STANDARD BIDDING DOCUMENT



GOVERNMENT OF SINDH

SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI

TENDER NAME:

PROCUREMENT OF MACHINERY & EQUIPMENT WITH SUPPLY, INSTALLATION, TESTING & COMMISSIONING

TENDER REFERENCE#

PROC/SMBBIT/(P&M-01)/2023-24

NOTE:

1. TENDER FEE: RS. 10,000/-(NON-REFUNDABLE) IN SHAPE OF PAY ORDER IN FAVOR OF SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF TRAUMA, KARACHI.

- 2. ALL THE PARTICIPANTS MUST BE SIGNED EACH & EVERY PAGE OF BID DOCUMENTS, ELSE OFFER WILL BEREJECTED.
- 3. NO TENDER WILL BE ACCEPTED AFTER CLOSING OF THE TENDER BOX, WHAT SO EVER REASON MAY BE.

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BIDDING DATA SHEET

	DATA DILLET
Procuring Agency	SMBB Institute of Trauma (SMBB-IT)
Address	Chand Bibi Road, Karachi
Name of Tender	Procurement of Machinery & Equipment with Supply, Installation, Testing & Commissioning
Bid Validity	90 Days, as per SPPRA Rule 2010 (Amended till date)
Amount of Bid Security	5% of Total Bid Quoted Price
Amount of Performance Security	10% of Total Contract Price
Last date of Selling of Bid	As per Mentioned in NIT
Date of Submission of Bid	As per Mentioned in NIT
Place of Submission	13 th Floor, Planning and Procurement Department, SMBB Institute of Trauma, Karachi
Venue of Opening of Bid	12 th Floor Seminar Hall SMBB Institute of Trauma, Karachi
Language of Bid	English
Bidding Procedure	Single Stage Two Envelope Procedure 46(2)
Advance Payment	Not Allowed / As per case
Period of Completion	As per ANNEX-C
Liquidity Damages	0.5% of the bid price per month after the period of Completion up to 10% maximum.
Inspection Authority	Nominated Inspection Committee of SMBB Institute of Trauma, Karachi.
Required Item Quality	All items will be procured on approved Specification basis.
Place of Delivery	Store Department of SMBB Institute of Trauma, Karachi / Trauma Emergency Response Centre Larkana

INSTRUCTIONS TO BIDDERS (I.T.B)

- Shaheed Mohtarma Benazir Bhutto Institute of Trauma invites sealed bids from Manufacturers/ Importers/ Sole Agents/ Contractors for Procurement of Machinery & Equipment with Supply, Installation, Testing & Commissioning at Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi Tender Reference No: -PROC/SMBBIT/(P&M-01)/2023-24.
- 2. Bidding Procedure Single Stage Two Envelope Procedure 46(2) as per SPPRA rule amended till date;
 - i. A Bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
 - ii. Envelopes shall be marked as **—FINANCIAL PROPOSAL** and **TECHNICAL PROPOSAL** in bold and legible letters to avoid confusion;
 - iii. Initially, only the envelope marked —TECHNICAL PROPOSAL shall be opened;
 - iv. Envelope marked as **—FINANCIAL PROPOSAL** shall be retained in the custody of the procuring agency without being opened;
 - v. Procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
 - vi. No amendments in the technical proposal shall be permitted during the technical evaluation;
 - vii. Financial proposals of technically qualified bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
 - viii. Financial proposal of bids found technically non-responsive shall be returned un- opened to the respective bidders; and Bid found to be the most advantageous bid shall be accepted.
- **3.** Bidders are required to check that Tender Documents issued to them are complete in all respects as per table of content.
- **4. LANGUAGE OF BID**: The bid prepared by the bidder, as well as all correspondence and documents relating to the bid exchanged by the bidder and the Procuring Agency shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case for purposes of interpretation of the Bid, the translated version shall prevail.
- **5.** Bidders should examine carefully the table of content. They should visit and inspect the site at their own expense and responsibility and obtain all necessary information prior to submitting the tender. Any detail / specification missing in the document should be obtained from Planning & Procurement Department before bidding. Once the tender is submitted, it will be assumed that no further clarification was required.
- **6.** The original bid shall be typed or written in indelible ink by the bidder or person duly authorized. The person or persons signing the bid shall initial all pages of the bid. The name and designation of each person signing must be mentioned below the signature.
- 7. 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 clarification to the bids that do not change substances of the bids.

