SINDH INSTITUTE OF UROLOGY AND TRANSPLANTATION (SIUT) KARACHI, SINDH

"SUPPLY OF MACHINES & EQUIPMENT FOR CARDIOLOGY SECTION OF MARIYAM BASHEER DAWOOD CHILDREN & CARDIAC HOSPITAL - SIUT"

TENDER NO. 501

DUE ON 26-2-2025 AT 02:00 PM

Single Stage - Two Envelope Bidding Procedure

IMPORTANT DATES

Issuance of Tender Documents	**06.02.2025 to 25.2.2025**
Submission of Tender	**26.02.2025 at 11:00 am**
Opening of Tender	**26.02.2025 at 11:30 am**

TENDER NOTICE
(INVITATION FOR BIDS)

1) Sealed bids are invited from eligible bidders for **"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."**

2) SIUT, Karachi, Sindh invites bids on DDP / C&F basis from Bidders registered with FB R for Income Tax, Sales Tax and with SRB for Provincial Sales Tax (if applicable) and active on FBR "Active Taxpayers List" as required by Sindh Public Procurement Rules, 2010 (SPP Rules, 2010).

Tender No.	501
Name of Bid	**"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."**
Bidding Procedure	Single Stage Two Envelope (Technical & Financial)
Bid Security	1% of the total bid value
Bid Validity	90 days
Tender Fee	Rs 3,000/- (non-refundable)
Issuance of Tender Documents	**06.02.2025 to 25.2.2025**
Submission of Tender	**26.02.2025 at 11:00 am**
Opening of Tender	**26.02.2025 at 11:30 am**

3) Tender is open in front of the all Suppliers/Manufacturers/Authorized representative/Distributors.

4) Complete set of tender documents containing Schedule of Requirements, Technical Specification with Terms & Conditions can be purchased with a non-refundable fee of Rs. 3,000/- from the office of the Director SIUT, Ground Floor DFMC, Section CRS, Karachi during 2:00pm to 4:00 pm on working days from 06.02-2025 to 25.02.2025.

5) All required certificates / documents along with GST / NTN Certificate, Professional Tax Certificate etc. must be attached along with Technical information.

6) Bid shall include all applicable duties, taxes, levies and contribution imposed by Federal and Provincial Government or other body etc.

7) The bidder must enclose an affidavit on stamp paper of Rs. 100/- that the bidder has not been blacklisted from any Government Department. If at any stage bidder found blacklisted the bid shall be rejected.

8) Procurement agency may reject all or any Bid subject to the relevant provision of (SPP Rules, 2010) all terms & condition of SPP Rules, 2010 shall be applicable.

9) Deduction in the bills will be done as per government rules.

10) Bid Security @ 1% of the total bid value of quoted items must be paid by the bidder in shape of pay order / demand draft / Bank Guarantee in favor of Director of SIUT Karachi (original instrument should be attached with financial Bid).

11) In case of discrepancies between the Tender Notice and the Tender Documents, the Tender Documents shall take precedence.

12) Bids must be submitted at 5th Floor, DFMC at Pre-Function Area up to11*:00 a.m. on February 26, 2025 (Wednesday).* All bids must be accompanied by a bid security / earnest Money @ 1% of the total bid cost in shape of Pay Order/Demand Draft/ Bank Guarantee. Bids will be opened in the

presence of the bidder's authorized representatives who choose to attend at the above address at11*:30 am.* late bids will be rejected.

13) In case of announcement of public holiday or any un-favorable circumstances, the bids shall be submitted and opened as per given schedule on the next working day.

14) Queries can be addressed at the following numbers or in person during office hours.

Tel: 021-99216977
Tel: 021-99215718/52

- sd -
OFFICE OF THE DIRECTOR
OF SIUT, KARACHI, SINDH

INSTRUCTIONS TO BIDDERS (ITB)

1) This Invitation for Bids is open to all Suppliers/Manufacturers/Authorized representative / Distributors and in case of imported goods, their Sole Agents / Importer in Pakistan, for **"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."**

2) The importers must possess a valid authorization from the Foreign Principal / Manufacturer and goods sale license issued by the competent authority in Pakistan and in case of manufacturer they should have a documentary proof of valid goods manufacturing license. All national firms duly registered with relevant tax and other authorities as required under the Federal and/or Sindh Government's laws, statutes, rules and relevant instructions (consistent with Sindh Public Procurement Rules (SPP Rules, 2010), and instructions contained in this document.)

3) Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued in accordance with Rule 2 (q) of Public Procurement Rules 2010 and or blacklisted by any other procuring agency in the country.

4) The list of goods required, bidding procedures, and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:

   a) Instructions to Bidders (ITB)
   b) General Conditions of Contract (GCC)
   c) Special Conditions of Contract (SCC)
   d) Bid Data Sheet
   e) Schedule of Requirements, Delivery & Price.
   f) Specifications
   g) Bid Form
   h) Bid Security Form
   i) Form of Bank Guarantee
   j) Contract Form
   k) Performance Security Form
   l) Undertaking and Certificate
   m) All Documents in "Documents' Checklist"
   n) Bid Evaluation Criteria
   o) Any other document deemed necessary by procuring agency

5) Price should be quoted in figures & words both.

6) The bid prepared by the Bidder must comprise all the required documents mentioned in **"Documents' Check-list [Form K]"** and **"Bid Evaluation Criteria [Form J]"**. **The Bid must also include soft copies as mentioned in "Documents' Checklist" [Form K]; otherwise Bid will be ignored.**

7) The prices quoted by the Bidders shall be fixed during the performance of the contract and shall not be subject to variation on any account. A bid submitted with an adjustable price or conditional will be treated as non-responsive and rejected.

8) The Bidder shall prepare bid comprising one single envelope containing two separate envelopes for financial proposal and technical proposal in original. The envelope shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion. The financial and technical bids, each shall be consisting of the specified documents.

In Technical Proposal, the bidder must provide the original data sheet and Technical brochure, Income Tax NTN Certificate, Sales Tax Certificate, Agency certificate and other documents wherever applicable as mentioned in this tender in "Documents' checklist" and "Bid Evaluation Criteria"; otherwise the bid will be ignored. **Soft copy of Technical Bid/Proposal is mandatory and must be given in separate USB mandatorily on the format given.**

In Financial Proposal, the bidder should provide all financial information along with bid security/earnest money at the rate of 1% of the quoted value. A photocopy of the same should be attached with Technical Proposal but its value must not be disclosed and this can be achieved by placing a piece of paper on the place where amount is mentioned. **Soft copy of Financial Bid/Proposal is mandatory and must be given in separate USB mandatorily on the format given.**

9) Bidders shall quote rates on Delivered Duty Paid, and/or CFR/C&F.

10) In case Purchase order is issued for imports, the supplier / beneficiary will be entitled / eligible to claim payment of the purchase order amount upon submission of shipping documents.

11) In case of imports, following charges will be borne by the beneficiary (Supplier).

- All charges outside Pakistan.
- Confirmation Charges.
- Amendment charges after establishing L/C.
- Demurrage charges if shipment documents submitted late by supplier.

12) In case of Purchase order issued on DDP basis, the suppliers will be entitled / eligible to claim payment of the purchase order amount after delivery of goods by submission of original delivery challan, other related documents and inspection note.

13) All the applicable Federal and Provincial Government taxes on the value of the contract amount will be deducted from the bills of the Suppliers.

14) Successful Bidders shall have to pay Stamp duty @ 25 paisa per hundred rupees on items & 0.35% on services of the contract and affix the same on the Purchase Order/Contract Agreement. The Stamp (Sindh Amendment) Ordinance No: XVIII of 2002 refers). Fee for award of contracts: The service charges at the rate of 0.25% will be paid by the contractor on the amount of contract awarded as required under rule 83-A (1) of the Sindh Purchase Manual 1991.

15) The Procuring Agency will initially open only the envelopes marked "Technical Proposal" in the presence of Bidders or their representatives who chose to be present at the time of bid opening date, time and place specified in the tender documents. The Bidder or their representative who are present shall sign the attendance sheet. The envelope marked with "Financial Proposal" shall be retained in the custody of Procuring Agency without being opened till the completion of the Technical Evaluation.

16) A photocopy of Bid Security not specifying amount must be attached in technical proposal.

17) Bid evaluation will be performed by Technical Committee on the basis of Technical information submitted by the Bidder and verified from samples provided with the Bid. Product that comply with the advertised specifications and fulfill the requirement as per labelling will be considered for evaluation. Financial bids of technical qualified firms will be opened afterwards.

18) An interested bidder, who has obtained bidding documents, may request for clarification of contents of the bidding document in writing, and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar

days prior to the date of opening of bid; Provided further that any clarification in response to a query by any bidder shall be communicated to all parties who have obtained bidding documents without disclosing the name of bidder who has raised the query.

19) At any time prior to the deadline for submission of bids, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, may modify the bidding documents by amendment. All prospective bidders that have received the bidding documents shall be notified of the amendment in writing or by phone, and shall be binding on them. In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of bids.

20) The bidder is required to offer competitive price. All prices must not include the General Sales Tax (GST) as Procuring Agency is exempt for Sales Tax under Sales Tax Act, 1990 whereas other taxes and duties should be included where applicable. If there is no mention of taxes, the offered / quoted price shall be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes shall be passed on to the Procuring Agency.

21) Prices offered should be for the entire quantity demanded; partial quantity offers shall straightaway be rejected. Conditional offer shall also be considered as non-responsive bid.

22) While tendering your quotation, the present trend / inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services or any other reason whatsoever, shall be entertained.

23) Pursuant to Rule 89 of (SPP Rules, 2010), the bidder shall sign an Integrity Pact in accordance with prescribed format attached hereto.

24) All pages of the bid, except for un- amended printed literature, shall be initialed by the person or persons signing the bid.

25) The bid shall contain no alterations, omissions, or additions, unless such corrections are initialed by the person or persons signing the bid.

26) Incomplete, inaccurate, conditional and late bids shall not be accepted.

27) Bids shall be submitted either by the manufacturer or its sole agent, if submitted by the manufacturer itself then bid of authorized sole agent will be rejected. No sublet will be allowed.

28) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the Bidder does not accept the correction of errors, its bid will be rejected.

29) The Procuring Agency reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules, 2010, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Procuring Agency's action.

30) The Procuring Agency reserves the right to increase/decrease or delete the quantities of goods etc. at the time of award of contract and also reserves the right to increase/ decrease the quantity of goods and services originally specified in the contract without any change in

unit price or other terms and conditions of goods at any time during the contract period as per SPP Rules, 2010

31) Prior to the expiration of the period of bid validity, the Procuring Agency will notify the successful Bidder through Advance acceptance. This will constitute the formation of the contract. Within seven (07) days after receipt of the Advance acceptance, the successful Bidder shall furnish the performance security @ 5% of the contracted amount in the form of Demand Draft/Pay Order/ Bank Guarantee and sign the contract agreement. In case of any full/partial breach of the successful bidder the security will be utilized as per SPP Rules, 2010

32) Bid validity can be extended as per SPP Rules, 2010.

33) No bidder shall be allowed to alter or modify his bid after the bids have been opened. However the procuring agency may seek and accept clarifications to the bid that do not change the substance of the bid.

34) Distributor once nominated by the manufacturer will be for the whole contract period and manufacturer cannot change its distributor during the year in any case. In exceptional cases the tendering authority may approve changes.

35) The manufacturer should provide an undertaking that if his authorized / distributor / agent fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.

36) The Procuring Agency, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, may terminate the contract in whole or in part and can take action under rule 35 of (SPP Rules, 2010)

(a) If the supplier fails to deliver any or all of the contracted items within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency.

(b) If the Supplier fails to perform any other obligation(s) under the Contract.

(c) If the supplier, in the judgment of the Procuring Agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

37) Any queries regarding this tender should be sent to the purchase@siut.org. Please mention **"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."**

GENERAL CONDITIONS OF CONTRACT

1. Definitions

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

(a) **"The Contract"** means the agreement entered into between the Procuring agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) **"The Contract Price"** means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.

(c) **"The Goods"** means all of the Goods, equipment, machinery, and/or other materials, which the Supplier is required to supply to the Procuring agency under the Contract.

(d) **"The Services"** means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.

(e) **"GCC"** means the General Conditions of Contract contained in this section.

(f) **"SCC"** means the Special Conditions of Contract.

(g) **"The Procuring Agency"** means

i. Any department or office of Government; or
ii. District Government; or
iii. Any authority, corporation, body or organization established by law or which is owned or controlled by the Government

(h) **"The Supplier"** means the individual or firm supplying the Goods and Services under this Contract.

(i) **"SPP Rules, 2010"** means the Sindh Public Procurement Rules, 2010 (Amended 2019).

(j) **"Day"** means calendar day.

2. Standards

The Goods & Equipment supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

3. Patent Rights

The Supplier shall indemnify the Procuring Agency against all third- party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods & Equipment or any part thereof in the Islamic Republic of Pakistan.

4. Performance Security

4.1 Within seven (07) days, or any other duration as specified in SCC, of receipt of the notification of Contract Award, the successful Bidder shall furnish to the Procuring Agency the Performance Security in the amount specified in SCC.

4.2 The proceeds of the Performance Security shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

4.3 The performance security shall be denominated in the Pak Rupees and shall be an unconditional Bank Guarantee, Pay Order, Call Deposit as, provided in the bidding

documents or another form acceptable to the Procuring Agency;

4.4 The performance security will be discharged by the Procuring Agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

5 Inspections and Tests

5.1 The Procuring Agency or its representative shall have the right to inspect and/or to test the Equipment to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

5.2 Should any inspected or tested Equipment fail to conform to the Specifications, the Procuring Agency may reject the Equipment, and the Supplier shall either replace the rejected Equipment or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.

5.4 The Procuring Agency's right to inspect, test and, where necessary, reject the Equipment after the Equipment' arrival shall in no way be limited or waived by reason of the Equipment having previously been inspected, tested, and passed by the Manufacturer.

5.5 Nothing in GCC Clause 5 shall in any way release the Supplier from any warranty or other obligations under this Contract.

6. Packing

The Supplier shall provide such packing of the Equipment as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage.

7. Delivery and Documents

Delivery of the Equipment shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping / transportation and/or other documents to be furnished by the Supplier are specified in SCC.

8. Insurance

The Equipment supplied under the Contract shall be delivered consignee's end under which risk is transferred to the Procuring Agency after having been delivered; hence insurance coverage is Supplier's responsibility.

9 Transportation

The Supplier is required under the Contact to transport the Equipment to a specified place of destination and shall be arranged by the Supplier, and related costs shall be deemed to have been included in the Contract Price.

10 Incidental Services

10.1 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

(a) performance or supervision of on-site assembly and/or start-up of the supplied Equipment;

(b) Furnishing of tools required for assembly and/or maintenance of the supplied Equipment.

(c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Equipment;

(d) Performance or supervision or maintenance and/or repair of the supplied Equipment, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract.

11. Spare Parts

11.1 The Supplier should provide any or all of the notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

(a) such spare parts as the Procuring agency may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under the Contract; and

(b) in the event of termination of production of the spare parts:

(i) advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and

(ii) Following such termination, furnishing at no cost to the Procuring agency, the blueprints, drawings, and specifications of the spare parts, if requested.

12. Warranty

12.1 The Supplier warrants that the Equipment supplied under the Contract are new, unused, of desired models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Equipment supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Equipment in the conditions prevailing in the country of final destination.

