: 25ulPre-dilution mode: 70ulBody fluid mode: 70ulData StorageResult 100,000 samplesPatient information: 10,000 recordsQC files: 99 files/analyzerReagent replacement history: 5,000 recordsMaintenance History: 5,000 records QC Material Tri-Level QC Material for all parametersBi-Level Body fluid QC MaterialsUnique ModeLow WBC Modelimited <0.1,Accurate differential should be possible even in marked leukopenic sample.Dimensions and weight Width: 450mm, Depth: 660mm, Height: 450mm Approx. 53Kg.		
25	Hemoglobin Meter	Measurement range: 6-18g/dL Precision: 1g/dL (standard deviation) Resolution: 0.1 d/dLPulse Rate (PR): Range: 30-240 bPm Accuracy: 3bPmMode of operation Spot checkingData management Data logger with real time and date. The measured Hb values are automatically stored. Multilingual data interface.Sensor emitted light LED LED wavelength range: 600-940 nm Average radiated power: s1 mw. Result time < 60 second Adjustable pipettes. Robust body construction. precisely calibrated. Corrosion free ceramic construction piston. Tip holder & ejector fully autoclave able. Measuring capacity of the following sizes. Fix ranges 10 UL, 20 UL, 50 UL, 100 UL, 200 UL, 500 UL, 1000 UL Autoclave able, Easily calibration, Disposable tip 4000 each.	USA, Europe, Germany or Japan	2
	Micropipette Fix Single Channel	Corrosion free ceramic construction piston. Tip holder & ejector fully autoclave able. Measuring capacity of the following sizes. Fix ranges 10 UL, 20 UL, 50 UL, 100 UL, 200 UL, 500 UL, 1000 UL Autoclave able, Easily calibration, Disposable tip 4000 each.	USA, Europe, Germany or Japan	7
27	Immuno Assay System	Timeless system Values • Single-dose, ready-to-use reagents • All inclusive reagent kits, • Multiparametric assay combination facility. • 30 test at a time and individual section working. • System robustness (> 700 days) • Calibration <30 days • Automated barcode identification • Just Load and GoFlexibility, where and when you need it : • System must be multi parametric test sections • Processing of different parameters simultaneously • Large routine menu (>90 parameters in Immunochemistry and Infectious Diseases) • Packaging suited to different test volumes (30 or 60 tests) Quality • No cross-contamination • All calibrator and controls must be included in the kit. • Random Access system	USA, Europe, Germany or Japan	2
28	Electrolyte Analyzer	Parameters: Na, K+, Cl-, TCO2, Li, Anion Gap Sample volume: 220 µL – 100 µL – 50 µL Start turn around time: 52 seconds Samples: 69/hour	USA, Europe, Germany or Japan	1

Dr. Muhammad Ali Iqbal
Director
Taj Mahal Institute of Medical Sciences
JACOBABAD