- 8. The Procuring Agency may reject all bids or proposal at any time prior to the acceptance of a bid or proposal. The Procuring Agency upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposal, but is not required to justify those grounds.
- **9.** The quoted rates should include all costs of whatsoever description and expenses necessary for the whole work together with all risks, taxes, liabilities and obligations, specific or implied, in the Tender Documents. Arithmetical errors, if any shall be corrected and Tender price amended accordingly.
- **10.** No unauthorized alteration may be made in the Tender documents. If any such alteration is made, tender may be liable for rejection.
- 11. Clarification, revision, addition or deletion, in the tender documents may be made by the authority before the submission and opening of Tender in the form of Addendum/ Corrigendum. This will be made only by formal Addendum/ Corrigendum issued by the concerned authority and will become part of the contract documents. Each Addendum shall be signed by the Vendor and returned with other Tender documents.
- **12.** The entire Tender Documents, listed duly priced, signed & stamped on each page and completed must reach at designated place in due time and dates as defined in the Bidding Data of the Tender.
- **13.**Contractor who will win the tender will be required to enter into a Contract Agreement as defined in the Form of Agreement.
- **14.** All manufactured and other items should be used in the work in accordance with the instructions, specifications in the Tender Document and also in accordance with generally accepted norms of good workmanship.
- **15.** For the purpose of comparison of bids quoted in different currencies, price shall be converted into Pakistani Rupees. The rate of exchange shall be the selling rate prevailing seven working days before the date of opening of the bids, as notified by the National Bank of Pakistan (NBP) / State Bank of Pakistan (SBP).
- **16.** No bidder shall contact the Procuring agency on any matter relating to its bid, from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Procuring agency, it should do so in writing.
- **17.PROCURING AGENCY'S RIGHT TO VERY QUANTITIES** The Procuring Agency reserves the right to increase or decrease the quantity of stores originally specified in the Price Schedule and Schedule of Requirements without any change in unit price or other terms and conditions.
- **18.** The Procuring agency's evaluation of a bid will take into account, in addition to the bid price quoted, the following;
 - a) Incidental costs

- b) Delivery schedule offered in the bid;
- c) Deviations in payment schedule
- d) The cost of components, mandatory spare parts, and service
- e) The availability of spare parts and after-sales services for the equipment offered in the bid;
- f) The projected operating and maintenance costs during the life of the equipment; the performance and productivity of the equipment offered; and / or other specific criteria indicated in the Bid Data Sheet and / or in the Technical Specifications.

19. CORRUPT OR FRAUDULENT PRACTICES

- a) The Procuring Agency and the Bidders / Manufacturers / Contractors are expected to observe the highest standard of ethics during the procurement and execution of the Contract. In pursuance of this policy, the relevant terms / phrases as may apply are defined below: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in Contract execution; and "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a Contract to the detriment of the Procuring Agency, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial noncompetitive levels and to deprive the Procuring Agency of the benefits of free and open competition;
- b) The Procuring Agency will take all possible administrative / legal measures if it is found that the Bidder recommended for award was / is engaged in corrupt or fraudulent practice(s) before or after signing of the contract resulting into the conviction of the proprietor under criminal case besides blacklisting of the firm either indefinitely or for such period of time as may be determined by the Procuring Agency.
- c) Will declare a firm ineligible, either indefinitely or for a stated period of time, for the award of a Contract if it, at any time, determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a Contract.

SALIENT FEATURES / TERMS & CONDITION OF THE <u>TENDER</u>

1.	Name of Work & Address	•	Procurement of Machinery & Equipment with Supply, Installation, Testing & Commissioning at Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi Reference No: - PROC/SMBBIT/(P&M-01)/2023-24.
2.	Place of Issuance of Tender	:	Planning & Procurement Department, 13th FloorSMBB Institute of Trauma, Karachi.SPPRA & smbbit.gos.pk Website
3.	Tender Reference #	:	PROC/SMBBIT/(P&M-01)/2023-24.
4.	Method of opening of Tender	:	It will be Single Stage Two Envelope 46(2) basis as per SPPRA Rules 2010 (Amended till date).
5.	Venue of submission	:	Planning & Procurement Department situated at 13 th Floor of SMBB Institute of Trauma, Karachi.
a.	Opening of Tenders	:	Seminar Hall situated at 12 th Floor of SMBB Institute of Trauma, Karachi.
6.	Date of Opening of Financial Proposals	:	As informed by Procurement Committee to all participants
7.	Validity of Tenders	:	90 days as per SPPRA Rules, 2010 (Amended till Date).
8.	Amount of Bid Security	:	5% of the Total Quoted amount in shape of pay-order / Demand draft from any schedule bank to be submitted along with Financial Proposal & a copy should be attached in Technical Proposal without showing the Amount (else the offer will be rejected).
9.	Bid Currencies	:	Prices shall be quoted in PKR on Deliver duty paid (D.D.P) basis.
10.	Supply of Equipment	:	As mentioned in Schedule of Requirement Annex-C.
11.	Installation Period	:	It will start after receiving of equipment at site.