12.2 This warranty shall remain valid as per BOQ (03 Years with parts and service wherever applicable) after the Equipment, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract.

12.3 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract.

13. Payment

13.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

13.2 The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and upon fulfillment of other obligations stipulated in the Contract.

13.3 Payments shall be made promptly by the Procuring Agency, but in no case later than forty five (45) days after submission of an invoice or claim by the Supplier.

13.4 The currency of payment is Pak. Rupees or on basis of F.O.R/CFR.

14. Prices

Prices charged by the Supplier for Equipment delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

15. Contract Amendments

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

16. Delays in the Supplier's Performance

16.1 Delivery of the Equipment and Performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements.

16.2 If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Equipment and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation

and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

16.3 Except as provided under GCC Clause 17 a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages unless an extension of time is agreed upon pursuant to GCC Clause 16.2 without the application of liquidated damages.

17. Liquidated Damages

Subject to GCC Clause 20, if the Supplier fails to deliver any or all of the Equipment or to perform the Services within the period(s) specified in the Contract, the Procuring agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Equipment or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 18.

18. Termination for Default

18.1 The Procuring agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

(a) if the Supplier fails to deliver any or all of the equipment within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 16; or

(b) if the Supplier fails to perform any other obligation(s) under the Contract.

(c) if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

19. Force Majeure

19.1 Notwithstanding the provisions of GCC Clauses 16, 17 and 18, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

19.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

19.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

20. Resolution of Disputes

Resolution of dispute shall be through Mechanism for Redressal of Grievances as provided in the rules or through Arbitration Act, 1940.

21. Governing Language

The Contract shall be written in English language all correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

22. Applicable Law

The Contract shall be interpreted in accordance with the applicable laws of Pakistan and SPP Rules, 2010, (Amended 2019).

23. Taxes and Duties

Supplier shall be entirely responsible for all taxes, duties (including stamp duty), license fees, etc., incurred until delivery of the contracted Equipment to the Procuring agency.

24. Overriding effect of Sindh Public Procurement Rules, 2010 (Amended 2019)	In case of conflict or primacy of interpretation the provisions of SPP Rules, 2010 (Amended 2019) shall have an overriding effect notwithstanding anything to the contrary contained in these bidding documents.

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

1. **Definitions (GCC – Clause 1)**
   The Procuring Agency is: Director, Sindh Institute of Urology & Transplantation (SIUT), Karachi.

2. **Consignee (GCC – Clause 1)**
   The consignee is: Sindh Institute of Urology & Transplantation (SIUT), Karachi.

3. **Goods (GCC – Clause 1)**
   "Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT."

4. **Performance Security (GCC Clause 8)**
   The amount of performance security, as a percentage of the Contract Price, shall be: 5% in the form of Pay order / Demand Draft / Bank Guarantee from any scheduled Bank of Pakistan.

5. **Inspections and Tests (GCC – Clause 11)**
   Representative of Procuring Agency or his nominee shall inspect the procured good and ensure that it meets the tender specifications before its acceptance

6. **Packing (GCC – Clause 13)**
   In addition to the General Condition of the Contract, items supply shall be made with a stamp "For SIUT only" on the packing of the Disposable items.

7. **Delivery and Documents (GCC Clause 14)**
   Supplier shall supply the good within 7-15 days of Purchase Order and shall submit the following.
   a) Supplier's invoice showing Goods' description, quantity, unit price, and total amount;
   b) Packing List identifying the contents of Supply;
   c) Delivery note & Shipping Documents.
   d) Warranty and guarantee certificate;
   e) Undertaking & GD (if applicable)

8. **Warranty (GCC – Clause 18)**
   The equipment shall bear 5 years comprehensive warranty with parts and services. Procuring Agency at its option may enter into a Service Level Maintenance Agreement upon expiry of the warranty period.

9. **Payment (GCC – 19)**
   Payment for the supply of items will be made after deductions of all applicable taxes, duties, Levies & charges within 30 days from the submission of complete documents for delivery of items.

10. **Liquidated Damages (GCC-25)**
    If the Supplier fails to deliver the goods or perform the services within the time period(s) specified in the contract, the Procuring Agency shall, without prejudice to its other remedies under the contract deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.07 percent of the Contract Price for each day of delay until actual delivery or performance, up to a maximum deduction of 10% of the Contract Price. Once the maximum is reached, the Procuring Agency may consider termination of the contract.

11. Resolution of Disputes (GCC – 30)

In the case of a dispute between the Procuring agency and the Supplier, the dispute shall be referred to the dispute resolution mechanism as defined in rule 31, 32 and 34 of the (SPP Rules, 2010 Amended 2019)

12. Applicable Law (GCC – 32)

Contract shall be interpreted in accordance with the Sindh Public Procurement law of Sindh.

13. Taxes & Duties (GCC – 34)

Prices should include all taxes and duties of federal and provincial government except sales tax on goods items as SIUT in exempt as per clause 52A of Sixth schedule to Sales Tax Act, 1990.

BID DATA SHEET

The following specific data for **"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."** to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB) Part One. Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

	Introduction
1	**Name of Procuring Agency:** Director Sindh Institute of Urology and Transplantation, Karachi. Telephone No 99216967 & 99216977
2	**Name of Contract.** **"Supply of Machines & Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital -SIUT."**
	Bid Price and Currency
3	• For the Goods offered within the Procuring Agency's Country: the price quoted shall be on delivered duty paid (DDP) Basis at Consignee's End. For the Goods offered from Outside the Procuring Agency's Country: the price quoted shall be on CFR / C&F Karachi Basis. • For the Goods offered within the Procuring Agency's Country: the price quoted shall be in Pak Rupees. • For the Goods offered from Outside the Procuring Agency's Country: the price quoted shall be in Foreign Currency.
	Preparation and Submission of Bids
4	***Selection Criteria / Responsiveness Criteria:*** 1. The Bidder should not have been barred by any of Provincial or Federal Govt. Deptt., Agency, Organization or autonomous body or Private sector organization anywhere in Pakistan. (Submission of undertaking on 100/- legal stamp paper). 2. Income Tax Certificate (NTN), valid GST Registration Certificate and the firm must be active tax payer. 3. FDA/CE or any other Quality Certificate must be attached with profile. 4. The Equipment should be brand new and un-used and Proposed Equipment must have manufacturer's warranty. 5. The Financial bid will be opened of those Bidders who will be qualified in Technical evaluation. 6. The Bidder must have local presence in Karachi in order to provide timely support services. 7. Tender Document duly signed and stamped each page by the Bidder along with complete company profile must be attached with Technical Bid. 8. The SIUT reserve the right to reject any Bid if any one of the above-mentioned Criteria is not fulfilled. 9. Bidder must comply with the requirement of Bid Evaluation Criteria Form [J] and Documents' checklist Form [K] for submission of Bid. **Notes:** Bidder must provide necessary supporting documents as proof in respect of the selection criteria mentioned above. Please refer "Instructions to Bidders" Section for further details.
5	**Amount of bid security.** 1% of Bid amount in shape of Pay Order / Bank Guarantee / Call Deposit.
6	**Bid validity period**. The period of bid validity shall be 90 days after the deadline of submission of Bids.
7	Clarification may be requested not later than **05 days** before the submission date for **Clarification of bid purposes** only, the Procuring Agency's address is: The (Procurement Officer) Procurement Department SIUT, Karachi.
8	**Number of copies.** One Original plus Soft Copy is Mandatory.
9	**Amount of Performance Security** will be **@** 5% of the Bidding amount for the whole agreement period (till expiry of warranty) in the form of Demand Draft/Pay Order/Bank Guarantee from AAA rated scheduled Bank.
10	Stamp Duty shall be affixed on contract @ 0.25% on items & 0.35% on services or as applicable of value of supply as per Stamp Duty Act 1899.
11	**Bid Evaluation:** Lowest Evaluated Bid

FORMS

[FORM: A]

BID

Tender No. 501 Date: _____

To
Office of the Director
SIUT, Karachi,
Sindh

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the Equipment, goods and / or specified in 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 requirements of this tender and purchase order.

If our Bid is accepted, we will submit Pay Order / Bank Draft / Call Deposit or obtain the guarantee of a bank in a sum equivalent to 5% 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 90 days or such extended period as agreed from the date fixed for Bid opening as per Tender Notice, 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.

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

Dated this _____ day of _____ 20_____.

_____ _____
[*Signature*] [*in the capacity of*]

Duly authorized to sign Bid for and on behalf of
_____

Note: *This document should be on the letterhead of the Bidder and should be signed by a person competent and having the power of attorney to bind the Bidder. It should be enclosed inside the* ***Financial Proposal*** *by the Bidder.*

[FORM: B1]

BID SECURITY /EARNEST MONEY

Please attach a copy of earnest money Pay Order / Bank Draft / Call Deposit on below space.

1). Bid Amount

In Figures	
In Words	

2). Earnest Money / Bid Security 1%

In Figures	
In Words	

Note: Total Amount of Bid for the calculation of Earnest Money / Bid Security Should also be accounted for C&F at the rate of exchange seven working days before the date of opening of Bid.

Detailed working must be submitted in price schedule.

[FORM: B2]

BID SECURITY
(In case of Bank Guarantee)

Guarantee No. _____

Amount (PKR) _____

Date of Issue_____

Date of Expiry_____

Name of Guarantor (Scheduled Bank in Pakistan) with address: _____

Name of Principal (Bidder) with address: _____

Bid Reference No. _____Date of Bid _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal, we the Guarantor above-named are held and firmly bound into the **Sindh Institute of Urology and Transplantation**, (hereinafter called The Procuring Agency) in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying Bid numbered and dated as above for _____ (Particulars of Bid) to the said Procuring Agency; and

WHEREAS, the Procuring Agency has required as a condition for considering the said Bid that the Principal furnishes a Bid Security in the above said sum to the Procuring Agency, conditioned as under:

(1) that the Bid Security shall remain valid for a period of twenty-eight (28) days beyond the period of validity of the bid;

(2) that in the event of;

- (a) the Principal withdraws his Bid during the period of validity of Bid, or
- (b) the Principal does not accept the contract of his Bid Price, pursuant to Clause 24 of Instructions to Bidders, or
- (c) failure of the successful bidder to
  - (i) furnish the required Performance Security, in accordance with Clause 24 of Instructions to Bidders, or
  - (ii) Sign the proposed Contract Agreement, in accordance with Clause 24 of Instructions to Bidders, the entire sum be paid immediately to the said Procuring Agency for delayed completion and not as penalty for the successful bidder's failure to perform.

NOW THEREFORE, if the successful bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract Agreement with the said Procuring Agency in accordance with his Bid as accepted and furnish within seven (07) days of receipt of Letter of Acceptance, a Performance Security with good and sufficient surety , as may be required, upon the form prescribed by the said Procuring Agency for the faithful performance and proper fulfilment of the said Contract or in the event of non- withdrawal of the said Bid within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Guarantor shall forthwith pay to the Procuring Agency the said sum stated above upon first written demand of the Procuring Agency without cavil or argument and without requiring the Procuring Agency to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Procuring Agency by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Procuring Agency shall be the sole and final judge for deciding whether the Principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Procuring Agency forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

_____
Guarantor (Bank)

Witness:

1. _____

_____
Corporate Secretary (Seal)

2. _____

1. Signature _____

2. Name _____

3. Title _____

_____
(Name, Title & Address)

_____
Corporate Guarantor (Seal)

[FORM: C]

Undertaking

WHEREAS [Bidder Name] hereby undertake against the Tender No. 388 to abide by the following clauses.

a) Whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agree to supply and accept the said item(s) at the rates for the supply of contracted quantity within the stipulated period shown in the contract.

b) We understand and confirm the refund of cost difference if the same equipment is/was supplied at lower rates to any other Govt./Semi Govt. or other institution in the province in the same fiscal year.

c) If any of the information submitted in this tender is found incorrect, our contract may be cancelled at any stage on our cost and risk.

_____ _____

[*Signature for and on behalf of Bidder*] [*Date*]

Note: *This undertaking should be on a stamp paper of Rs. 100/- arranged by the Bidder. It should be enclosed inside the Technical Proposal by the Bidder.*

[FORM: D]

Certificate

To
Office of the Director
SIUT, Karachi,
Sindh

WHEREAS [Bidder Name] hereby certify against the Tender No. 388 to abide by the following clauses.

a) We guarantee to supply the equipment, stores and / or services in accordance with the requirement specified in the tender documents.

b) We guarantee that the supplied medical equipment/machinery is the original and brand new product.

c) Our firm is not black listed by any organization / Government Department.

Authorized Sign & Stamp

[Bidder Name]

Note: *This certificate should be on the stamp paper of Rs. 100 and should be signed by a person competent and having the power of attorney to bind the Bidder. It should be enclosed inside the Technical Proposal by the Bidder.*

ON STAMP PAPER

Applicable Stamp Duty should be paid either by Stamp Paper or through adhesive Stamps.

[FORM: E]

CONTRACT

THIS AGREEMENT made the _____ day of _____ 20_____ between [name of Procuring Agency] of [city and country of Procuring Agency] (hereinafter called "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 equipment and ancillary services, viz., [brief description of equipment and services] and has accepted a bid by the Supplier for the supply of those equipment and services in the sum of [contract price in words and figures] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
   (a) the Bid Form and the Price Schedule submitted by the Bidder;
   (b) the Schedule of Requirements;
   (c) the Technical Specifications;
   (d) the General Conditions of Contract;
   (e) the Special Conditions of Contract; and
   (f) the Procuring Agency's Notification of Award and
   (g) The Bidding Documents.
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 equipment and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the equipment and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.
5. This agreement may be intended as will be mutually agreed by the parties hereto.

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

Procuring Agency	**Supplier**
_____	_____
Authorized Signature & Official Stamp	Authorized Signature & Official Stamp
_____	_____
Procuring Agency Name	Bidder Name
_____	_____
Address	Address
_____	_____
Contact No.	Contact No

PERFORMANCE SECURITY

Option 1 = Pay Order /Bank Draft / Call Deposit
Option 2 = Bank Guarantee

[FORM: F]

BANK GAURANTEE

To:
Office of the Director
SIUT, Karachi,
Sindh

Guarantee No. _____

Amount (PKR) _____

Date of Issue _____

Date of Expiry _____

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

And whereas it has been stipulated in the said Contract that the Supplier shall furnish to the Procuring Agency with a scheduled bank for the sum of 5% of the total Contract amount as Security for compliance with the Supplier's performance obligations in accordance with the Contract.

And whereas we have agreed to provide a Guarantee: for the said Supplier.

Therefore, we hereby unconditionally and irrevocably guarantee, 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 requiring the Procuring Agency to initiate action against the Bidder and without cavil or argument any sum or sums within the limits of **[Amount of Guarantee]** as aforesaid. The amount stated in the demand made under this guarantee shall be conclusive proof of the amount payable by the Guarantor under this guarantee.

The obligations of the Guarantor under this guarantee shall be valid for **[Period]** after the completion of delivery of supplies by the Bidder to the Procuring Agency of the full quantity of the goods for which this Guarantee is being given, and until all and any obligations and sums due have been paid in full.