<p>Tests: 345/hour</p> <ul style="list-style-type: none"> Acceptable samples: Serum, Plasma, Urine, CSF Self-calibration and always ready to perform stats with the touch of a single button. Direct sampling from vacuum tubes, sample cups, syringes and capillaries Optional bar-code reader for fast. Bi-directional interface Single pack reagent management system (RMS) No daily maintenance is required A single reagent pack simplifies reagent replacement. Collection and storage of up to three levels of QC Automatic flagging for out of range QC values User-selectable QC standard deviation ranges. Na⁺, K⁺, Cl⁻, Li, and Reference sensors are maintenance free. A sealed waste system within the reagent pack eliminates emptying and cleaning of a waste container. <p>40 Column internal printer.</p>		
<p>System Type Open Random Access System, STAT samples System through put 200 photometric test /hour 360 tests/hour with ISE Sample type Plasma, serum ,urine, CSFMeasurement item Max 45 Photometric tests + 4 ISEAssay method End-point, kinetic ,ISE (Direct potentiometry)Calibration Type Linear, Exponential , Polynomial, factor cubic spline, logit-Log 4P, Logit-Log 4POptical System Halogen Lamp,8 Filter:340,405,505,546,578,600,660,700 nmReagent Tray 50 refrigerated positions (8-12 °C)5 ,20,50 ml reagent containerSample Tray 39 PositionsOuter Ring – 30 position for samplesInner Ring – 9 positions for blanks, standards, calibrators,Control and ISE solutionsReagent DispensingOne Dispensing probe with liquid-Level SensorDispensed Volumes: R1 150-300ul Adjustable in 1 ul step-R2 10-200 ul- Adjustable in 1 ul stepMinimum Reagent Volume180 ulReaction Tray45 reusable hard glass cuvettes, optical path length 5 mmMixing SystemIndependent stirrer QCLEVEY- Jennings chart, west gard rulesBarcode ReaderBuilt-In barcode reader for samples & ReagentsWater ConsumptionMaximum 6 liters/ hourPC RequirementOperating system : MS window Xp Or MS Windows 7Measurement Monitoring Color indication of sample analysisMonitoring the reaction in real timeReagent volume monitoring Informative reports on ongoing analyzer status Soft wareConnection to LIS Statical methods of processing resultData export in selected format Dimension Weight810mm x800mm x 1160mm (w*D*H), < 150 KgPower Supply 220 V ± 10% 50 Hz ±5 % 600VA</p>	<p>USA, Europe, Germany or Japan</p>	
<p>29</p> <p>Automated Chemistry Analyser</p>	<p>Blood Bank</p>	<p>Speed range rpm: 300 – 10,000, adjustable in 10 rpm incrementsMax. RCF: 15,317 gMax. capacity: 8 x 500 ml blood bags or 4 x 1,000 ml or 4 x 8 standard microplatesDrive:</p>
<p>30</p> <p>Cryofuge Automated</p>	<p>USA, Europe, Germany or Japan</p>	<p>1</p>

	Refrigerated Centrifuge	brushless induction driveAccel./decel.: profiles 9/9Program memory 9 + 1 pretemp programRun time: 0 – 99 min, plus holdTemperature range: -9 to +40 °C, CFC-free refrigerantControl microprocessor: controlled via EASYcontrol™ IIFunctions: RCF-preselection, Quick-run, automatic rotor recognition, imbalance detection and Soft-Touch lid-lockImbalance: electronic, speed and rotor dependentTest standards: Designed and tested in accordance with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1		
31	Platelet Incubator	<p>Features & Specifications:</p> <p>Base Material : Galvannealed Steel Bacteria – Resistant Powder Coating</p> <p>Dimension : 18.00"W x 15.25"H x 14.50"D (46cm x 39cm x 37cm)</p> <p>Max. Storage Capacity : 48 Random Bags (16 Aphaeresis Bags)</p> <p>Drawers : Texture Coated, Perforated, Non-Slip Drawers (7 pull-out, 1 Stationery)</p> <p>Incubator Compatibility : PC 900i, PC 900h</p> <p>Motion Alarm : Yes</p> <p>Electrical : 115V 60 Hz 0.4 FLA / 230V 50/60 Hz 0.2 FLA</p> <p>Net weight : 51 lb / 23 kg</p>	USA, Europe, Germany or Japan	1
32	Platelet Agitator	<p>Specifications:Door : Single-Pane Tempered Glass DoorInterior Material : Galvannealed Steel with Bacteria-Resistant Powder CoatingInterior Dimension : 22.25"W x 15.75"H x 17.75"D57 cm x 41 cm x 46 cmExterior Dimension : 26.00"W x 30.25"H x 25.25"D66 cm x 77 cm x 65 cm Agitator Compatibility : PF48i or PF48hRefrigeration (115V) : 1.3 HP Air-Cooled, R134A Non-CFC (230V) : 0.5 HP Air-Cooled, R134A Non-CFCElectrical: 115V 60Hz 9 FLA230V 50/60Hz 4.5 FLANet Weight : 159 lb / 72 kg</p> <p>is the new generation scale/mixer. It is made for stationary and mobile useGentle mixing and control of collection time gives high quality blood (platelets)Automatic counterbalancing at start of procedureManual or automatic working tube clampSuitable for all blood bags on the marketMeasures gross or net volume with the best accuracy of <1%Automatic check on blood flow and collection time with buzzer alarm Continuous display of collected volume, flow and time during collectionPreset standard volume – easy to change Adjustable limits for lo and high flow and time alarm • Repetitive notification of completed collection every minute including gentle mixing to avoid coagulation Technical Data Max Volume: (collected blood) 999 ml. Accuracy: <1% of max weight. Taring range: 0-600g Mixing cycle: 16 cycles/min Dimensions: 290(L) x 253(W) x 150(H) mm Weight: 4,8 kg incl. battery</p>	USA, Europe, Germany or Japan	1
33	Blood Collection Mixer with tube clamp		USA, Europe, Germany or Japan	1
34	Tube Sealer	<p>SpecificationsWorkload High volumeSealing Head Configuration Fixed sealing headPower Type A/CPower Source 110-240 V 50/60 HzMax Tubing Diameter 6mm (1/4")Dimensions Main Unit Inches 6.9W x 6.1H x 13D mm 176W x 156H x 331D Hand Held Sealing Unit Inches N/A mm Weight Unit lbs 11.0 lbs Kg 5.0 KgSealing</p>	USA, Europe, Germany or Japan	1