10	Wannanty & Maintanance Daviad		Warranty & Maintananaa namiad abarreld be start for a the
12.	Warranty & Maintenance Period	:	Warranty & Maintenance period should be start from the date of Installation report which satisfactorily signed by end user / Biomedical engineer. (This period will remain functional till (mentioned in items individually).
13. (a)	Contract Agreement	:	The Bidder / Contractor shall enter & execute a formal Agreement as per the "Form" annexed with such modification as may be necessary.
(b)	Stamp Paper / duty requirement for Agreement.	:	Rs. @0.35% of the Contract Value or as prescribed by Government Laws.
14.	Terms of Payment to Contractors.		 Goods supplied on D.D.P: i. Payment shall be made in Pak Rupees. ii. The payment will be made to the Bidder within 30 days of the receipt of original delivery challan(s) and invoice(s) in duplicate duly completed in all respect and signed and stamped by the Chairman of the Inspection Committee. The Inspection Committee will prepare and submit a report of physical inspection with a certificate to the effect that the goods conform to the specifications laid down in the bidding documents.
15.	Insurance	:	The goods supplied under the Contract shall be delivered to the Procuring Agency after the payment of all taxes and customs duty, CESS, Octroi charges etc. Risk will be transferred to the Procuring Agency only After the delivery of these goods has been made to the Procuring Agency. Hence, payment of insurance premium, if any, shall be the responsibility of the Bidder.
16.	Release of Bid Security of 5%	:	To un-successful bidders, after work is awarded. Bid Security will be released to successful bidder after purchase order is released but after Security Deposit is deposited as per salient feature Sr.#18.
17.	Security Deposit / Performance Security	:	The successful bidder will have to deposit the requisite Performance security Bond in shape of Bank Guarantee (as per amount mentioned in bidding data sheet) This will be released as per salient feature Sr.#18.
18.	Release of Performance / Security Deposit of 10%	:	 5% of Partial Bank Guarantee will be released after the satisfactory supply and installation of the equipment. (Bidder will furnish Installation Certificate dully signed by authorized representative at the time of release of Bank Guarantee). 5% of Partial Bank Guarantee will be released after satisfactory completion of warranty / maintenance Period (mentioned in Items individually).

19.	Variation in Contract Price		Amount montion in Contract Agreement will provoil till
		•	Amount mention in Contract Agreement will prevail till execution and no variation in price shall be allowed on any ground including Currency Fluctuation/ Variation / Devaluation or whatsoever.
20.	Taxes	:	All taxes will be deducted as per prevalent laws of Country.
21.	Approved makes.	:	As mentioned in items individually.
22.	Special Note Regarding Equipment's	:	 Technical offers / Commercial offers failing to demonstrate below details would be rejected: a. Quoted system must be of advanced & latest version. b. Tender must cover complete equipment. c. Tender must cover complete range of disposables/ kits d. Tender must provide all technical details up to the satisfaction of the end user. e. Items should be quality approved from the concerned international body of the respective industry.
23. (a)	Inspection of Imported equipment manufacturing site by the client.	•	After the Award of Tender / Contract, Supplier shall take two persons to the manufacturing site and bear all expenses of visit in case the cost of Award of Tender / Contract is above 50Million .
(b)	Training		Supplier will provide on-site successful training to all the personnel working on / operating the said Equipment / Machine as long as the need prevail.
24.	Maintenance.	:	Maintenance cost for all items for Period (mentioned in items individually) from the date of successful Installation shall be undertaken by the Contractor (Maintenance includes all Parts & Labor, etc. with Sufficient staff, during maintenance period).
25.	Default in Preventive Maintenance, Breakdown and Emergency Calls.	:	 In case of default by the Contractor with respect to maintenance, break down and emergency calls, the same will be carried out within 24 hours by the Procuring Agency and the cost so incurred will be paid from the Retention Money. Moreover, an additional 10% of the amount spent would be charged from the concerned contractor being defaulter.
26.	Cost To Be Quoted In B.O.Q.	:	 The Contractors shall quote DDP price of the Equipment's including custom clearance etc. and delivering of Equipment at site with Installation & Commissioning cost. It should also include cost during maintenance period including the parts and maintenance staff.