Guarantor (Bank)

Witness:

1. _____

_____
Corporate Secretary (Seal)

2. _____

_____
(Name, Title & Address)

1. Signature _____

2. Name _____

3. Title _____

Corporate Guarantor (Seal)

[FORM: I]

SINDH INSTITUTE OF UROLOGY AND TRANSPLANTATION (SIUT)
Vendor Information Form

Company Name:					
N.T.N #					
Contact Person Name		Tel No.		Cell #	
Designation		Email			

Entity Type
1. Private □ 2. Public □ 3. NGO □ 4. Sole Proprietor □ 5. Partnership ☐

Type of Business
1. International Manufacturer □ 2. Domestic Manufacturer □ 3. Importer□ 4. Distributor □ 5. Supplier ☐

Details of Owners / Management				
Name	Designation	Dir Tel No.	Email	CNIC No.

Principle Product and Services		
1)	3)	5)
2)	4)	6)

Registered Office			
Address:			
State / Province		District	
City		Country	
Tel (Office)		Cell No.	
Fax		Email	
Website (URL)		Zip Code	

Work Office			
Address:			
State / Province		District	
City		Country	
Tel (Office)		Cell No.	
Fax		Email	
Website (URL)		Zip Code	

Please specify below the names & designations of the employees of SIUT to whom Owner/CEO/Management of your firm has relationship.

S. No	Name	Designation	Relationship
1			
2			
3			

If no data is filled in the above table and subsequently any information contrary to above facts will come in notice of SIUT then, in addition to other action, SIUT may terminate Purchase Contract at the cost of Supplier.

All information given above are true and correct.

Authorized Person **Stamp of the Company**

Copies to be attached: -

a) CNIC of Owners/Top Management

b) CNIC of Company Representative

[FORM: J]
BID EVALUATION CRITERIA

Please fill out the "Mandatory Section" here and submit the "Marking Section" in the "Technical Schedule (Form-G").

S. No	Info Required	MANDATORY SECTION	Page No.
1	Technical	Registration with Income Tax – NTN (Attach Certificate)	
2	Technical	FBR – Active Tax Payer Status: (a) Income Tax (b) Sales Tax & (c) SRB status, wherever services are applicable.	
3	Technical	a) General Sales Tax Registration for goods b) Sindh Sales Tax (if applicable) registration with Sindh Revenue Board (Attached Certificate)	
4	Technical	Professional Tax Certificate – Attach evidence	
5	Technical	Copy of the Pay order / Bank Draft of Bid security / Earnest money should be attached without showing the amount along with technical bid documents **(Original bid security should be attached with financial proposal)**	
6	Technical	Compliance of Terms & Conditions / Instructions in the Bidding Documents (Must submit the entire BIDDING DOCUMENTS, duly signed & stamped on each page with Technical Proposal)	
7	Technical	Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted by any institute of Federal, Provincial Government or any Organization anywhere in Pakistan (Certificate should be attached as sample FORM 'D')	
8	Technical	Company's detailed profile.	

S. No	Info Required	PRODUCT BIDDER / MANUFACTURER SECTION	Max Points
1	Technical	**Conformity to the Technical Specifications** a) Offered item / sample fully compliant with the required Specifications Points = 40 b) Offered item / Sample compliant with minor deviation ≤ 10% from the required specifications and quality Points = 25 c) Major deviation(s) from Tender Specification or substandard Sample Points = 0	40
4	Technical	Original Brochure or Catalogue (Attach evidence)	3
5	Technical	Accredited by WHO, US-FDA, EMA, MHRA, TGA, PMDA, Swiss Medic or Health Canada or by the SRA's (Attach relevant documents duly attested by senior executive)	8
6	Technical	Bidder's Website (Attach evidence)	2
9	Technical	Valid Agency/Distribution certificate from the Manufacturer – Attached evidence (Where applicable).	3
10	Technical	Current Good Manufacturing Practice (CGMP) certificate.	3
11	Technical	Past Performance of the Bidder. The firm will attach purchase orders along with relevant delivery challan of any Government/Semi Government/Teaching Hospitals (Attach evidence) **No of Hospitals Government/Semi Government/Teaching Hospitals :** (i) 1 = points 3, (ii) 2-4 = points 7, (iii) 5 or more = points 10. **Market Business Experience No of Years** : (i) 1 year = Points 3, (ii) 2-4 years =Points 7 (iii) 5 or more years = points 10.	10 10
12	Technical	SECP Incorporation Certificate (Attach evidence)	3
13	Technical	ISO certificate 9001 (Attach evidence)	3
14	Technical	Bank Certificate (Attach evidence)	2
15	Technical	Bank statement of Last year (Attach evidence)	2
16	Technical	Financial soundness : Turnover (Sales) 2020-21	5

		Above 400 Million 05 Marks 100 Million up to 400 Million 03 Marks Upto 100 million 02 Marks (Attach evidence)	
17	Technical	Income Tax Return – Attach evidence copy.	3
18	Technical	Audited Financial Statement for last two years- Attach evidence/copy.	3

	Total	**100**

Qualifying Marks: 70 %.
Financial bids of only "Technically Responsive Bidders" will be opened.

Note:

i) If no evidence is attached for any technical specification mentioned above then the response will be considered as negative even if "Yes" is given in the Technical Schedule.

ii) The technical evaluation carried out by the Procurement Committee SIUT, Karachi will be final which will be assessed on technical aspect and clinical experience basis of the Consultant (s) in the relevant specialty. In case no firm fulfills the scoring criteria, the procurement committee remarks will be considered as final.

iii) Hardcopy & Softcopy of this Form-J is mandatory

Delivery Schedule:

Items are to be supplied within 7 to 15 days from the date of Purchase Order, in case of imports by SIUT, items should be supplied within 45 days.

[FORM K]
DOCUMENTS' CHECKLIST

Please fill out the last 2 columns of this sheet and submit the hard copy along with soft copy.				
S. No	**Info Required**	**Documents**	**Yes/ No**	**Page No**
1	Technical	Bid Letter [Form A]		
2	Technical	Tender Purchase Receipt (Original)		
3	Technical & Financial	Bid Security [Pay Order/Bank Draft on Form B1] [Bank Guarantee as per Form: B2]		
4	Technical	Undertaking as per [Form C]		
5	Technical	Certificate as per [Form D]		
6	After Award	Contract Agreement as per sample [Form E] [applicable after Award Letter]		
7	After Award	Performance Security / Pay order / Bank Draft / Bank Guarantee as per sample [Form F] [applicable after Award Letter]		
8	Technical	Technical Schedule [Form G] **(Soft copy is also compulsory)**		
9	Technical	Delivery Schedule (Included in Form-H,)		
10	Financial	Price schedule [Form H] **(Soft copy is also compulsory)**		
11	Technical	Vendor Information [Form I] **(Soft copy is also compulsory)**		
12	Technical	Bid Evaluation Criteria [Form J] **(Soft copy is also compulsory)**		
13	Technical	Documents' Check List [Form K] **(Soft copy is also compulsory)**		
14	Technical	Technical Integrity Pact [Form L]		

Documents are to be filled in the Bid in above sequence.

BIDDER'S DETAILS:

Bidder Name: _____

Address: _____

Tel No: _____

Fax No: _____

Contact Person: _____

Mobile No: _____

Email Address: _____

Notes: All the participants are hereby requested to read the instruction, General, Special Condition and Evaluation Criteria of Bid carefully because no additional documents will be entertained Considered after opening of the bids. Bid evaluation and technical evaluation would be Carried out only on the basis of documents provided in the bid.

SOFT COPIES:

1. **Soft copy of Technical bid/Schedule of items quoted by Bidder is also mandatory according to our given format. [Form G]**
2. **Soft copy of Financial Bid/Price schedule is mandatory according to our given format. [Form H]**
3. **Soft copy of Vendor Information is also mandatory according to our given format with attachments. [Form I]**
4. **Soft copy of "Bid Evaluation Criteria" duly filled must be enclosed. [Form J]**
5. **Soft copy of "Documents' checklist" is mandatory according to our format above. [Form K]**
6. **Scanned copy of all Technical & Financial Document must be provided on USB or CD separately.**

[FORM: L]

INTEGRITY PACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS/CONSULTANTS.

Contract Number: _____ Dated: _____
Contract Value: _____
Contract Title: _____

_____ hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoS) through any corrupt business practice.

Without limiting the generality of the foregoing, _____ represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from Procuring Agency (PA), except that which has been expressly declared pursuant hereto.

_____ certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with PA and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

_____ accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to PA under any law, contract or other instrument, be voidable at the option of PA.

Notwithstanding any rights and remedies exercised by PA in this regard, _____ _____ agrees to indemnify PA for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to PA in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by _____ as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit, in whatsoever form, from PA.

_____ _____

[Procuring Agency] [Supplier /Contractor/Consultant]

SIUT MARIYAM BASHIR DAWOOD CHILDREN AND CARDIAC HOSPITAL (SIUT-MBDCCH)
DIVISION OF CARDIOTHORACIC SCIENCES
MEDICAL EQUIPEMENT REQUIREMENTS
PHASE ONE

S. No.	EQUIPMENT	SPECIFICATIONS	REQUIRED QUANTITY
1	**BLOOD GAS ANALYZER**		**4**
		Fully automated analyzer intended for in vitro testing of samples of whole blood, serum, plasma, acetate and bicarbonate containing dialysis solutions and pleural fluid for the quantitative measurement of: pH Blood Gas (BG): PO2, PCO2 Electrolyte (ISE): Na+, K+, Cl- , iCa2+ Hematocrit (Hct) Metabolites (MSS): Glucose, Lactate, Urea/BUN Total Hemoglobin (tHb) Oxygen saturation (SO2) Hemoglobin derivative COOX (O2Hb, HHb, COHb, MetHb) Bilirubin (neonatal) In addition, the system should calculate derived parameters. The following parameters can be measured in whole blood, serum or plasma: pH Blood Gas (BG): PO2, PCO2 Electrolyte (ISE): Na+, K+, Cl- , iCa2+ Hematocrit (Hct) Metabolites (MSS): Glu, Lac, Urea/BUN Total hemoglobin (tHb) Oxygen saturation (SO2) Hemoglobin derivative COOX (O2Hb, HHb, COHb, MetHb) Bilirubin (neonatal) In addition, the system should calculates derived parameters. The following parameters can be measured in whole blood, serum or plasma: pH Blood Gas (BG): PO 2 , PCO 2 Electrolyte (ISE): Na+, K+, Cl-, iCa2+ •Hematocrit (Hct) Metabolites (MSS): Glu, Lac, Urea/BUN	

		Total Hemoglobin (tHb) Oxygen saturation (SO2) Hemoglobin derivative COOX (O2Hb, HHb, COHb, MetHb) Bilirubin (neonatal) Specifications Through put up to 50 samples/hour Time to result less than 2 minutes with whole-blood sampling Module Optional module for automatic quality control Parameter combinations Three different parameter combinations including glucose, lactate, urea and bilirubin Maintenance Durable, low-maintenance sensors Touchscreen Easy-to-use touchscreen and intuitive user interface Trending acid-base maps Trending acid-base maps to support clinical decisions Reagent tracking Control reagents consumption Customizable Customizable features include a user-definable display and two types of sample application Connectable Connectable to hospital network for remote control and for comprehensive data management Should be able to provide raw data without any additional cost. Ability to intergrade with EHR and must have a barcode reader to read patient information EUROPE/UK/USA/JAPAN ORIGIN OR EQUIVALENT.	
2.	**DEFIBRILLATORS** **Defibrillator/Monitor with AED, ECG, Pacing & SPO2 and additional capability of internal paddles including all accessories**		**6**
		• **Modes**: AED, Manual, Synchronized Cardioversion, Pacing • **Energy Levels**: 1–360J with biphasic technology • **Monitoring**: 3/5/12-lead ECG, SpO2, NIBP, EtCO2	

		• **Battery**: Rechargeable with 4–6 hours of monitoring time • **Display**: High-resolution color LCD • **Accessories**: Adult and pediatric pads, paddles, and ECG cables	
3.	**TEMPORARY EXTERNAL PACEMAKER (DUAL CHAMBER) WITH CABLE**		**8**
		Latest Dual Chamber External/Temporary Pacemakers of international quality and CE/FDA approved, meeting atleast following standards/specifications: Modes DDD, DOO, DDI, AAI, AOO, VVI, VOO Basic Pacing Rates 30 – 200 ppm Upper Rate 80 – 230 ppm Rapid Atrial Pacing Rates 80 – 800 ppm Output Amplitude Atrial: 0.1 – 20 mA Ventricular: 0.1 – 25 mA Pulse Width Atrial: 1.0 ms Ventricular: 1.5 ms Sensitivity Atrial: 0.4 – 10 mV Ventricular: 0.8 – 20 mV A-V Interval Paced A-V (PAV): 50 – 250 Auto 20 – 300 Manual Sensed A-V (SAV): 50 – 250 Refractory Period Atrial: 150 – 500 ms (PVARP) Atrial Refractory after an Atrial event is equal to the AV interval Ventricular: NA Ventricular Blanking Pace: 200 ms Sense: 120 ms Height: Not more than 8.5 in Width Not more than 4 in Depth Not more than 2 in Weight Not more than 750 gm Battery Type Two IEC type LR6-sized (AA-sized) 1.5 V alkaline batteries (Duracell MN1500, Eveready E91 or equivalent) Battery Life 8-10 days typical, 6-7 days minimum Include necessary accessories and warranties *Cable Specifications:* • **Connector Type:** Universal 2 mm pin compatibility (IS-1 Standard). • **Cable Length:** Minimum 2 meters (reusable) or 3.7 meters (disposable). • **Material:** Medical-grade, latex-free insulation. **Sterilization:** Reusable cables compatible with ETO or steam autoclave. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	

4.	VENTILATORS (CONVENTIONAL = 8 AND HFO = 2)		8 + 2 =10
		Should be latest in industry, CE/FDA approved and suitable for neonatal/paediatric and adult patients and atleast meeting/fulfilling following parameters/specifications: Patient Age Group Paediatric, Adult and Infant and neonatal Tidal Volume Adult/Pediatric: 20 to 2000 ml, Neonatal: 2 to 300 ml Ventilation Mode (S)CMV, SIMV, APVcmv / (S)CMV+, APVsimv / SIMV+, PCV+, PSIMV+, DuoPAP, APRV, SPONT, ASV, NIV, NIV-ST, nCPAP-PS, HiFlowO2 Performance Data Maximum Inspiratory Flow 240 L/min (150 L/min with 100% O2) Parameter PEEP/CPAP Adult/Ped: 0 to 35 cm H2O, Neonatal: 0 to 25 cm H2O Control Flow Trigger Adult/Ped: 1 to 20 L/min, Neonatal: 0.1 to 5 L/min Flow Pattern Square, 50% decelerating, Sine, 100% decelerating Standards and Approvals Classification Class IIb, continuously operating according to EC directive 93/42/EEC Certification/Declaration The ventilator should be developed in accordance with pertinent international standards and FDA guidelines. Electromagnetic Compatibility Industry standard (latest). Safety Class Class II, Type B applied part (ventilator breathing system, VBS), type BF applied parts CO2 sensor including CO2 module connector, humidifier, nebulizer, and SpO2 sensor including SpO2 adapter. Pneumatic Performance Oxygen Pressure 2.8 to 6 bar / 41 to 87 psi Oxygen Connector DISS (CGA 1240) or NIST Air Supply Integrated ultra-quiet turbine Inspiratory Outlet (To Patient Port)	