		<p>Gun lbs N/A Kg SpecificationsWorkload High volumeSealing Head Configuration Fixed sealing headPower Type A/C Power Source 110-240 V 50/60 HzMax Tubing Diameter 6mm (1/4")DimensionsMain Unit Inches 6.9W x 6.1H x 13D mm 176W x 156H x 331D Hand Held Sealing Unit Inches N/A mm Weight Unit lbs 11.0 lbs Kg 5.0 KgSealing Gun lbs N/A Kg</p> <p>Description: The Plasma Extractor is used to express blood components from collection containers. The spring-loaded front panel exerts pressure on the collection container causing the fluid transfer until container is clamped off or emptied.</p> <p>Benefits Features Durable and reliable Sturdy construction Portable Light weight Easy to use Simple design Specifications Size : 10"L x 6.5"W x 10"H Weight : 5.6 pounds</p>	USA, Europe, Germany or Japan	2
35	<p>Plasma Extractor with Sensor</p> <p>Dr. Muhammad Ali Taqatari Director Jacobabad Institute of Medical Sciences</p> <p>Adjustable Single Channel Micropipette</p> <p><i>[Signature]</i></p> <p>Ultra Low Freezer -70 C</p>	<p>Micropipette Adjustable Single ChannelMicropipette Adjustable Single ChannelAdjustable pipettes.Robust body construction.precisely calibrated.Corrosion free ceramic construction piston.Tip holder & ejector fully autoclave able.Measuring capacity of the following sizes.Adjustable range of Adjustable range of Adjustable range Adjustable range of 10-100ul Adjustable range of 100-1000ul Adjustable range of 1-1.5 ml Disposable tip 4000 each.</p> <p>Features Temperature Range -60 / -86 °C Capacity 360 lt (12,72 cu ft) External Dimensions (W x D x H) cm 75,5 x 89 x 199,2 Structure and Insulation: stainless steel 18/10 AISI 304 inside and sanitized pre-coated steel white colour- outside; insulation polyurethane thickness 130 mm DoorNr 1 blind door pre-coated steel white colour + nr.2 hinged inner-doors Key Lock Rollers Castors with brakes Internal equipment nr.3 shelves Controller Digital electronic thermostat Alarms :Acoustic and Visual for door open, temperature deviations, failures and power failure. The alarm system is fed by an automatic recharging battery Data and Event recording: last 180 days, with download from USB port (software included) Connectivity: USB port; Dry Contact; Ethernet port RJ45 Pass through port mm 25</p>	USA, Europe, Germany or Japan	1
37				3