27.	Tax Exemption.	:	Incase Purchase on C&F basis, the required Certificate will be issued by this office that the import has been made for this Institute, so as to avail the facility of exemption of duties / taxes, as per Government Rules / Policy according to the Sindh Public Procurement Rules, 2010 (Amended till date).
28.	Transportation	:	The Bidder shall arrange such transportation of the goods as is required to prevent them from damage or deterioration during transit to their final destination as indicated in the Schedule of Requirements. The goods shall be supplied on "D.D.P." Basis at the SMBB Institute of Trauma, Karachi. Miscellaneous charges on logistics, transportation, Insurance, clearing from sea port / airport will also be paid / bear by the contractor(s).
29.	Supply, Installation, Testing & Commissioning	:	Means all types works related to civil, furniture, plumbing, electrical, HVAC, UPS or etc. any type of work which is needed related to proper functioning of supplied equipment will completely responsibility of bidder / contractor. Bidder / Contractor shall visit & inspect the site at their own expense and obtain all necessary information prior to submitting the tender. Any detail or information required should be obtained from Planning & Procurement Department before bidding. Once the tender is submitted, it will be assumed that no further clarification was required.

TERMS & CONDITIONS OF TENDER

- a) Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi invites sealed bids on Single Stage Two Envelope Procedure as per clause 46(2) of Sindh Public Procurement Rules 2010 (Amended till date) from Interested Bidders for Procurement of Machinery & Equipment with Supply, Installation, Testing & Commissioning at SMBB Institute of Trauma, Karachi.
- b) Tender Fee in shape of pay order in favor of **SMBB Institute of Trauma, Karachi** must be attached; else the offer will be rejected.
- c) The registered Contractors / Suppliers / Manufacturers / Authorized Distributors should attach BID SECURITY (as per amount mentioned under Bidding Data) in shape of Bank Draft / Pay order issued from any scheduled Bank of Pakistan in favor of SMBB Institute of Trauma, Karachi in the financial proposal. However, copy of same should be attached in technical proposal without showing the amount failing so the offer will be rejected.
- d) PERFORMANCE SECURITY: The successful bidders will have to deposit the requisite Performance Security Bond in the shape of a Bank Guarantee in favor of SMBB Institute of Trauma, Karachi (as per mentioned in salient features of this bidding document point # 17). The same will be released after successful completion of contract period as per point# 18 of salient features.
- e) Bid should be dropped at Planning & Procurement Office,13thFloor, SMBB Institute of Trauma, Karachi by hand in due course of time and the same will be opened at Seminar Hall, 12th Floor, SMBB Institute of Trauma, Karachi.
- f) Bid / offer will be evaluated as per (Technical Evaluation Criteria Mandatory as Annex-A and (Technical Evaluation Criteria Marking as Annex-B) and also the bid's Terms & Conditions.
- g) Bid should be inclusive of all Government taxes (if applicable) and the same will be paid by the Contractor except withholding tax.
- h) The firm will be responsible for all supply of all awarded items to Store Department of SMBB Institute of Trauma, Karachi / Trauma Emergency Response Centre Larkana / As per supply order. If it fails, the Security Deposit will be forfeited.
- i) Procuring Agency shall disqualify a contractor, whether pre-qualified or not, if it finds at any time, that the information submitted by him concerning his qualification and professional, technical, financial, legal, or managerial competence as contractor was false and materially inaccurate or incomplete at any stage.

- j) The bid security will be forfeited to the Government, if the bidder withdraws his bid after opening and before the expiry of the bid validity period or fails to sign the contract in stipulated time if the bid is accepted.
- k) Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
- I) If bidder elects to submit alternate bid / proposal(s), the Bid Security shall be attached for higher bid amount; otherwise, both proposals / bids will be rejected.
- m) The Procuring Agency may reject all or any bid at any time prior to the acceptance of a bid or proposals, subject to the relevant provision of SPP Rules, 2010 (Amended till date).
- n) Bids shall remain valid for 90 days after the date of bid opening and same may be extended in terms of Rule 38 (2) (3) (4) of SPPRA Rules.
- o) No tender will be entertained without Security deposit. The Security deposit will be forfeited, in case of non-submission of Performance security within seven (7) days of receipt of letter of Acceptance.
- p) Bids submitted late due to any reason what so ever, shall not be considered and returned unopened to the bidder or his authorized representative.
- q) If the supplier fails to give supply and install within the stipulated period, liquidity charges will be imposed (as per amount mentioned in bidding data sheet).
- r) If the Supplier fails to deliver any or all of the Goods 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 Bidding Data of the delivered price of the delayed Goods or unperformed Services for each week or part thereof delay until actual delivery or performance, up to a maximum deduction of the percentage specified in Bidding Data. Once the maximum is reached, the Procuring agency may consider termination of the Contract.
- s) The quoted rates should be valid till **30th June 2024;** Orders will be placed as per requirement on receiving demand from the concern department of Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi.

- t) The bidders shall quote their full and final price both in figure and in words on free delivery basis to Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi.
- **u**) Distributor once nominated by the manufacturer / importer will be for the whole contract period and manufacturer / importer cannot change its distributor during the contract period in any case.
- v) The Procuring agency reserves the right at the time of contract award to increases / decrease & delete, the items / quantities of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.
- w) Quantities of tender items are on estimated basis and could vary according to the amount sanctioned, released and as per discretion of Procurement Committee.