		Connector: ISO 15 mm ID/22 mm OD conical Expiratory Outlet (From Patient Port) Connector (on expiratory valve): ISO 15 mm ID/22 mm OD conical Graphical Patient Data Intelligent Panel Dynamic Lung2, Vent Status, ASV Graph3 Waveform Pressure, Flow, Volume, PCO21, FCO21, Plethysmogram1, Ptrachea Trend 1, 6, 12, 24, or 72-h trend data for a selected parameter or combination of parameters Loops Pressure/Volume,Pressure/Flow, Volume/Flow, Volume/PCO21, Volume/FCO21 Additional Details Power Supply 100 to 240 V AC, 50/60 Hz or 12 to 24 V DC Display Size Should not be less than 12 inch - diagonal Display Type Color TFT Battery Backup 3-4 hours with one battery / ≥6-8 hours with two batteries Weight Ventilation unit: Less than 10 Kg; with trolley: Less than 40 kg (optimal) Alarms High: Apnea time (s), Exp ManVel high/low (l/min), Oxygen high/low (%), Pressure high/low (cmH2O), Flow sensor calibration needed, Exhalation obstructed, Disconnection, Oxygen supply failed, Medium: Total high/low (b/min), PetCO2 high/low (mmHg), Pressure limitation (cmH2O), Vt high/low (ml), SpO2 high/low, SpOC high/low,%leak, High PEEP, Loss of PEEP, Pulse high/low, Check flow sensor for water, Low: High SpO2, Loss of external power, Cuff leak I:E Ratio Adult/Ped: 1:9 to 4:1, Neonatal: 1:9 to 4:1 Automatic Expiratory Base Flow Fixed at 6 L/min Means of Inspiratory Triggering Flow trigger or pressure trigger control Means of Expiratory Triggering Flow cycle (ETS) Minimum expiratory time 20% of cycle time; 0.2 to 0.8 s Oxygen Mixer Accuracy ± (Volume fraction of 2.5% + 2.5% of actual reading)	

		Preoperational Checks Tightness test, Flow sensor/O2 sensor/CO2 sensor calibration Features HIgh Flow Oxygen Therapy High Performance Non Invasive Ventilation P/V Tool Pro for lung assessment and recruitment Trans pulmonary pressure measurement Integrated High Performance Turbine Automated ventilation Applications ICU, Critical Care and Transport Non invasive modes for neonates, paeds & adult. Appropriate size circuit for NIV for neo, paeds & adult. Sp02 n& ETCO2 monitors Nebulizers during ventilation option EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
5.	**HI-FLOW NON-INVASIVE VENTILATION SYSTEM WITH CIRCUITS AND VARIOUS TYPES OF NASAL CANNULAE**		**10**
		Standalone delivery of nasal high flow therapy. Device designed to facilitate the treatment of a broad patient group across hospital areas, including neonatal/paediatric/adult patients modes Battery backup(optimal) Humidifier Neonate Paeds& adults circuits & nasal interface Accurate Fi02 control Builtincompressor (optimal) Include all necessary accessories. CE/FDA approved. Warranty and efficient after sales. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
6.	**BIPAP NON-INVASIVE VENTILATION SYSTEM**		**4**
		Standalone delivery of BIPAP.	

		Device designed to facilitate the treatment of a broad patient group across hospital areas, including paediatric/adult patients. Include all necessary accessories. CE/FDA approved. Warranty and efficient after sales. Must include reusable masks 2 sets per bipap starting from smallest to adult size (all sizes) & circuits. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
7.	**HEART LUNG MACHINE**		**1**
		Compact with 5 roller pumps Touch screen central control monitor Flexibility of mounting of screen and additional pumps Intuitive user interface Displays alerts and alarms (bubble detector, level sensor, pressure sensors) Self-adjustable tube clamps according to perfusion needs Electronic gas blender Centrifugal pump Facility to run ECMO for 100 hours Continuous data information (CDI) which will be utilized for research and quality control. Internal battery and power back up of 100 hours Data storage and analysis facility and ability to integrate with hospital server User friendly Efficient after sales services EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
8.	**HEATER-COOLER SYSTEM**		**1**
		Dual Channel Sanitizing Ultraviolet light (reduce bacterial count by 99.999%) Prevents contaminated water to aerosolize Sealed air-flow channels Sterile water capacity 40 liters Independent channels for temperatures from 15-41C Three outlets Oxygenator Blanket Cardioplegia Easy to use touch screen Remote control option User friendly	

		Efficient after sales services EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
9.	**CEREBRAL OXIMETER**		**2**
		Regional oximetry and pulse oximetry simultaneously 5th wavelength Near Infra-Red Spectroscopy (NIRS) Effectively isolates targeted tissues Sensitive to skin color Penetration to 2.5 cms Algorithmic calibration Cerebral oximetry (SctO2) Systemic Venous oximetry (SjvO2) Somatic Oximetry (SmtO2) Part of hemodynamic profile Individualized (Skin tone, age, acuity, skin to cortex distance) User friendly Efficient after sales services EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
10.	**BIOMEDICAL REFRIGIRATOR**		**4**
		TWO SMALL SIZE BIOMEDICAL REFRIGERATORS Medical grade Small size approximately 100 TO 120 L capacity. Glass door. Visible temperature sensor +2/+8 CENTIGRADE TEMPERATUER **TWO MEDIUM SIZE BIOMEDICAL REFRIGERATOR** Medical grade Medium size approximately 300-400 L capacity. Glass door. Visible temperature sensor +2/+8 CENTIGRADE TEMPERATURE	
11.	**PATIENT MONITORS (22) INCLUDING CENTRAL CONTROL SYSTEM/STATION (4)**		**22+4**
		HIGH END PATIENT BED SIDE MONITORS **1. General Overview:** • **Suggested Models**: Nihon Kohden BSM-3000 or Spacelab C50 • **Type**: Multi-parameter patient monitor(7 parameters or more)	**10**

		• **Intended Use**: Designed for continuous monitoring of adult, pediatric, and neonatal patients in clinical settings, such as the ICU, OR, recovery room, and emergency care. • **Compliant with International Standards**: Meets IEC 60601-1, IEC 60601-2-27, ISO 13485, and CE marking. **2. Display and User Interface:** • **Display Type**: 15-inch or larger color TFT LCD display with a high resolution for clear visual monitoring. • **User Interface**: User-friendly interface with touch-screen controls for easy navigation and adjustment of settings. • **Screen Layout**: Configurable display for up to 8 different waveforms, trends, and parameters on the same screen. • **Waveform Display**: Real-time display of physiological waveforms such as ECG, SpO2, blood pressure, etc. • **Trend Display**: Continuous trend monitoring with historical data for up to 72 hours for easy review of patient progress. **3. Monitoring Parameters:** • **Electrocardiography (ECG)**: o 3/5 lead ECG monitoring (user-selectable). o Real-time waveform display and heart rate calculation. o High-resolution ECG analysis for arrhythmia detection. o Pacing detection, ST segment analysis, and arrhythmia alarms. o Heart rate (HR) range: 30 to 300 bpm. • **Blood Pressure (BP)**: o Non-invasive (NIBP) blood pressure monitoring. o Measurement modes: Manual, automatic, or continuous. o Systolic, diastolic, and mean arterial pressure (MAP). o BP Measurement range: 20–300 mmHg. • **Pulse Oximetry (SpO2)**: o Real-time monitoring of oxygen saturation (SpO2) and pulse rate. Non disposable probes from neonates to adults.	

		- High/low alarm limits for SpO2 and pulse rate. - SpO2 range: 0% to 100%, with a resolution of 1%. **Respiration Rate (RR)**: - Monitoring of respiratory rate via impedance pneumography or capnography. - Respiratory rate range: 0-120 breaths per minute. **Temperature**: - Dual-channel temperature monitoring (oral/rectal/skin) with options of disposable as well as non-disposable probes - Temperature range: 15°C to 45°C. - High and low-temperature alarms. **End-tidal CO2 (EtCO2)**: - Capnography monitoring to track the level of CO2 during exhalation. - Monitoring via mainstream or sidestream CO2 sensors. - EtCO2 range: 0-100 mmHg. **Invasive Blood Pressure (IBP)**: - Optional invasive blood pressure monitoring with up to 2 channels. - Pressure transducers support for arterial, venous, Pulmonary and intracranial pressure monitoring. - IBP range: 0–300 mmHg. **Other Parameters**: - Other parameters like invasive oxygen saturation (SvO2), cardiac output (estimated and calculated using hemodilution), and hemoglobin must be integrated. **4. Alarm and Notification System:** **Audible and Visual Alarms**: Should provide both visual and audible alerts for various conditions such as high/low heart rate, blood pressure, oxygen saturation, and temperature. **Alarm Settings**: Customizable alarm limits for individual parameters. **Priority Levels**: Different levels of alarm priority, allowing medical personnel to quickly identify critical conditions.	

		• **Smart Alarm System**: Minimizes false alarms with advanced threshold settings and adaptive monitoring. **5. Data and Connectivity:** • **Data Storage**: Built-in memory for storing patient data, waveform history, and trends. Should store up to 72 hours of trend data. • **Waveform and Trend Review**: Should allow users to review the past 72 hours of waveform and trend data in real-time. • **Connectivity Options**: Must support data communication with central monitoring stations, allowing for integration into hospital-wide monitoring systems . HL7 compatibility should ensure connectivity with AI platforms such as Etiometry. • **Network Compatibility**: Ethernet and Wi-Fi connectivity for remote monitoring and data sharing. **6. Advanced Features and Technologies:** • **Arrhythmia Detection**: Should detect and classify arrhythmias in real-time using advanced algorithms. • **ST Segment Monitoring**: Automatic analysis of the ST segment for ischemia detection. • **Dysrhythmia Detection**: Real-time detection of arrhythmic events with high sensitivity. • **Oxygen Therapy Monitoring**: Should monitor and ensure proper oxygen levels, providing real-time feedback and alarms for SpO2 readings. • **Capnography**: EtCO2 monitoring with both mainstream and sidestream options, ensuring accurate monitoring of the patient's ventilation status. **7. Power and Battery:** • **Power Supply**: AC power (100–240V, 50/60Hz), with power consumption ranging from 30W to 60W depending on connected modules. • **Battery Backup**: Must be equipped with an internal rechargeable battery to ensure continuous operation during power interruptions.	

		• **Battery Life**: Should provide up to 4 hours of continuous monitoring on battery power (depending on monitoring configuration). • **Low Battery Alert**: Audible and visual warnings when the battery is low. **8. Physical Specifications:** • **Dimensions**: Approximately 330mm (H) x 350mm (W) x 130mm (D). • **Weight**: Approximately 5.5 kg (monitor only). • **Mounting Options**: Wall-mounted, mobile trolley, or bedside configurations available for flexible use in various settings. Should be able to mount on to the anesthesia machine. • **Design**: Ergonomically designed with a compact footprint for space efficiency in busy environments. **9. Safety Features:** • **Electromagnetic Compatibility**: Fully compliant with IEC 60601-1-2 standards for EMC. • **Patient Safety Features**: Must include patient cable disconnection alarms, input error detection, and leakage current protection. • **Electrostatic Discharge (ESD) Protection**: Must be designed to ensure safe operation in environments with electrical noise or static charges. • **Power Failure Alarm**: Monitors for power loss and issues an alert to medical staff if there's any interruption in the power supply. **10. Service and Maintenance:** • **Self-Diagnostics**: Built-in self-diagnostic system to detect and report any malfunctions or issues, ensuring consistent performance. • **Easy Maintenance**: Modular design for easy replacement of components (e.g., batteries, ECG leads, etc.). • **Calibration and Calibration Alerts**: Must ensure that all parameters remain within a highly accurate range. Calibration should be performed via software for ease of use.	

		11. Additional Features and Options: • **Multi-Language Support**: Must offer multiple language options for global usage. • **Remote Monitoring**: Should be able to access remotely via a central monitoring station for hospital-wide surveillance. • **Customizable Display Layout**: The monitor's screen layout must be flexible and can be customized based on clinical requirements. • **Data Export**: Should allow for exporting patient data to external systems via USB or network connection. **12. Warranty and Support:** • **Warranty**: 5 years warranty depending on manufacturer policies. • **After-Sales Service**: Should provide comprehensive after-sales support, including training, technical support, and service contracts. • **On-site Service**: Available in many regions for maintenance and repairs. All origin EUROPE/USA/UK or equivalent.	
12.	**MEDIUM END PATIENT BEDSIDE MONITORS**	3, 5, or Diagnostic 12 lead ECG, Resp, SpO2, NIBP, Temp Up to 8 invasive blood pressures and Cardiac Output Up to 8 waveforms, 18 parameters Optional 19″ (48.3 cm) interactive touchscreen display Standard 8 hour battery using 2 hot swappable batteries 24 hour Patient Data Shuttle One button, quick release Docking Station Wireless connectivity Internal strip recorder Must have Capnography	**10**
13	**SMALLER TRANSPORT MONITORS**	Large color touchscreen Integrated quick-mounting clamp Pole for clamp Side stream Capnography (EtCO2) on battery and Wi-Fi 12-lead ECG User adjustable alarm lights Battery/data hours: 5/96 Ergonomic Handle Large display numbers: 4 Waveforms capacity: 2-6	

		Parameter capacity: 18 Invasive pressures: 4 Hardwire and wireless capability Display size: 8" (20.3 cm) Weight: 6-7 lbs (2.5-3.5 kg) Weight with Command Module 8-10 lbs (3.5-4.5 kg) Dimensions: 7.9"x10.2"x7.5" (20 cm x 26 cm x 19 cm)	
14.	**CENTRAL CONTRAL SYSTEM/STATION**	Central Control System/Station All origin EUROPE/USA/UK or equivalent.	**4**
15.	**AMBULATORY BLOOD PRESSURE MONITORS**		**5**
		Latest top of the line devices. Compact design, light weight, and quiet operation. For use in paediatric and adults patients. One Analyzer software and one desk top computer included. Cuff sizes for both paediatric and adult patients. HL7 and DICOM interface compatible. CE/FDA approved. 10 sets (X 4) cuff sizes included. Origin EUROPE/USA/UK or equivalent.	
16.	**AMBULATORY HOLTER MONITORS**		**5**
		Latest top of the line devices. Compact design, light weight, and quiet operation. For use in paediatric and adults patients. One Analyzer software and one desk top computer included. Cuff sizes for both paediatric and adult patients. HL7 and DICOM interface compatible. Origin EUROPE/USA/UK or equivalent. CE/FDA approved.	
17.	**PATIENT WARMING MACHINE WITH FULL BODY BLANKET (PATIENTS WARMERS)**		**10**
		Latest top of the line devices. Patient warmer system hypo hyper thermia blanket with machine and one extra blanket with each system Compact design, light weight, and quiet operation. Provide safe, quiet and effective warming to patients For use in paediatric and adults patients. Origin EUROPE/USA/UK or equivalent. CE/FDA approved.	

18.	**PATIENT COOLING/WARMING MACHINE/SYSTEM WITH FULL BODY BLANKETS/COOLING PADS AND KITS (FOR COOLING AND WARMING PATIENTS)**		**5**
		Latest top of the line devices. Patient warmer system hypo hyper thermia blanket with machine and one extra blanket with each system Compact design, light weight, and quiet operation. Provide safe, quiet and effective warming to patients For use in paediatric and adults patients. Origin EUROPE/USA/UK or equivalent. CE/FDA approved.	
19.	**PORTABLE OPERATING ROOM/SURGICAL LIGHT**		**2**
		Movable. Industry latest. LUX 130,000 LUX focusable stand mount extra bulb. For bed side and operating room procedures. Antibacterial coating. Quick look system. Origin EUROPE/USA/UK or equivalent. CE/FDA approved.	
20.	**SYRINGE PUMP**		**50**
		1. General Overview: • **Suggested Model**: B. Braun Perfusor® Space/Zeron Syrin 4000/B Braun Spaceplus Infusomat • **Type**: Syringe infusion pump • **Intended Use**: Must be designed for continuous, controlled infusion of intravenous fluids, medication, and parenteral nutrition. • **Primary Application**: Suitable for use in critical care, ICU, OR, and other medical environments requiring precision infusion for drugs such as anesthetics, vasopressors, antibiotics, and pain management. **2. Display and User Interface:** • **Display**: 3.5-inch color TFT touchscreen display with clear, easy-to-read settings and status indicators. • **User Interface**: Simple, intuitive touch interface that should allow for easy	

programming, configuration, and real-time adjustments during infusion.