Urology			
38	Cytoscope Sheath with bridge	<p>1-Cystoscope-Urethroscope-Sheath, 21Fr/ 22 Fr., with obturator and 2 LUER-Lock adaptors.</p> <p>2-Telescope Bridge with 2 lockable instrument channels</p> <p>3-Catheter Deflecting Mechanism, with 2 instrument channels, with ratchet</p> <p>4-Grasping Forceps for removal of foreign bodies, 7/5 Fr. double action jaws, flexible.</p> <p>5-Biopsy Forceps, 7/5 Fr., double action jaws, flexible.</p> <p>6-Coagulating Electrode, 4/6 Fr., unipolar,.</p> <p>7- High Frequency Cord.</p>	<p>USA, Europe, Germany or Japan</p> <p>1</p>
	<p>Dr. Muhammad Ali Tahir Director Jacobabad Institute of Medical Sciences Jacobabad</p> <p>38 Dec 2019</p>	<p>1-Working Element Motion by means of a finger grip(active resection). In rest position the electrode is outside the sheath.</p> <p>2-Resectoscope Sheath, including connecting tubes for in- and outflow (continuous irrigation), 26 Fr., oblique beak, rotatable working element with ceramic insulation.</p> <p>3- Standard-Obturator for use with sheaths 24/26 Fr.,</p> <p>4- ELLIK Evacuator</p> <p>5- Cutting Loops.</p> <p>6-Unipolar High Frequency Cord, with 4 mm plug, length 300 cm, tray (same manufacturer)</p> <p>Telescope 30deg 4mm</p> <p>Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated</p>	<p>USA, Europe, Germany or Japan</p> <p>1</p>
40	Optical internal urethrotom sheath with complete set	<p>1-SACHSE, Urethrotome Sheath, 19.5/ 21 Fr.2 LUER-lock adaptors with guide wire placement port.</p> <p>2-Obturator, for urethrotome sheath,</p> <p>3- Supplementary Sheath, half-round, to insert a balloon catheter, to slip on urethrotome sheath</p> <p>4-Working Element (also for use with optical Urethrotome) Motion by means of a spring.</p> <p>5- Cold Knife straight, not to be used with HF current tray (same manufacturer)</p>	<p>USA, Europe, Germany or Japan</p> <p>1</p>
41	CCD HD CAMERA SYSTEM COMPLETE SET	<p>1-HD module, for use with up to 3 link modules, resolution 1920 x 1080 pixels, with integrated and digital Image Processing Module,</p> <p>power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz,</p> <p>Consisting of:</p> <p>Mains Cord, length 300 cm</p>	<p>USA, Europe, Germany or Japan</p> <p>1</p>

<p>Dr. Muhammad Ali Laghari Director Jacobabad Institute of Medical Sciences Jacobabad</p> <p><i>[Signature]</i> DISTRICT POPULATION JACOBABAD</p>	<p>DVI-D Connecting Cable, length 300 cm Connecting Cable, length 100 cm USB Flash Drive, 32 GB USB Silicone Keyboard, with touchpad, US 2-HD module, for use with FULL HD camera heads, power supply 100 - 120 VAC/200 - 240 VAC, 50/60 Hz, Consisting of: Mains Cord, length 300 cm Link Cable, length 20 cm 3-Three-Chip FULL HD Camera Head, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length f = 15 - 31 mm (2x), 2 freely programmable camera head buttons 4-LED 175 Watt light source high-performance LED and one light outlet, power supply 110 - 240 VAC, 50/60 Hz Including: Mains Cord Connecting Cable 5-Fiber Optic Light Cable, with straight connector, extremely heat-resistant, enhanced light transmission, diameter 4.8 mm, length 250 cm 6-21" FULL HD Monitor, color systems PAL/NTSC, 7- Endoscopic Video Cart Imported Quality local made</p>		
<p>42</p> <p>Cystolitholapaxy Sheath + Punch</p>	<p>1-Punch-Working Element 2-Punch Sheath, including connecting tubes for in- and outflow, 25/26 Fr., straight beak, with obturator (preferably visual obturator)</p>	<p>USA, Europe, Germany or Japan</p>	<p>1</p>
<p>43</p> <p>URS Adult</p>	<p>1-Uretero-Renoscope, 8 Fr at distal tip., 6/12° angle view. autoclavable, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel max 5 Fr/6Fr., for use with inst up to 4/5 Fr. Following accessories are included: Insertion Aid Instrument Port with Sealing System and Quick Release Lock LUER-Lock Tube Connector LUER-Lock Tube Connector</p>	<p>USA, Europe, Germany or Japan</p>	<p>1</p>