I / We agree to above mentioned Terms & Conditions:

Name of Contractor:	Signature:	
CNIC#. (Copy must be attached):		
Full Address:		
1 un Address		
Company Stamp:		

GENERAL CONDITIONS OF CONTRACT (G.C.C)

- 1. **Definition:** 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 Bidder, 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 Bidder under the Contract for the full and proper performance of its Contractual obligations.
 - c) **Goods** means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Procuring Agency under the Contract.
 - d) Related Services means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance, printing of special instructions on the label and packing, design and logo of the Procuring Agency, transportation of goods up to the desired destinations and other such obligations of the Bidder covered under the Contract.
 - e) "GCC" mean the General Conditions of Contract contained in this section.
 - f) "SCC" means the Special Conditions of Contract.
 - g) "**The Procuring Agency**" means the Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi.
 - h) "The Bidder" means the individual or firm supplying the goods under this Contract.
 - i) "Day" means official working day excluding national holidays.
- **2. APPLICATION:** These General Conditions shall apply to the extent that they are not inconsistent with provisions of other parts of the Contract.
- **3. STANDARDS:** The goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications goods eligibility criteria.

4. USE OF CONTRACT DOCUMENTS AND INFORMATION:

- a) The Bidder shall not without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern; sample, or information furnished by or on behalf of the Procuring Agency in connection there with, to any person other than a person employed by the Bidder in the performance of the Contract. Disclosure to such employed person shall be made in confidence and shall extend only, as far as may be' necessary, to such performance and not further or otherwise.
- b) Any document, other than the Contract itself, shall remain the property of the Procuring Agency and shall be returned (all copies) on completion of the Bidder's performance under the Contract.
- c) The Bidder shall permit the Procuring Agency to inspect the Bidder's accounts and records relating to the performance of the Supplies.
- **5. PATENT RIGHTS:** The Bidder 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 or any part thereof in the country.
- 6. ENSURING STORAGE ARRANGEMENTS: To ensure storage arrangements for the

intended supplies, the Bidder shall inform the Procuring Agency at least two weeks prior to the arrival of the consignments at its store/warehouse. However, in case no space is available at its store/warehouse at the time of supply, the Procuring Agency shall, seven days prior to such a situation, inform the Bidder, in writing, of the possible time-frame of availability of space by which the supplies could be made. In case the Bidder abides by the given time frame, he will not be penalized for delay.

7. INSPECTIONS, TESTS AND TRAINING:

- a) The Procuring Agency or its representative shall have the right to inspect and/or test the goods to confirm their conformity to the Contract specifications at the cost payable by the Bidder.
- b) The Procuring Agency's right to inspect, test and, where necessary, reject the goods either at Bidder's premises or upon arrival at Procuring Agency's destinations shall in no way be limited or waived by reasons of the goods having previously been inspected, tested, and approved by the Procuring Agency or its representative prior to the goods shipment from the manufacturing point.
- c) Bidder shall provide the training to the designated staff of the SMBB Institute of Trauma, Karachi for the smooth operation of the equipment / instruments. Training plan should be attached with the offer.
- **8. DELIVERY AND DOCUMENTS:** The Bidder shall in accordance with the terms specified in the Schedule of Requirements make delivery of the goods.
- **9. INSURANCE:** The goods supplied under the Contract shall be delivered to the Procuring Agency after the payment of all taxes and customs duty, cess, octroi charges etc. Risk will be transferred to the Procuring Agency only after the delivery of these goods has been made to the Procuring Agency. Hence, payment of insurance premium, if any, shall be the responsibility of the Bidder.

10. TRANSPORTATION:

- a) The Bidder shall arrange such transportation of the goods as is required to prevent them from damage or deterioration during transit to their final destination as indicated in the Schedule of Requirements.
- b) The goods shall be supplied on "D.D.P" Basis at SMBB Institute of Trauma, Karachi / Trauma Emergency Response Centre Larkana / As per Supply order Store Department as per Schedule of Requirements on the risk and cost of the Bidder. Transportation including loading / unloading of goods shall be the responsibility of Bidder.
- **11. INCIDENTAL SERVICES:** The Bidder will be required to provide to the Procuring Agency incidental services the cost of which should be included in the total bid price.

12. WARRANTY / GUARANTEE:

- a) The term period of warranty / guarantee (mentioned in items specification individually) from the date on which the Stores have been put into operation and demonstrated to the Institute staff. In any case this period shall not exceed six months beyond the warranty expiration period from the date of taking-over of goods.
- b) During the period of warranty / guarantee, the Contractor shall remedy, at his / her expense, all defects in design, materials, and workmanship that may develop or are revealed under normal use of the goods upon receiving written notice from the Institute; the notice shall

indicate in what respect the goods are faulty.