- **Infusion Parameters Display**: Display of infusion rate, volume infused, remaining volume, time elapsed, and total volume to be infused.
- **Graphical Display**: Real-time graphical representation of infusion flow for quick visual assessment.
- **Customizable Interface**: Should allow for setting up to 10 user profiles, each with specific infusion settings and preferred parameter configurations.

3. Infusion Modes and Features:

- **Infusion Modes**:
  - **Continuous Infusion**: Continuous delivery of fluids or medication at a constant rate.
  - **Bolus Mode**: Should allow for rapid infusion of a preset volume of fluid or medication.
  - **PCA (Patient-Controlled Analgesia)**: Must enable patients to control their own pain relief with predefined safety limits.
  - **Tapering and Ramp**: Gradual increase or decrease in infusion rate for smooth transitions in treatment.
  - **Target Controlled Infusion(TCI)**: Must have atleast 2 different modes for TCI delivery
  - **Drug library**: Must have a list of most common medicines with infusion profiles in the library
- **Infusion Rate**:
  - Wide range of flow rates for precise control over medication and fluid delivery.
  - Rate range: 0.1 to 1,200 mL/h (depending on the syringe size used).
- **Volume Infused and Remaining**: Real-time tracking of the volume delivered and the remaining volume to ensure accurate infusion management.
- **Syringe Size Compatibility**: Compatible with a wide range of syringe sizes, from 5 mL to 60 mL syringes.

4. Safety Features:

		• **Occlusion Detection**: The pump must be able to detect occlusions or blockages in the infusion line and provides an alarm to alert the operator.
		• **Air-in-Line Detection**: Should identify air bubbles in the infusion line and should trigger alarms to prevent air embolism.
		• **Infusion Pressure Monitoring**: Should monitor the pressure within the syringe to ensure safe and effective infusion under optimal conditions.
		• **Pre-Configured Safety Limits**: Pre-set upper and lower limits for infusion rates, volume, and pressure, with automatic notifications for out-of-range conditions.
		• **Infusion Monitoring and Alerts**: Audible and visual alarms for:
		  o Syringe completion
		  o Blockage or occlusion
		  o Low battery
		  o End of infusion
		  o Air in line
		  o Low volume
		• **Infusion End Alarm**: When the syringe is empty or infusion is complete, the pump should generate an alarm and stops infusion automatically.
		
		5. Battery and Power Supply:
		
		• **Power Supply**: Operating voltage: AC mains (100–240V, 50/60Hz) with an internal rechargeable battery.
		• **Battery Life**:
		  o Up to 8 hours of operation on a fully charged battery (depending on usage and infusion settings).
		• **Battery Charging**: Should charge the battery while connected to AC power.
		• **Low Battery Indicator**: Should alert the user when battery power is running low, with sufficient time to replace or recharge.
		
		6. Connectivity and Integration:
		
		• **Connectivity**:
		  o Available for integration with hospital data management systems, electronic health records (EHR), and patient monitoring systems via wireless or wired connections. Should be able to connect to AI tools such as Etiometry via HL7 connectivity	

		• **Infusion Management System**: Should be able to connect to a central infusion management system for real-time data transmission and centralized control in high-demand environments such as ICU or operating rooms. • **Infusion Data Logging**: Logs infusion data including time, rate, volume, and any interruptions. This data can be accessed and exported for patient record documentation. **7. Infusion Accuracy and Precision:** • **Infusion Accuracy**: ○ Must ensure highly accurate infusion with a precision of ±2% or better, ensuring that prescribed medication doses are delivered accurately. • **Flow Accuracy**: Should provide highly consistent flow rates for safe and effective medication administration. • **Syringe Detection**: Automatic adjustment of infusion rate based on the syringe size used, ensuring accurate infusion for a wide variety of syringe types and volumes. **8.Dimensions and Physical Specifications:** • **Dimensions**: Approximately 200mm (W) x 160mm (H) x 100mm (D). • **Weight**: Approximately 1.5 kg (pump unit). • **Mounting**: Compatible with various mounts, including pole mounts and stands, for easy positioning during clinical use. • **Compact Design**: Lightweight and compact for ease of use in space-constrained environments like operating rooms and intensive care units. **9. User and Maintenance Features:** • **Modular Design**: The system is designed for easy maintenance, with replaceable components such as the battery and internal parts. • **Self-Diagnostics**: Equipped with an automatic diagnostic system to check for malfunctions and issues during operation, providing alerts for required maintenance.	

		• **Calibration**: Built-in calibration checks ensure that the device maintains optimal performance over time. • **Firmware Updates**: The Perfusor® Space pump is capable of receiving software updates via a USB port or network connection, ensuring up-to-date functionality and features. **10. Additional Features and Customization:** • **Infusion Rate Logging**: Provides historical logs for each infusion, allowing users to track the volume and duration of infusions over time for reporting and documentation. • **Multilingual Support**: The device supports multiple languages for use in different regions and healthcare settings worldwide. • **Customizable Alarm Limits**: The pump allows for user-customized alarm limits for each parameter, providing flexibility based on patient needs and clinical settings. • **Wireless Communication**: Optional wireless communication features, enabling integration with hospital networks and centralized monitoring systems. **11. Warranty and Support:** • **Warranty**: 5 years • **Service and Maintenance**: Regular maintenance and calibration services should be available. • **Training and Support**: On -site and online training for healthcare professionals on how to properly use the infusion pump, along with technical support.	
21.	**INFUSION PUMPS**		**50**
		Infusion range 0.1 to 1200 mls per hour. Minimum increment 0.1 mls per hour. Battery more than six hours. Accumulated volume 0 to 99999.99 mls. Drug reservoir. Pumping tubing and connectors 9built in or external to the unit). A user interface consisting of the programming unit, display unit, audio and tactile notification units. Power supply.	

		Pump battery and circuitry to charge and monitor the battery. CE/FDA approved. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
22.	**SUCTION MACHINE**		**2**
		- **Type**: Electric, portable, and wall-mounted options - **Capacity**: Dual jars, each 2–3 liters with autoclavable canisters - **Vacuum Range**: Adjustable 0–700 mmHg - **Flow Rate**: ≥ 40 L/min - **Noise Level**: ≤ 60 dB - **Safety**: Bacterial filter, overflow protection	
23.	**LARYNGOSCOPE SETS**		**4**
		Macintosh laryngoscope blade size 00, 0, 1, 2, 3 and 4. Miller laryngoscope blade size 00, 0, 1, 2, 3 and 4. Mc Coy laryngoscope blade size 3 and 4. CE/FDA approved. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
24.	**BLOOD WARMERS/INFUSERS**		**10**
		Temperature range 36 to 44 degree centigrade. Battery backup. Diameter 4 mm. CE/FDA approved. EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
25.	**NEONALTE/INFANT RADIENT WARMER**		**4**
		Storage Drawer, X ray tray Mattress foam, Accessory rails, vertical height adjustment, adjustable observation light, UPS in build, Cylinder holder, Acrylic x-ray tray, Monitor shelf, IV pole, Acrylic sheet, Temperature probe, Reflector cover, CE/FDA Approved (Resusctair) Neo puff (PIP & PEEP Oxygen part Suction part EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
26.	**NEONATE/INFANT INCUBATOR**		**4**

		A neonatal incubator should be spacious with easy access to baby and offer precise temperature control 32°C–38°C, with probes humidity 40%–80%, and oxygen regulation 21%–95%, with noise levels ≤60 dB. It must support up to 10 kg, have sealed access ports, alarms for critical parameters, AC power with 1-2 hr battery backup, lockable wheels, and comply with ISO, CE, and FDA standards. Optional options include medical air port, suction port, phototherapy unit and touch or manual control Double door on both side Double wall Built in weight scale Option of head elevation (automatic control) EUROPE/UK/USA ORIGIN OR EQUIVALENT.	
27.	**DIATHERMY WITH COMPLETE ACCESSORIES**		**2**
		Modes: Monopolar & Bipolar (Cutting & Coagulation) **Power:** Up to 400W (cutting), 120W (coagulation) **Safety**: Return electrode monitoring, isolated circuits, alarms **Display**: Digital touchscreen **Accessories**: Footswitch, reusable hand pieces, disposable electrodes	
28.	**ECG MACHINES**		**4**
		Real 12-lead ECG with built-in rechargeable battery to allow for portability. Pacemaker detection that meets the requirements of ANSI/AAMI EC11. 12.1" foldable high resolution color touchscreen to allow for ease of use and interpretation. Automatic measurement and interpretation tested with authoritative CSE database along with advanced features such as real-time waveform freeze and automatic arrhythmia detection. Complete digital filters, minimizing baseline drift, AC and EMG interference. CE/FDA approved. USA/EUROPE/UK OR EQUIVALENT ORIGIN.	
29.	**WEIGHT MACHINE WITH HEIGHT ROD**		**6**
		For use in pediatric and adult patients.	
30.	**INFANT WEIGHT SCALES**		**4**
		For use in infant patients.	
31.	**BLOOD PRESSURE WITH SPO2 MACHINES (DYNAMAP)**		**6**

		For use in paediatric plus adult patients. Cuff sizes from neonatal to adult thigh cuffs (full range) – two sets with each. SPO2 sensors neonatal/pediatric and adults – three sets with each. CE/FDA APPROVED. USA/UK/EUROPE or equivalent in origin.	
32.	**ELECTRIC SHAVER WITH CHARGER (SURGICAL CLIPPERS)**		**4**
		Blade Type: Single-use, skin-friendly surgical blades • **Battery**: Lithium-ion with ≥ 60 minutes runtime • **Charging Time**: ≤ 2 hours • **Design**: Ergonomic, waterproof **Accessories**: Charging station, multiple blade option USA/EUROPE/UK or equivalent in origin.	
33.	**ICE SLUSH MACHINE (SURGICAL ICE MAKER)**	• **Production Rate**: ≥ 5 kg/hr of soft, surgical-grade ice • **Storage Capacity**: ≥ 15 kg • **Operation**: Automatic with push-button interface • **Sanitation**: Easy-to-clean surfaces, antimicrobial treatment • **Material**: Stainless steel body	**2**
34.	**ANESTHESIA MACHINE**	1. **User Interface and Design**: o Large 18 to 22-inch rotatable touchscreen monitor with intuitive controls. o Illuminated APL (Adjustable Pressure Limiting) valve in manual mode. 2. **Ventilation and Oxygenation**: o Perioperative lung-protective ventilation with tools to support ICU-level ventilation for all patient types. o Automatic Controlled Anesthesia (ACA) to allow rapid responses to changes in patient status. o Integrated high flow nasal cannula (HFNC) technology, o Integrated Jet ventilator capability with intermittent normal ventilation option 3. **Electronic Vaporizer and Fresh Gas Flow**:	**5**

		○ Safe and precise agent delivery through an advanced electronic vaporizer. ○ Automatic adjustment of fresh gas and vaporizer output to achieve target end-tidal agent and oxygen concentration levels. 4. **System Safety and Monitoring**: ○ Automatic system safety check that completes in 3.5 minutes. ○ Integrated monitoring of FiO2, EtO2, CO2, N2O, and auto-detection of five anesthetic agents, along with BIS & NMT monitoring capabilities. 5. **Ventilation Modes**: ○ Adaptive Minute Ventilation Mode (AMV) facilitates easy switching between controlled and spontaneous ventilation without additional adjustments. ○ Optimizer and AA Prediction tools provide real-time guidance for lower fresh gas flow to reduce anesthetic agent consumption. 6. **Modular and Expandable System**: ○ Configurable up to 10 different user profiles, allowing quick changes between users. ○ Compatibility with various modules and peripherals, such as the E-AGSS system for scavenging flow rate monitoring and real-time feedback on system status.	
35.	**AIR MATTERS**	For patient preventing from bed sores and pressures sores Size should be atlease larger then the bed	30
36.	**Air purifier**	For preventing from fungal infection. Mainly role in neonatal services	5
37.	**TCP machine**	To check for the jaundice	2
38.	**OET Cuff Manometer**	To check the cuff pressures of ETT Tube	5
39.	**Phototherapy Penta light**	To Reduce the jaundice in neonate	5
40.	**TWICH MONITOR**	To check the patient Conscious level mainly in deep paresis	2
41.	**Transluminator**	To check for pneumothorax	2
42.	**Bottle sterilizer**	To delivered the sterilized feed	2
43.	**Steam inhalation machine**	For ARDS Treatment	3

44.	**Nebulizer machine Compressor**	For Cyanotic patients	5
45.	**Percussor Neonate/Pediatric**	For lung Rehabilitation	2
46.	**Percussor Adult**	For lung Rehabilitation	2
47.	**Blood Product Weight machine**	To check the exact amount of blood products	2
48.	**IO/Intra ocius Gunn with all accessories**	For emergency cannulation during CPR	2
49.	**Aerogen Nebulizer Machine**	For Extra efficiency in nebulization	2
50.	**Sillicon Jell pads (Head and Heals)**	For preventing Bed sores for long stay patients	10 each
51.	**Danger box**	For Disposing the sharps	40
52.	**Intraortic balloon pump with all necessary accessories**	**1. General Requirements** • Portable IABP system for adult and pediatric use. • CE/FDA-approved device. **2. Technical Specifications** • **Operating Modes:** o Automatic, Semi-automatic, and Manual. • **Triggering Modes:** o ECG, pressure, and internal/external triggers. • **Deflation Timing:** o Auto-calibration with manual override. **3. Balloon Inflation and Control** • Rapid inflation/deflation for optimal diastolic augmentation. • Helium-based inflation for fast response. • Auto-fill helium reservoir with low-level alarm. **4. Patient Monitoring & Display Display Parameters:** o Real-time ECG and aortic pressure waveforms. o Balloon inflation timing, heart rate, MAP, augmented pressure. • **Alarms:**	2

		○ Low/no augmentation, arrhythmias, gas leaks, system failure, helium depletion. **5. Balloon Catheter Compatibility** • Multiple sizes (25, 34, 40, 50 ml) and pediatric options (10–15 ml). • Radiopaque marker for positioning. • Dual-lumen design with kink-resistant tubing. **6. Battery Backup & Power** • Minimum 60-minute battery backup. • 220–240V AC, 50–60 Hz power input. • Automatic battery switching on power failure. **7. Portability** • Lightweight, compact design with mobile trolley/cart. • Locking wheels for transport stability. **8. Connectivity & Data Storage** • USB/network connectivity for data export. • Integrated 24-hour data storage. • Optional connection to hospital information systems (HIS). **9. Safety Features** • Gas-leak detection with automatic system shutdown. • Automatic helium purge during catheter exchange. • User-lockout feature to prevent accidental changes. **10. Accessories** • Complete balloon catheter set (adult & pediatric). • 2 spare helium tanks. • Patient cables and pressure tubing sets.	
53.	**Extracorporeal Membrane Oxygenation (ECMO) Machine**	**1. General Requirements** • ECMO system suitable for adult, pediatric, and neonatal patients. • CE/FDA-certified.	