Dr. Muhammad Ali Laghari
Dr. Muhammad Ali Laghari
 Director
 Jacobabad Institute of Medical Sciences
 Jacobabad

[Signature]
DISTRICT POPULATION MEDICAL OFFICER
 JACOBABAD

	Flow Control Stopcock Wire Tray 2-Grasping Forceps for stone fragments, double action jaws, 4 Fr/5Fr., rigid, length 60 cm. 3- Biopsy Forceps, rigid, double action jaws, 4 Fr/5Fr., length 60 cm.		
44	Pneumatic Lithoclast <u>including</u> Pn3 Pneumatic Handpiece kit 1 Electrical foot pedal 1 Power supply cable 1 Compressed air supply tube 1 Set of connectors for exhaust 1 Spare fuses 2 Swiss LithoClast® Probes LithoClast® Probe Ø 2.0 x 425 mm 1 LithoClast® Probe Ø 1.0 x 605 mm 1 LithoClast® Probe Ø 0.8 x 605 mm 1 LithoClast® Probe Ø 1.6 x 605 mm 1	USA, Europe, Germany or Japan	1
45	Dermatology Electric Cautry With All Accessories Complete set with all standard accessories	USA, Europe, Germany or Japan	1
46	Cryotherapy • Slender, fingertip trigger for maximum control and ease of viewing – also rotates easily for left-hand users. • Patented Safety Autovent maximizes safety by allowing internal pressure to gradually vent as the cap is unscrewed. • Streamlined relief valve maintains a constant operating pressure to ensure consistent and accurate freezing. • Polypropylene Cover and Collar insulates the user's hand. • Stainless steel and brass construction for long life Sturdy Delrin base for extra stability • Sturdy Polypropylene base for extra stability *A set of 4 Apertures (A, B, C & D), a 1" x 20g Straight Spray and a 3" x 20g Bent Spray are included with each for more accurate, controlled treatment of lesions of different sizes and types. Hieghat 11.25in (286mm) Weight < 1kg Static holding time 20 – 24 hours with all standard accessories (complete set)	USA, Europe, Germany or Japan	1
47	Supply & Installation of 200 KVA Diesel Generator 200KVA Diesel Generator 200KVA Prime / 220KVA Standby Diesel Engine Alternator Digital Control Module	USA, Europe, UK or Japan	1

Dr. Muhammad Ali Laghari
Director
Jacobabad Institute of Medical Sciences
Jacobabad

[Signature]
DISTRICT POPULATION MEDICAL OFFICE
JACOBABAD

		<p>400 V, 3 Phase+N, 0.8 P.F 50 Hz, 1500 RPM Water cooled Radiator 50 °C Tropically designed Industrial muffler (Supplied Loose) Exhaust Flexible (Supplied Loose) Base Fuel Tank (Sufficient for 8 Hours Capacity) Engine Sump oil drain tap & Coolant Drain Tap Self excited Alternator IP 23 Protection alternator class H insulation Emergency Push button Set mounted lead acid batteries Earth Leads Sound and Weather Proof Canopy with following specifications: Fabricated from Hot Rolled AISI 1010 Steel, 12/14 SWG. Modular Design for ease of maintenance. Imported accessories including stainless steel hinges, die cast hinges, galvanized fasteners (class 8.8), etc. Acoustic, high density, open cellular, fire proof foam. Standard cable access window. Standard control panel viewing window.</p>		
48	Split Air conditioner 1.5 ton	Complete set with all standard accessories	Branded Japan, UK or Korea	30
49	Split Air conditioner 2 ton	Complete set with all standard accessories	Branded Japan, UK or Korea	6
50	Split Air conditioner 4 ton for stores	Complete set with all standard accessories	Branded Japan, UK or Korea	6