- c) The previsions of this Clause include all the expenses that the Contractor may have to incur for delivery and installation of such replacement parts, material and equipment as are needed for satisfactory operation of the goods at the SMBB Institute of Trauma, Karachi premises.
- d) The contactor shall provide warranty / guarantee for supply of Machinery / Equipment etc. for at least 05 years (where applicable).
- e) The bidder shall separately quote the price of service contract inclusive of parts as well as excluding the parts for 5 years (post warranty / guarantee period) in term of %age for total contract value.
- f) In case of consumable items, kits, chemicals, films etc. the contractor shall remain responsible for specificity, efficacy & sensitivity with maximum period of expiry as much allowed by manufacturer.
- g) The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.
- **13. PAYMENT:** The method and conditions of payment to be made to the Bidder under the Contract are specified in **Salient Feature point # 14.**
- **14. ASSIGNMENT:** The Bidder shall not assign, in whole or in part, its obligations to perform to another party under this Contract, except with the Procuring Agency's prior written consent.
- **15. DELAYS IN THE BIDDER'S PERFORMANCE:** Delivery of the goods shall be made by the Bidder in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements
 - a) If at any time in the course of performance of the Contract, the Bidder encounters anything impeding timely delivery of the goods, he shall promptly notify the Procuring Agency in writing of the causes of delay and its likely duration. As soon as practicable, after receipt of the Bidder's notice, the Procuring Agency shall evaluate the situation and may, depending on merits of the situation, extend the Bidder's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the Parties by a supplementary Contract to be treated as an addendum to the original contract.
 - b) Any undue delay by the Bidder in the performance of its delivery obligations shall render it liable to the imposition of liquidated damages.
- 16. PENALTIES / LIQUIDATED DAMAGES: In case deliveries are not completed within the time frame specified in the schedule of requirements / contract, a Show Cause Notice will be served on the Bidder which will be following by cancellation of the Contract to the extent of non delivered portion of installments. No supplies will be accepted and the amount of Performance Guarantee / Security to the extent of non-delivered portion of supplies of relevant installments will be forfeited. If the firm fails to supply the whole installments, the entire amount of Performance Guarantee/Security will be forfeited to the Government Account and the firm will be blacklisted at least for two years for future participation in bids: The liquidated damage shall be 0.5 % per month or part thereof. The maximum amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the Procuring Agency shall rescind the contract, without

prejudice to other courses of action and remedies open to it.

- **17. TERMINATION FOR DEFAULT:** The Procuring Agency may, without prejudice to any other remedy for breach of Contract, by a written notice of default sent to the Bidder, terminate this Contract in whole or in part if:
 - a) the Bidder fails to deliver any or all installments of the goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency;
 - b) the Bidder fails to perform any other obligation(s) under the Contract to the satisfaction of the Procuring Agency; and
 - c) The Bidder, in the judgment of the Procuring Agency, has engaged itself in corrupt or fraudulent practices before or after executing the Contract.
- 18. FORCE MAJEURE: The Bidder shall not be liable for forfeiture of its Performance Guaranty/ Bid Security, or termination / blacklisting for default if and to the extent that this delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For the purposes of this Clause Force Majeure means an act of God or an event beyond the control of the Bidder and not involving the Bidder's fault or negligence directly or indirectly purporting to mal-planning, mismanagement and /or lack of foresight to handle the situation. Such events may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Bidder shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee, constituted for redressing grievances, will examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and will submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable' alternative means for performance not prevented by the Force Majeure event.
- **19. TERMINATION FOR INSOLVENCY:** The Procuring Agency may at any time terminate the Contract by giving written notice of one-month time to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In that event, termination will be without compensation to the Bidder, provided that such termination will not prejudice or affect any right or remedy which has accrued or will accrue thereafter to the Parties.

20. ARBITRATION AND RESOLUTION OF DISPUTES:

- a) The Procuring Agency and the Bidder shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the Contract.
- b) If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Bidder have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred to the Arbitrator for resolution through arbitration.
- c) In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration, the arbitrator to be appointed with the approval of the Institute's BOG. The decisions taken and/or award given by the sole arbitrator shall

be final and binding on the Parties.

21. PACKING:

- a) The Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. 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. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements.
- **22. 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 English.
- **23. APPLICABLE LAW:** This Contract shall be governed by the laws of Pakistan and the courts of Karachi Pakistan shall have exclusive jurisdiction.
- 24. Bidder offering radiology equipment failing under compliance with Pakistan Nuclear Regulatory Authority (PNRA) should be registered with the authority to install and commission. All expense / fees for PNRA for clearance of X-ray based equipment shall be borne by the supplier (where applicable).