		• Portable, with modular components for easy transport and maintenance.
		
		2. Technical Specifications
		
		• **Modes of Operation:**
		  ○ Veno-Arterial (VA) and Veno-Venous (VV) ECMO support.
		  ○ Capable of transitioning between modes without system shutdown.
		• **Flow Rate:**
		  ○ Minimum flow rate: 0.5 L/min.
		  ○ Maximum flow rate: 7 L/min or higher for adult patients.
		• **Pump System:**
		  ○ Centrifugal pump with magnetic or levitating rotor for reduced hemolysis.
		  ○ Flow accuracy of ±10% or better.
		  ○ Silent operation and low vibration.
		
		3. Oxygenator
		
		• Membrane oxygenator with high-efficiency gas exchange.
		• Low priming volume (pediatric: ≤100 ml, adult: ≤400 ml).
		• Integrated heat exchanger for temperature control (range: 15°C to 42°C).
		
		4. Patient Monitoring & Display
		
		• Continuous display of:
		  ○ Blood flow rate, venous saturation (SvO2), arterial saturation (SaO2).
		  ○ Inlet/outlet pressures, temperature, and hemoglobin level.
		• **Alarm System:**
		  ○ Visual and auditory alarms for flow rate changes, oxygenation failure, high/low pressures, temperature deviation, and system errors.
		
		5. Power Supply & Battery Backup
		
		• 220–240V AC, 50–60 Hz input.
		• Minimum 60-minute battery backup for power outages.
		• Automatic switch to battery upon power failure.
		
		6. Portability & Design
		
		• Compact and lightweight with mobile cart.	

		• Lockable wheels for stability during transport. • Quick-connect tubing system for easy setup and exchange. **7. Cannulae Compatibility** • Full set of ECMO cannulae (adult, pediatric, neonatal sizes). • Biocompatible and radiopaque for easy positioning. • Dual-lumen options for Veno-Venous ECMO. **8. Data Storage & Connectivity** • 24-hour or more data storage capacity. • USB/network connectivity for data export and integration with hospital information systems (HIS). **9. Safety Features** • Integrated bubble detector and air purge system. • Overpressure safety mechanism. • Oxygen and CO2 monitoring with gas supply alarms. • Bypass capability for system failure. **10. Accessories** • Complete tubing sets and connectors. • Oxygenators and cannula sets for all patient sizes. • Heater/cooler unit compatible with the system. • Air and oxygen blander.	
54.	**Echocardiography Machines**	**1. Product Description:** A complete dedicated Echocardiography System for wide range of premium performance application of Cardiovascular Imaging in Peadiatric and Adult with 4D TTE & TEE imaging with built-in workstation / data management system for digital acquisition and should be quote latest model and recently release **2. Console Design:**	4

		System must weigh 75KG or less Built in Battery for transport and proper shutdown in case of power failure **22" or more HD Folding and Swivel LCD Screen with minimum resolution of 1920 x 1080 pixels** Ergonomically designed with a Floating Keyboard that is adjustable in three dimensions (height, rotation, and Extension **User Interface Touch Screen 12" HiRes LCD screen with ability to review and play stored loops on it** PC based system using windows 10 platform Power Requirement: 220-240 V / 60 Hz **3. IMAGE PROCESSING and OPTIMIZATION** System Must have programmable and flexible "Completely Software based" beamforming technology providing exceptional image quality and power compared to conventional hardware-based beamforming technology **System must have unlimited number of effective channels if software based** **High frame rates for 2D with a system capability of 2900 fps or more** System capability for **real time 3D/4D** imaging with High Frame Rate for both **TTE & TEE** High frame rates for Color Doppler with a System frame rate Capability of 600 fps or more **True confocal imaging – (No Focal Zones)** pixel based focusing throughout the field of view Ultra-narrow focused two-way beam profile throughout the field-of-view, maintaining frame rate, no zone stitching, no multi-line acquisition artifacts	

		and enhanced dynamic contrast resolution throughout field-of-view compared to conventional focal imaging Tissue Harmonic Imaging with up to 6 different 3rd generation Harmonic frequencies for each Probe Harmonic Frequency Compounding – real-time simultaneous acquisition at dual frequencies compounded to help reduce speckle and noise while enhancing resolution and contrast Elevation Compounding capability on both 2D & 3D Probes for narrower image slice throughout the field of view Automatic Tissue Optimization Continues Tissue Optimization for Gain, TGC and LGC with one button Automatic Spectral Doppler Optimization One Button automatic optimization for spectral Doppler's Scale, Baseline, Sweep Speed, and Compression **Modes of operation:** B-Mode, M-Mode, Color M-Mode, Anatomical M Mode, Color Doppler, Color Anatomical M Mode, PW Doppler, HPRF Doppler, CW Doppler, Steerable Doppler, PW Tissue Doppler Imaging, Tissue Velocity Imaging (TVI), Tissue Tracking (TT), Tissue Synchronization Imaging (TSI), Strain Imaging (SI), Strain Rate Imaging (SRI), Bi-Plane and Multi-plane 2D imaging with Matrix 4D Probes, 4D imaging Coded Phase Inversion technology for (LVO) applications **Advanced 2D Probe Technology combining both Active Matrix Array and Single Crystal Phased Array** **Adjustable image width of 2D probes with a maximum field of View of 120º**	

		3 x Active switchable transducer ports having Pinless Technology **1 x Port for Pencil Probe** **Port for ECG with ECG Leads** **Virtual Apex** ability on Sector probes allowing the image to start from the entire width of the probe enabling a wide field of view in the near field **4. Advanced Cardiac Measurements Tools with using One Button Artificial Intelligence** PW Tissue Doppler Imaging Tissue Velocity Imaging with Color window display of tissue velocity **Tissue Tracking** with color coded presentation of Myocardial systolic displacement or equivalent technology Tissue Synchronization Imaging which gives Color Coded information about synchronicity of myocardial motion, should be Available in live scanning as well as an offline calculation derived from TVI Raw data including velocity trace visualization Strain & Strain Rate Imaging and complete parametric ROI curves and data tables Parametric Imaging with up to 6 ROIs for digital representation graphs of mean velocities of Tissue Doppler and with event timing **Auto EF**, Auto EF feature should have the ability to recognize standard 4Ch and 2Ch view with Artificial Intelligence as well as the ability to be used for DICOM imported Views from Other Vendors with **One Touch** AI based Simultaneous Simpson Bi-plane Ejection Fraction Calculation **Automated Function Imaging AFI** an Automated software using Speckle tracking to enable automatic tracking of endocardial to Epicardial border for the three apical views to construct a Bulls Eye calculation model and	

		data of the segmental longitudinal strain - LV function Should use **Artificial Intelligence to enable automatic view recognition**… (4Ch, 2Ch, 3Ch) and find relative loops with similar (geometry, frame rate, and heart rate) in order to automatically complete AFI Bulls Eye with minimal user intervention **AFI LV Strain** with AI based **One Touch** Simultaneous 3 Apical Views ROI placement, Segmentation, Longitudinal strain calculation, and Bulls Eye Creation should have the ability to be used for DICOM imported Views from Other Vendors **AFI RV 2D Strain,** an Automated software using Speckle tracking to enable automatic tracking of endocardial to Epicardial border of the Right Ventricle from four chamber view to calculate Global and Segmental longitudinal strain as well as Free Wall Strain in addition to TAPSE **AFI LA 2D Strain,** A Parametric tool giving quantitative data for left atrial longitudinal global strain as well as LA volumes and Emptying Fraction derived from the apical 4-chamber and 2-chamber views A Stress Echo Package with preset and user defined templates/Protocols should have the ability to recall all imaging parameters for each view from baseline stage to streamline process so that user never has to change Depth, width, Tilt, Frequency, Gain, Focal zones, compression, or Zoom for any view in later stages **2D Auto measure** to automatically measure LV diameters In Diastole and systole from PLAX view with One button using **Artificial Intelligence** **Cardiac Auto Doppler with AI Spectral recognition**, **AI** based Spectrum Recognition feature to enable automated recognition of the most common Doppler spectra and automatically start the Auto Doppler tracing and measurement results for most common measurements including and not limited to the following;	

		Aortic Valve: (AV Vmax, AV Trace, LVOT Vmax, and LVOT Trace, AR) **Mitral Valve:** (E/E, E', and MV Trace, MR) **Tricuspid Valve:** (TR Vmax) and **Pulmonic Valve:** (PV Vmax, PV Trace, RVOT Vmax, and RVOT Trace, PR) Pulmonary Vein (PV PW) **5. TEE 4D Imaging** Easy to use 4D articulation with the ability to automatically switch between different 4D cropping views common to 2D views such as 4Ch, 2Ch, Mid Esophageal long access, Mitral, and Aortic Valve Views with a single command knob 6/9 & 12 slice view with the ability to view 9 slices in short access and three apical views simultaneously 3D Enhancement options for improving depth display and perception such as Stereo Vision, Depth Illumination with a Torch effect, HD Live imaging as well as Polar Vision to be used with external medical grade 3D monitors Flexi zoon; Ability to select zoom boxes from reference 2D views prior to 4D acquisition to enable 4D activation of 4D views already cropped to the area of interest without the need to do any further cropping or manipulation System capability for **4D** imaging volume rate should be **more than 150 volumes per second** 3D Enhancement options for improving depth display and perception such as Stereo Vision, Depth Illumination with a Torch effect, **HD Color 4D** with the ability to see velocity components inside the flow volume make lower velocity Jets more transparent allowing better visualization of significant Jets Ability to interface with Cath system by showing X-ray image on the image screen of the echo scanner (Must not be a closed system to one vendor)	

		6. 4D Quantification Automated 4D Left Ventricular Quantification with the ability to measure instantaneous LV Volume and EF from Semiautomatic Endocardial detection of the Entire LV **4D Right Ventricle Quantification tool** Semi-automated 4D Right Ventricle (RV) volume tool providing volumes, ejection fraction, TAPSE and RV strain values from volumetric data sets providing the ability to include results (both alpha-numeric values and screen captures) into the patient exam **4D Auto Aortic Valve Quantification tool** Automated alignment, segmentation and measurement of aortic annulus from volumetric data sets that is Fully integrated in M&A system with results in worksheet **4D Mitral Valve Quantification tool** semi-automated MV assessment tool providing the ability to include quantitative results for the mitral valve apparatus, into the patient exam **7. Archiving** Digital Acquisition and retrieval of the original image quality **Archiving database management system** allows the storing and reviewing of images and loops in their raw format, i.e. ***offline*** resolution and frame rate are the same as online and life scanning Ability to display images from different studies side by side *Offline* analysis and processing allowing the user to change the following settings: 2D gain, Grey scale maps, Zooming, 2D image processing, ATO, Color gain, color maps, Color Baseline, M mode gain, M mode map, Anatomical M-Mode, Doppler gain, Doppler maps, Doppler baseline, rejection, Doppler Compression, All measurements	

		Offline Manipulation and Cropping of 4D Volumes with Virtual Acquisition of different 4D Views for storage space management Online and offline Complete Cardiac measurements and Analysis package Online Final Report generator with preset text templates and diagnostic statements for all pathologies, diseases, and prognosis Ability to Export Report in PDF format CD/DVD R/W Drive, USB Ports, and an integrated 1 TB HD drives Ability to export Images and Loops to all of the following formats: DICOM, Jpg, Bmp. Mpeg, AVI Print Reports and images directly to Desk Jet Printer DICOM Store – Ability to send DICOM study to a DICOM PACS DICOM Retrieve – Ability to retrieve studies from a DICOM PACS network to review old studies and compare with current exam DICOM Worklist – Ability to import patient information from the DICOM PACS list of scheduled patients to enable smooth study transfer with no patient information discrepancies DICOM SR – Ability to send all applicable measurements and calculations to DICOM PACS network labeled in DICOM SR standard DICOM MPPS – Ability to update PACS system once procedure is finalized for Billing and scheduling purposes DICOM Print – Ability to send images to a DICOM Printer DICOM Media – Ability to read and write DICOM studies on DVD/USB media	

		DICOM Viewer – Ability to copy a DICOM reader on media every time the user copies a DICOM study onto the same media The system must have provision to attach External Monitor via USB or VGA / HDMI DVI **8. Workstation:** External PC workstation (for image review, analysis, quantification, and reporting, with same software and user interface as the Echo machine, Quantifications should be from original manufacturing and not from 3rd Party). **Workstation Details:** **Specifications:** • Core i-series CPU (latest processor should be 12th generation Core i5 on all system) • 512 GB NVMe • SSD is recommended on all system • 16GB RAM • 1TB HDD • USB Ports • LAN Card • DVD-RW • Keyboard & Mouse • **Graphics Card:** Graphic Card must be capable to run 4D graphics minimum 4GB/128-bit card. • **Monitors:** 24" LCD (Dual Monitor) • **Operating System:** Original Licensed Windows 10/11 CD **9. Required Probes:** 2D Adult Cardiac Sector Probe (1.5 – 5 MHz or better) with both Matrix Array and Single Crystal Technologies Pediatric Cardiac Sector Probe (2 – 8 MHz or better) 4D Adult TEE Matrix Probe (3 – 8 MHz or better) 4D Adult TTE Probe (1.5 – 5 MHz or better) with both Matrix Array and Single Crystal Technologies along with Bi-Plane(X-Plane) and	

		Tri-Plane Capabilities as well as Full Volume real time 3D/4D acquisition **10. Optional Probes (Mandatory to Quote):** 2D TEE Probe for Peadiatric (3 – 10 MHz or better) 2D Micro TEE Neonatal Cardiac Sector Probe (4 – 12 MHz Approx.) with Pinless connector Probe linen 11L, Hockey stick probe. Blind Panel Prok. **11. Certification:** Offered model must be certified by any two of the following: • FDA 510K • CE/MDR/MHLW **12.** Online pure sinewave UPS (Recommended by Manufacturer) for 30 mins backup time **13. Warranty: 5 years comprehensive warranty with probes** **14. Country of Origin: USA / Europe / Japan**	
55.	**Gel warmer**	High quality	8
56.	**Pulse oximeter**	Massimo Neonatal=4 Pediatric =4	8
57.	**BP apparatus**	Cuff size neonatal Pediatric Adult	8
58.	**Diagnostic Ultrasound Trolley Mount, Colour Doppler for ICU**	**(Main Radiology Department)** 1) FDA Approved: Must be FDA approved 2) Warranty: Five Years comprehensive warranty including Probes, Printers, etc. 3) Display 21" LCD, Full HD (1920 X 1080) resolution 4) Touch Panel 10", min 5) Depth, max 30 Cm, minimum 6) Modes B, M, Color Doppler, Power Doppler, PW, CW, HPRF, THI, TDI, Differential –THI, Contrast Harmonic Imaging, etc. 7) Imaging Types: Convex, Linear, Sector, Dual, Duplex, Triplex, , Quick Scan Cardiac, Vascular, Micro Vascular Imaging Shearwave Elastography, 3D /4DV-Imaging Options, Advance Dynamic Flows, Panoramic View, Needle Enhancement, etc.	2