I / We agree to above mentioned General condition of Contract (GCC):

Name of Contractor:	Signature:

CNIC#. (Copy must be attached): _____

Full Address: _____

Company Stamp: ______

(ANNEX-A) TECHNICAL EVALUATION CRITERIA (MANDATORY)

(Bidders are required to submit following documents in mentioned sequence with Proper Tagging)

	with Proper Tagging)		1
S. #	MANDATORY REQUIREMENTS	YES	NO
1.	 Compliance of Terms & Conditions / Instructions mentioned in the SBD, must submit the entire STANDARD BIDDING DOCUMENTS, duly signed & stamped on each page with Technical Proposal. 1. Attached authorized person CNIC copy. 2. Signed & stamped each and every page of Terms & Condition & all bidding documents. (If above points compliance not found offer will be rejected). 		
2.	Should be registered with Income Tax Department (Valid / Active NTN Certificate must be attached).		
3.	DRAP license showing importer of medical devices. (Where applicable)		
4.	Copy of Professional Tax 2023-24 (Attach Copy of Valid Certificate)		
5.	Copy of Registration Certificate of General Sales Tax. (Attach Copy of Valid Certificate).		
6.	PNRA Registration Certificate (Where Applicable)		
7.	Valid Copy of 2022-23 / 2023-24 Financial year paid Income tax and return		
8.	Audited Financial Statement (Last 3 Years)		
9.	Recent Bank Account Maintenance Certificate.		
10.	Submission of undertaking on legal valid and attested stamp paper that the firm is not blacklisted and litigated by any institute of Federal, Provincial Government or any Department / Agency / Organization / Autonomous body or Private Sector Organization anywhere in Pakistan (Undertaking should be as attached sample as per Table of Content Point # 16) (ANNEX-F)		
11.	Bidder already providing services at SMBB-IT , Karachi should obtain & attach a satisfactory performance certificate from competent authority of SMBB Institute of Trauma, Karachi (for the financial year in which the bidder last provided its services).		
12.	Copy of Pay order / Bank Draft of Bid security should be attached along With bidding document in Technical Proposal without showing the amount.		
13.	Soft Copy (USB) containing all documents and forms (In Excel / DOC format Only) (Soft copy in a CD or DVD is not acceptable.)		

Note:

Bidders NOT complying with any of the above eligibility mandatory requirement would be disqualified. All documentary evidence must be submitted along with the bids; no document will be acceptable after bid submission.

BID EVALUATION CRITERIA

- a. **THE BIDS SHALL BE EVALUATED ON MOST ADVANTAGEOUS BID BASIS** SPPRA Rule-2(x) amended till date.
- b. The bids which are not responsive to the **MANDATORY QUALIFICATION CRITERIA** provided at **Annexure-A** shall not be eligible for further Technical Evaluation.
- c. If a bidder elects to submit alternative bid without enclosing a separate tender purchased slip / pay order and Bid security of requisite amount in shape of pay order, bid form and valid Manufacturer Authorization, all such alternative bids will be rejected as non-responsive.
- d. The bids shall be evaluated and compared on ITEMIZED BASIS exclusively. Technical evaluation of the products will be assessed on the standards / specifications given at ANNEXURE
 E.
- e. **Bids are invited as per Single Stage Two Envelope Procedure** in accordance with sub rule 2 of rule 46 of the Sindh Public Procurement Rules, 2010 (Amended till Date). In case, any bidder encloses the financial bid within the technical bid, the same shall be rejected summarily.
- f. The following merit point system for weighing evaluation factors / criteria will be applied for technical bids / proposals. Bidders achieving **minimum 70% marks** will be qualified and considered only for further process / evaluation besides compliance of all mandatory clauses. Documentary evidence must be attached in support of your claim.
- g. Technically qualified/successful bidder(s) shall be eligible for Financial Proposal(s). The Financial bids shall be opened in the presence of the Bidders at the scheduled date, time and venue communicated in advance.
- h. Financial Bids of Proposals of Technically disqualified / rejected bidders will not be opened for financial bid and sealed envelope shall be returned to the bidder.
- i. Bids not accompanied by the Bid Security of required amount in the form of pay order shall be rejected.
- j. The technical evaluation carried out by the Procurement Committee, SMBB Institute of Trauma, Karachi will be final, which will be assessed on experience basis of the Consultant(s) in the relevant specialty.
- k. Procuring Agency shall not be responsible for any erroneous calculation of taxes and all differences arising out shall be fully borne by the Successful Bidder.
- 1. Marks obtained in the detailed technical evaluation will be carried forward band prorated. Tender will be awarded to the Responding Organization with maximum accumulative points (**Technical Score + Financial Score**).
- m. The formula for technical scoring is "Technical Marks / Score = Total Technical Marks of the respective bidder x 0.7".

n. The formula for financial scoring is that the lowest bidder gets 30% Marks and the other bidders score 30 multiplied by the ratio of the lowest bid divided by the quoted price.