		8) Image Processing: Fully Digital Transmission and reception processing, High Spatial & Temporal Resolution, Speckle Reduction, High Frame Rate, large Cine Memory and capacity, etc. 9) Probe (Multi-Frequency/Broadband) i) Convex Probe (3-6 MHz), nominal ii) Linear Probe, Wide, (8-18 MH nominal iii) Linear Probe, Hockey-Stick (8-MHz nominal iv) Sector Array Adult (3-6 MHz), nominal v) Sector Array Pediatric (4-8 MHz), nominal 10) Active Probe Connector Four 11) Application Cardiac, Vascular, Peripheral Vascular, General Abdominal, Renal, Urology, Liver, Thyroid, Musculoskeletal, etc. 12) Measurements Cardiac, Vascular, All general abdominal (Distance, Area, Angle, Mass, etc.), Volume, Circumference, Doppler, Flow, Renal, Urology, Liver, etc. 13) Image Presets Factory Default + Multi-user 14) Image Storage: Hard Disk (500 GB or more), CD, DVD, USB, etc. 15) DICOM compatibility With Permanent License for Full DICOM connectivitywith PACS /HIS and Print, Store, Send, Retrieve, Query, Work List functions, etc. 16) Connectivity: LAN, Ethernet 17) B/W Video Printer, Sony: Required with each machine 18) Internal Battery: 120-Minute scanning Time, nominal 19) Power Supply: 220VAC, 50Hz **Miscellaneous Service Terms and Conditions.**	

		1) The supplied equipment should be FDA approved 2) **5 years' warranty backed by principal** with 95% uptime from the date of Handing over for complete system and its associated components/ accessories including Ultrasound Probes must be confirmed. Replacement must be with original brand new parts. 3) The quoted equipment must have minimum useful life 10 years with service and spare parts support. 4) Vendor will perform Installation, testing, commissioning and user's training of the supplied equipment. 5) Onsite transportation/rigging for installation will be vendor's responsibility. 6) Post warranty Per Year maintenance contract price of equipment in USD (From 6^{th} to 10^{th} year) with labor and spare parts of all system components including ultrasound probes should be mentioned in the offer. The price of Ultrasound Probes (in USD) with a validity of 10 years should also be mentioned separately. 7) All documentation (hard & soft version) including user manuals, Comprehensive service manuals including Description, Circuit Diagram, Block Diagram, Installation, Calibration, Trouble-shooting, Error Code List, Parts List, quality control devices, etc. should be supplied along-with the equipment. 8) Vendor shall arrange onsite technical training for Biomedical Engineers of SIUT. 9) All system and application software must have permanent valid licenses. 10) Vendor shall be responsible to provide all user & Service Keys and Passwords to Biomedical Engineering for the life of the equipment. 11) All backup software (CD/DVDs) set must be supplied with the equipment.	

		12) In case of distributors, vendor shall submit a certificate of distribution rights from their respective principals along with an undertaking from **Principal** that in case of change in distribution rights, Principal will be liable to fulfill all the commitments pertaining to this project. 13) Vendor shall supply a list of installed volumes of similar equipment and the details of technical service setup in Karachi. 14) Detailed list of engineering staff, qualified and trained on the similar equipment along with the training certificates is to be attached with the offer. 15) The relevant documents showing FDA/CE compliance for quoted equipment should be attached. 16) Annex- A is an integral part of this tender, vendor must fill all the fields of Annex-A and submit the same along with the offer on their official letter head.	
59.	**Cell Saver (Intraoperative Auto transfusion System)**	**1. General Requirements** o Suitable for adult, pediatric, and neonatal patients. o CE/FDA-approved device. **2. Technical Specifications** o **Flow Rate:** Capable of processing blood above 500 ml/min-at ≥ 800 ml/min. o **Collection Reservoir:** ≥ 1-liter capacity with integrated filter. o **Hematocrit:** Final hematocrit level ≥ 50%. **3. Pump System** o Peristaltic pump with adjustable flow rates. o Kink-resistant tubing system. **4. Filtration & Washing** o High-efficiency filtration to remove micro-aggregates and debris. o Saline wash cycle with adjustable volume settings. **5. Patient Monitoring** o Continuous display of collection volume, wash cycle status, and hematocrit.	**1**

		○ Real-time alarms for low blood flow filter blockages, or system failure. **6. Portability** ○ Lightweight design with mobile trolley/cart and lockable wheels. **7. Power Supply & Backup** ○ 220–240V AC, 50–60 Hz input. ○ Minimum 30-minute battery backup. **8. Safety Features** ○ Automatic air detection and removal. ○ Overflow protection and emergency stop function. **9. Data Storage & Connectivity** ○ USB or network connectivity for data export. ○ Integrated memory for 24-hour data storage. **10. Accessories** ○ Complete tubing set, collection reservoirs, and saline bags. ○ Disposable filters and sterile kits.	
60.	**Activated Clotting Time (ACT) Machine**	1. **General Requirements** ○ Portable, user-friendly ACT machine for point-of-care use. ○ CE/FDA-approved. 2. **Technical Specifications** ○ Measurement range: 60–1000+ seconds. ○ Sample volume: ≤ 1 ml. ○ Results available in ≤ 90 seconds. 3. **Display & Monitoring** ○ Digital display with real-time countdown. ○ Visual and audible alerts for high/low ACT values. 4. **Power Supply** ○ Battery and mains operation (220–240V AC). ○ Minimum 8-hour battery backup. 5. **Data Management** ○ USB/network connectivity for data transfer. ○ Integrated memory for storing ≥ 200 test results. 6. **Safety & Calibration** ○ Automatic calibration with built-in QC functions.	**2**

		○ Single-use, pre-filled test cartridges. 7. **Portability** ○ Compact, lightweight, and durable. 8. **Accessories** ○ Starter kit with test cartridges, control solutions, and user manual.	
61.	**Thromboelastography (TEG) System**	1. **General Requirements** ○ Fully automated, user-friendly TEG system for real-time coagulation monitoring. ○ CE/FDA-approved device. 2. **Technical Specifications** ○ **Testing Capability:** Assesss coagulation from clot formation to fibrinolysis. ○ **Parameters Measured:** ▪ R-time (reaction time), K-time (clot formation), Alpha angle (clot strength), Maximum Amplitude (MA), and LY30 (fibrinolysis). ○ **Sample Volume:** ≤ 1 ml of whole blood. ○ **Time to Result:** ≤ 10 minutes per test. 3. **Display & Monitoring** ○ **Real-time results:** Graphical display with easy-to-read coagulation curves. ○ **Alarms/Alerts:** Visual and audible alarms for critical values. 4. **Power Supply** ○ AC power (220–240V, 50–60Hz) and battery-operated for portability. ○ Minimum 4-hour battery backup for emergency use. 5. **Data Management & Connectivity** ○ USB or network connection for data export to hospital information systems (HIS). ○ Data storage for up to 500 test results. 6. **Sample Processing** ○ Single-use, disposable test cups for ease of use and hygiene. ○ Automated sample mixing and analysis. 7. **Portability** ○ Compact, mobile design with an integrated cart and locking wheels for ease of transport.	**1**

		8. **Safety & Calibration** o Automatic calibration and self-checks for reliable results. o Built-in quality control and internal validation systems. 9. **Accessories** o Complete test kits with cups, reagents, and calibrators. o User manual, calibration solutions, and training materials.	
62.	**Intra-Aortic Balloon Pump (IABP)**	**1. General Requirements** • Portable IABP system for adult and pediatric use. • CE/FDA-approved device. **2. Technical Specifications** • **Operating Modes:** o Automatic, Semi-automatic, and Manual. • **Triggering Modes:** o ECG, pressure, and internal/external triggers. • **Deflation Timing:** o Auto-calibration with manual override. **3. Balloon Inflation and Control** • Rapid inflation/deflation for optimal diastolic augmentation. • Helium-based inflation for fast response. • Auto-fill helium reservoir with low-level alarm. **4. Patient Monitoring & Display** • **Display Parameters:** o Real-time ECG and aortic pressure waveforms. o Balloon inflation timing, heart rate, MAP, augmented pressure. • **Alarms:** o Low/no augmentation, arrhythmias, gas leaks, system failure, helium depletion. **5. Balloon Catheter Compatibility** • Multiple sizes (25, 34, 40, 50 ml) and pediatric options (10–15 ml).	**2**

		• Radiopaque marker for positioning. • Dual-lumen design with kink-resistant tubing. **6. Battery Backup & Power** • Minimum 60-minute battery backup. • 220–240V AC, 50–60 Hz power input. • Automatic battery switching on power failure. **7. Portability** • Lightweight, compact design with mobile trolley/cart. • Locking wheels for transport stability. **8. Connectivity & Data Storage** • USB/network connectivity for data export. • Integrated 24-hour data storage. • Optional connection to hospital information systems (HIS). **9. Safety Features** • Gas-leak detection with automatic system shutdown. • Automatic helium purge during catheter exchange. • User-lockout feature to prevent accidental changes. **10. Accessories** • Complete balloon catheter set (adult & pediatric). • 2 spare helium tanks. • Patient cables and pressure tubing sets.	
63.	**IV FLUID OR IRRIGATION WARMER MACHINE**	• **Temperature Range:** 37°C to 42°C • **Heating Capacity:** 2-4 liters per hour • **Display:** Digital temperature display • **Safety Features:** Overheating protection, alarms for temperature deviations • **Compatibility:** IV bags and irrigation solutions	8

Tender No. 501

Supply of Medical Equipment for Division of Cardiothoracic Sciences – SIUT Mariyam Basheer Dawood Children & Cardiac Hospital

[FORM: G] TECHNICAL SCHEDULE

PRODUCT GENERAL INFORMATION								To be filled by Technical Committee								To be filled by Finance								
1	2	3	4	5	6	7	8	1	2	3	6	7	8	10	9	11	12	13	14	15	16	17	18	19
S.No	Tender Item Code	Name of Item	Supplier Name	Brand Name	Manufacturer	Required Quantity	UOM	a) Offered Item/sample fully compliant with the required specifications = 40 Points b) Offered Item/sample compliant with minor deviation ≤ 10% from the required specifications and quality = 25 Points c) Major deviation(s) from Tender Specification or substandard Sample = 0 Points	Original Brochure or Catalogue (Attach evidence)	Accredited by WHO, US-FDA, EMA, MHRA, TGA, PMDA, Swiss Medic or Health Canada or by the SRA's (Attach relevant documents duly attested by senior executive)	Valid Agency/Distribution certificate from the Manufacturer – Attach evidence (where applicable).	Current Good Manufacturing Practices (CGMP) certificate.(Attach evidence)	B- Market Business Experience No of Years (Attach evidence) (i) 1 year = Points 3 (ii) 2-4 years = Points 7 (iii) 5 or more years = points 10.	Past Performance of the Bidder. The firm will attach purchase orders along with relevant delivery challan of any Government/Semi Government/Teaching Hospitals A. No of Hospitals (Attach evidence) (i) 1 = points 3, (ii) 2-4 = points 7, (iii) 5 or more = points 10.	Total Marks	SECP Incorporation Certificate (Attach evidence)	Bidder's Website	ISO certificate 9001 (Attach evidence)	Bank Certificate (Attach evidence)	Bank statement of Last year (Attach evidence)	Financial soundness : Turnover (Sales) 2020-2021 Above 400 Million 05 Marks 100 Million up to 400 Million 03 Marks Up to 100 million 02 Marks (Attach evidence)	Income Tax Return – Attach evidence copy.	Audited Financial Statement for last two years- Attach evidence/copy.	Total Marks
								Pl do not fill this column	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention No of years of supply experience of quoted items and Page No of attached evidence*	*Pl mention No of Hospitals for supply of quoted item and Page No of Attached evidence*		*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Web Address & page no of attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention sales in million and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	*Pl mention Yes/No and Page No. of Attached evidence*	
Marks								40	3	8	3	3	10	10	67	3	2	3	2	2	5	3	3	100

For Example

No		Medical Equipment for Division of Cardiothoracic Sciences	xvy	xyz	xyz	1	Nos	1	Blank	Yes, P # 24	Yes, P # 25	Yes, P # 26	Yes P # 28	3 years P # 18	2 Hospitals P # 10		www.xyz.com P # 13	Yes, P # 4	Yes, P # 5	Yes, P # 2	Rs.400 Million P # 16	Yes, P # 4	Yes, P # 5	
1	MEC-01	**BLOOD GAS ANALYZER** **For detail specification Please see Page # 30-31**				4	Nos		-									-						
2	MEC-02	**DEFIBRILLATORS** **For detail specification Please see Page # 321-32**				6	Nos																	
3	MEC-03	**TEMPORARY EXTERNAL PACEMAKER (DUAL CHAMBER)** **For detail specification Please see Page # 32**				8	Nos																	
4	MEC-04	**VENTILATORS (CONVENTIONAL = 8 AND HFO = 2)** **For detail specification Please see Page # 33-35**				10	Nos																	
5	MEC-05	**HI-FLOW NON-INVASIVE VENTILATION SYSTEM WITH CIRCUITS AND VARIOUS TYPES OF NASAL CANNULAE** **For detail specification Please see Page # 35**				10	Nos																	
6	MEC-06	**BIPAP NON-INVASIVE VENTILATION SYSTEM** **For detail specification Please see Page # 35-36**				4	Nos																	
7	MEC-07	**HEART LUNG MACHINE** **For detail specification Please see Page # 36**				1	Nos																	
8	MEC-08	**HEATER-COOLER SYSTEM** **For detail specification Please see Page # 36**				1	Nos																	
9	MEC-09	**CEREBRAL OXIMETER** **For detail specification Please see Page # 37**				2	Nos																	
10	MEC-10	**BIOMEDICAL REFRIGIRATOR** **For detail specification Please see Page # 37**				4	Nos																	
11	MEC-11	**PATIENT MONITORS (22) INCLUDING CENTRAL CONTROL SYSTEM/STATION (4)** **For detail specification Please see Page # 37-42**				26	Nos																	
12	MEC-12	**MEDIUM END PATIENT BEDSIDE MONITORS** **For detail specification Please see Page # 42**				10	Nos																	
13	MEC-13	**SMALLER TRANSPORT MONITORS** **For detail specification Please see Page # 42-43**				2	Nos																	

PRODUCT GENERAL INFORMATION									To be filled by Technical Committee								To be filled by Finance								
14	MEC-14	CENTRAL CONTRAL SYSTEM/STATION For detail specification Please see Page # 43				4	Nos																		
15	MEC-15	AMBULATORY BLOOD PRESSURE MONITORS For detail specification Please see Page # 43				5	Nos																		
16	MEC-16	AMBULATORY HOLTER MONITORS For detail specification Please see Page # 43				5	Nos																		
17	MEC-17	PATIENT WARMING MACHINE WITH FULL BODY BLANKET (PATIENTS WARMERS) For detail specification Please see Page # 43				10	Nos																		
18	MEC-18	PATIENT COOLING/WARMING MACHINE/SYSTEM WITH FULL BODY BLANKETS/COOLING PADS AND KITS (FOR COOLING AND WARMING PATIENTS) For detail specification Please see Page # 44				5	Nos																		
19	MEC-19	PORTABLE OPERATING ROOM/SURGICAL LIGHT For detail specification Please see Page # 44				2	Nos																		
20	MEC-20	SYRINGE PUMP For detail specification Please see Page # 44-48				50	Nos																		
21	MEC-21	INFUSION PUMPS For detail specification Please see Page # 48-49				50	Nos																		
22	MEC-22	SUCTION MACHINE For detail specification Please see Page # 49				2	Nos																		
23	MEC-23	LARYNGOSCOPE SETS For detail specification Please see Page # 49				4	Nos																		
24	MEC-24	BLOOD WARMERS/INFUSERS For detail specification Please see Page # 49				10	Nos																		
25	MEC-25	INEONATE/NFANT RADIENT WARMER For detail specification Please see Page # 49				4	Nos																		
26	MEC-26	NEONATE/INFANT INCUBATOR For detail specification Please see Page # 49-50				4	Nos																		
27	MEC-27	DIATHERMY WITH COMPLETE ACCESSORIES For detail specification Please see Page # 50				2	Nos																		
28	MEC-28	ECG MACHINES For detail specification Please see Page # 50				4	Nos																		
29	MEC-29	WEIGHT MACHINE WITH HEIGHT ROD For detail specification Please see Page # 50				6	Nos																		
30	MEC-30	INFANT WEIGHT SCALES For detail specification Please see Page # 50				4	Nos																		
31	MEC-31	BLOOD PRESSURE WITH SPO2 MACHINES (DYNAMAP) For detail specification Please see Page # 50-51				6	Nos																		
32	MEC-32	ELECTRIC SHAVER WITH CHARGER (SURGICAL CLIPPERS) For detail specification Please see Page # 51				1	No																		
33	MEC-33	ICE SLUSH MACHINE (SURGICAL ICE MAKER) For detail specification Please see Page # 51				2	No																		
34	MEC-34	ANESTHESIA MACHINE For detail specification Please see Page # 51-52				5	Nos																		
35	MEC-35	AIR MATTERS For detail specification Please see Page # 52				30	Nos																		
36	MEC-36	Air purifier For detail specification Please see Page # 52				5	Nos																		
37	MEC-37	TCP machine For detail specification Please see Page # 52				2	No																		
38	MEC-38	OET Cuff Manometer For detail specification Please see Page # 52				5	Nos																		
39	MEC-39	Phototherapy Penta light For detail specification Please see Page # 52				5	Nos																		

PRODUCT GENERAL INFORMATION									To be filled by Technical Committee								To be filled by Finance								
40	MEC-40	TWICH MONITOR For detail specification Please see Page # 52				2	Nos																		
41	MEC-41	Transluminator For detail specification Please see Page # 52				2	Nos																		
42	MEC-42	Bottle sterilizer For detail specification Please see Page # 52				2	Nos																		
43	MEC-43	Steam inhalation machine For detail specification Please see Page # 52				3	Nos																		
44	MEC-44	Nebulizer machine Compressor For detail specification Please see Page # 52				5	Nos																		
45	MEC-45	Percussor Neonate/Pediatric For detail specification Please see Page # 52				2	Nos																		
46	MEC-46	Percussor Adult For detail specification Please see Page # 52				2	Nos																		
47	MEC-47	Blood Product Weight machine For detail specification Please see Page # 52				2	Nos																		
48	MEC-48	IO/Intra ocius Gunn with all asecories For detail specification Please see Page # 52				2	Nos																		
49	MEC-49	Aerogen Nebulizer Machine For detail specification Please see Page # 52				2	Nos																		
50	MEC-50	Sillicon Jell pads (Head and Heals) For detail specification Please see Page # 52				10	each																		
51	MEC-51	Danger box For detail specification Please see Page # 52				40	Nos																		
52	MEC-52	Intraortic balloon pump with all necessary accessories For detail specification Please see Page # 52-54				2	Nos																		
53	MEC-53	Extracorporeal Membrane Oxygenation (ECMO) Machine For detail specification Please see Page # 54-56				2	Nos																		
54	MEC-54	Echocardiography machines For detail specification Please see Page # 56-65				4	Nos																		
55	MEC-55	Gel warmer For detail specification Please see Page # 65				8	Nos																		
56	MEC-56	Pulse oximeter For detail specification Please see Page # 65				8	Nos																		
57	MEC-57	BP apparatus For detail specification Please see Page # 65				8	Nos																		
58	MEC-58	Diagnostic Ultrasound Trolley Mount, Colour Doppler for ICU For detail specification Please see Page # 65-68				2	Nos																		
59	MEC-59	Cell Saver (Intraoperative Auto transfusion System) For detail specification Please see Page # 68-69				1	No																		
60	MEC-60	Activated Clotting Time (ACT) Machine For detail specification Please see Page # 69-70				2	Nos																		
61	MEC-61	Thromboelastography (TEG) System For detail specification Please see Page # 70-71				1	No																		
62	MEC-62	Intra-Aortic Balloon Pump (IABP) For detail specification Please see Page # 71-72				2	Nos																		
63	MEC-63	IV Fluid or Irrigation Warmer Machine For detail specification Please see Page # 72				8	Nos																		

QUALIFYING MARKS: 70%

Financial bids of only "Technically Responsive Bidders" will be opened.

Note:

i) If no evidance is attached for any technical specification mentioned above then the response will be considered as negative even if 'Yes' is given in the Bid Technical Schedule.

ii) The technical evaluation carried out by the Procurement Committee SIUT, Karachi will be final which will be assessed on technical aspect and clinical expirience basis of the Consultant (s) in the relevant speciality. In case no firm fulfills the scoring criteria, as final

iii) Hardcopy & softcopy of this Form-G is Mandatory.

iv) Items are to be supplied within 7 to 15 days from the date of Purchase Order, in case of imports by SIUT, items should be supplied within 45 days

[FORM: H]

Tender No. 501 Price Schedule

Supply of Medical Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT

Submission of Financial Bid

Note : Please read instruction at the end of this sheet before filling out this Schedule.

S. No	Item Code	Item Description	Company Name	Brand Name	Manufacturer	Required Quantity	U.O.M	Pack Size	Rate in PKR / Per Unit	Total Amount in (PKR)	C&F Rate	Foreign Currency	Conversion Rate must be entered	Total Amount C&F	Earnest Money @ 1% of Bid Amount	Delivery Schedule	Remarks (if any)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	MEC-01	BLOOD GAS ANALYZER For detail specification Please see Page # 30-31				4	Nos			-				-	0		
2	MEC-02	DEFIBRILLATORS For detail specification Please see Page # 321-32				6	Nos			-				-	0		
3	MEC-03	TEMPORARY EXTERNAL PACEMAKER (DUAL CHAMBER)				8	Nos			-				-	0		
4	MEC-04	VENTILATORS (CONVENTIONAL = 8 AND HFO = 2)				10	Nos			-				-	0		
5	MEC-05	HI-FLOW NON-INVASIVE VENTILATION SYSTEM WITH CIRCUITS AND VARIOUS TYPES OF NASAL CANNULAE				10	Nos			-				-	0		
6	MEC-06	BIPAP NON-INVASIVE VENTILATION SYSTEM				4	Nos			-				-	0		
7	MEC-07	HEART LUNG MACHINE				1	Nos			-				-	0		
8	MEC-08	HEATER-COOLER SYSTEM				1	Nos			-				-	0		
9	MEC-09	CEREBRAL OXIMETER				2	Nos			-				-	0		
10	MEC-10	BIOMEDICAL REFRIGIRATOR				4	Nos			-				-	0		
11	MEC-11	PATIENT MONITORS INCLUDING CENTRAL CONTROL SYSTEM/STATION				10	Nos			-				-	0		
12	MEC-12	MEDIUM END PATIENT BEDSIDE MONITORS				10	Nos			-				-	0		
13	MEC-13	SMALLER TRANSPORT MONITORS				2	Nos			-				-	0		
14	MEC-14	CENTRAL CONTRAL SYSTEM/STATION				4	Nos			-				-	0		
15	MEC-15	AMBULATORY BLOOD PRESSURE MONITORS				5	Nos			-				-	0		
16	MEC-16	AMBULATORY HOLTER MONITORS				5	Nos			-				-	0		
17	MEC-17	PATIENT WARMING MACHINE WITH FULL BODY BLANKET (PATIENTS WARMERS)				10	Nos			-				-	0		
18	MEC-18	PATIENT COOLING/WARMING MACHINE/SYSTEM WITH FULL BODY BLANKETS/COOLING PADS AND KITS (FOR COOLING AND WARMING PATIENTS)				5	Nos			-				-	0		

[FORM: H]

Tender No. 501 Price Schedule

Supply of Medical Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT

Submission of Financial Bid

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S. No	Item Code	Item Description	Company Name	Brand Name	Manufacturer	Required Quantity	U.O.M	Pack Size	Rate in PKR / Per Unit	Total Amount in (PKR)	C&F Rate	Foreign Currency	Conversion Rate must be entered	Total Amount C&F	Earnest Money @ 1% of Bid Amount	Delivery Schedule	Remarks (if any)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
19	MEC-19	PORTABLE OPERATING ROOM/SURGICAL LIGHT				2	Nos			-				-	0		
20	MEC-20	SYRINGE PUMP				50	Nos			-				-	0		
21	MEC-21	INFUSION PUMPS				50	Nos			-				-	0		
22	MEC-22	SUCTION MACHINE				2	Nos			-				-	0		
23	MEC-23	LARYNGOSCOPE SETS				4	Nos			-				-	0		
24	MEC-24	BLOOD WARMERS/INFUSERS				10	Nos			-				-	0		
25	MEC-25	INEONATE/NFANT RADIENT WARMER				4	Nos			-				-	0		
26	MEC-26	NEONATE/INFANT INCUBATOR				4	Nos			-				-	0		
27	MEC-27	DIATHERMY WITH COMPLETE ACCESSORIES				2	Nos			-				-	0		
28	MEC-28	ECG MACHINES				4	Nos			-				-	0		
29	MEC-29	WEIGHT MACHINE WITH HEIGHT ROD				6	Nos			-				-	0		
30	MEC-30	INFANT WEIGHT SCALES				4	Nos			-				-	0		
31	MEC-31	BLOOD PRESSURE WITH SPO2 MACHINES (DYNAMAP)				6	Nos			-				-	0		
32	MEC-32	ELECTRIC SHAVER WITH CHARGER (SURGICAL CLIPPERS)				1	No			-				-	0		
33	MEC-33	ICE SLUSH MACHINE (SURGICAL ICE MAKER)				2	No			-				-	0		
34	MEC-34	ANESTHESIA MACHINE				5	Nos			-				-	0		
35	MEC-35	AIR MATTERS				30	Nos			-				-	0		
36	MEC-36	Air purifier				5	Nos			-				-	0		

[FORM: H]

Tender No. 501 Price Schedule

Supply of Medical Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT

Submission of Financial Bid

Note : Please read instruction at the end of this sheet before filling out this Schedule.

S. No	Item Code	Item Description	Company Name	Brand Name	Manufacturer	Required Quantity	U.O.M	Pack Size	Rate in PKR / Per Unit	Total Amount in (PKR)	C&F Rate	Foreign Currency	Conversion Rate must be entered	Total Amount C&F	Earnest Money @ 1% of Bid Amount	Delivery Schedule	Remarks (if any)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
37	MEC-37	TCP machine				2	No			-				-	0		
38	MEC-38	OET Cuff Manometer				5	Nos			-				-	0		
39	MEC-39	Phototherapy Penta light				5	Nos			-				-	0		
40	MEC-40	TWICH MONITOR				2	Nos			-				-	0		
41	MEC-41	Transluminator				2	Nos			-				-	0		
42	MEC-42	Bottle sterilizer				2	Nos			-				-	0		
43	MEC-43	Steam inhalation machine				3	Nos			-				-	0		
44	MEC-44	Nebulizer machine Compressor				5	Nos			-				-	0		
45	MEC-45	Percussor Neonate/Pediatric				2	Nos			-				-	0		
46	MEC-46	Percussor Adult				2	Nos			-				-	0		
47	MEC-47	Blood Product Weight machine				2	Nos			-				-	0		
48	MEC-48	IO/Intra ocius Gunn with all asecories				2	Nos			-				-	0		
49	MEC-49	Aerogen Nebulizer Machine				2	Nos			-				-	0		
50	MEC-50	Sillicon Gell pads (Head and Heals)				10	each			-				-	0		
51	MEC-51	Danger box				40	Nos			-				-	0		
52	MEC-52	Intraortic balloon pump with all necessary accessories				2	Nos			-				-	0		
53	MEC-53	Extracorporeal Membrane Oxygenation (ECMO) Machine				2	Nos			-				-	0		
54	MEC-54	Echocardiography machines				4	Nos			-				-	0		

[FORM: H]

Tender No. 501 Price Schedule

Supply of Medical Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT

Submission of Financial Bid

Note : Please read instruction at the end of this sheet before filling out this Schedule.

S. No	Item Code	Item Description	Company Name	Brand Name	Manufacturer	Required Quantity	U.O.M	Pack Size	Rate in PKR / Per Unit	Total Amount in (PKR)	C&F Rate	Foreign Currency	Conversion Rate must be entered	Total Amount C&F	Earnest Money @ 1% of Bid Amount	Delivery Schedule	Remarks (if any)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
55	MEC-55	Gel warmer				8	Nos			-				-	0		
56	MEC-56	Pulse oximeter				8	Nos										
57	MEC-57	BP apparatus				8	Nos										
58	MEC-58	Diagnostic Ultrasound Trolley Mount, Colour Doppler for ICU				2	Nos										
59	MEC-59	Cell Saver (Intraoperative Auto transfusion System)				1	No										
60	MEC-60	Activated Clotting Time (ACT) Machine				2	Nos										
61	MEC-61	Thromboelastography (TEG) System				1	No										
62	MEC-62	Intra-Aortic Balloon Pump (IABP)				2	Nos										
63	MEC-63	IV Fluid or Irrigation Warmer Machine				8	Nos										
		Grand Total								-					0		

INSTRUCTIONS

Following Content should not be altered:

- **A** Serial No.
- **B** Item Code
- **C** Item Description
- **G** Required Quantity.
- **H** Insert Unit of measurement

Following Content should be inserted as described: -

- **D** Insert Company Name, which should be according to tax registration record.
- **E** Insert Brand Name of Item -
- **F** Insert Name of Manufacturer.
- **I** Insert Pack size of Item i.e. 1 / 10 / 12 (Number of item in each pack).
- **J** Insert Rate in Pak Rupees, single unit only.
- **K** Sheet will calculate by itself.
- **L** Insert C&F Rate , single unit only.
- **M** Insert Currency of FCY (e.g. USD, CHF, EURO, JPY, SGD, etc)
- **N** Insert Conversion Rate (Exchange rate should be of 7 working day prior to the opening date of Bid).
- **O** Sheet will calculate by itself.
- **P** Sheet will calculate by itself.
- **Q** Insert Delivery Schedule
- **R** Insert Remarks if any

- **i)** In case of alternate item kindly write required details at the end of the last columns in the same row and don't change the Item Code mentioned in Tender Specification.
- **ii)** Data should be input in Text and number formate only.
- **iii)** No cell should be merged.

[FORM: H]

Tender No. 501 Price Schedule

Supply of Medical Equipment for Cardiology Section of Mariyam Basheer Dawood Children & Cardiac Hospital - SIUT

Submission of Financial Bid

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S. No	Item Code	Item Description	Company Name	Brand Name	Manufacturer	Required Quantity	U.O.M	Pack Size	Rate in PKR / Per Unit	Total Amount in (PKR)	C&F Rate	Foreign Currency	Conversion Rate must be entered	Total Amount C&F	Earnest Money @ 1% of Bid Amount	Delivery Schedule	Remarks (if any)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R

Note : - Data must be filled in all columns except A, B ,C, G, H, K, O & P. please do not create your own file rather fill this sheet as provided by SIUT.