Total Allocable marks for Technical Proposal = 70 Total Allocable marks in Financial Proposal = 30

Total Combined Allocable Score for individual bids = Marks obtained in Technical Evaluation + Marks obtained in Financial Evaluation = 100

EXAMPLE:

TECHNICAL EVALUATION

The formula to calculate the technical points / marks / score of the bidder is given below: Technical Marks / Score = Total Technical Marks of respective bidder x 0.7

• Solved Example of Financial Scoring:

Technical scoring out of 100 = 85Carried Forward & Prorated Technical scoring = $85 \ge 0.70$

FINANCIAL EVALUATION

The formula to calculate the Marks for the price by the bidders other than lowest bidder is given below:

• Financial Evaluation Score of individual quoted Product:

= [Lowest quoted price of the item ÷ Next higher proposed price of the competing item] x Total Allocable financial score

• Solved Example of Financial Scoring:

If the lowest quoted price of an item is Rs. 86/- the same lowest will obtain score as below: = $[86 \div 86] \times 30 = 30$

= 30 marks being the lowest bidder for the quoted item

If the next higher quoted price of the same item is Rs. 105/- the marks obtained will be: = $[86 \div 105] \ge 30 = 24.57$

If the next higher quoted price of the same items is Rs. 130/- the marks obtained will be: = $[86 \div 130] \ge 30 = 19.84$ Marks and so on

TECHNICAL EVALUATION CRITERIA (MARKING)

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

S#	PARAMETERS / SUB-PARAMETERS	Marks for Evaluation	Total Marks
1	Conformity to the Purchaser's Specifications (Mandatory)		40
1.1	Fully compliant with the required tender specifications (Product demonstration, previous technical / support experience of the product / firm may also be considered for technical evaluation)	40	
1.2	Compliant with minor deviation (up to 10 % subject to main function is not affected)	30	
1.3	Above 10% / Non-compliant to required specifications.	Disqualify	
2	Trained Product specialist		10
2.1	Two marks for each Foreign Trained Graduate Engineer with PEC Registration in Sindh for the quoted product (Factory / OEM level service training) (Attached Proof of travel document and training certificate, online training is not acceptable)	6	
2.2	Two marks for each Foreign Trained Science Graduate in Sindh for the quoted product (OEM level Service training) (Attached Proof of travel document and training certificate, online training is not acceptable)	4	
3	Manufacturer's Authorization		10
3.1	Participating Firm is OEM direct representative (not agent / distributor) and has registered branch / Liaison office in Pakistan or the Sole distributor for more than 10 years. (Authorization certificate attested by embassy must be provided)	10	
3.2	Sole Authorized Distributor in Pakistan for last 5 Years (Authorization certificate attested by embassy must be provided)	8	
3.3	Sole Authorized Distributor for complete modality in Sindh / Pakistan for last 3 Years or the validity of authorization since issuance is of 3 years (Authorization certificate attested by embassy must be provided)	5	
3.4	Sole Authorized Distributor for limited product in Sindh / Pakistan for below 3 Years or the validity of authorization since issuance is of below 3 years.	0	
4	Human Resource (Technical Staff)		6
4.1	Graduate Engineer with PEC Registration in biomedical, electronics, and mechatronics, mechanical, industrial. PEC registration card of the engineer must be submitted. (1 mark for each Engineer)	4	
4.2	Diploma of Associate Engineer (DAE) in electrical / electronic / biomedical / mechatronics / mechanical / industrial. DAE certificate must be submitted. (0.5 mark for each certificate)	2	

S#	PARAMETERS / SUB-PARAMETERS	Marks for Evaluation	Total Marks
5	Networking		4
5.1	Networking setup across Pakistan (1 mark for each setup) (Proof of Registered office must be provided)	4	
6	Experience/ Performance		10
6.1	Product Relevant Experience / Product Previous Satisfactory Performance certificate of at least 03 public hospitals having minimum 5 years' Experience along with Installation Report and Supply order / Purchase Order of the firm in last 5 years, on letter head, signed and stamped by the Head of institution / Concern Officer of public sector. One mark for each after sale satisfactory performance certificate.	5	
6.2	Product Relevant Experience / Product Previous Satisfactory Performance certificate of at least 03 reputable private tertiary care level hospitals having minimum 5 years' Experience along with Installation Report and Supply order/ Purchase Order of the firm in last 5 years, on letter head, signed and stamped by the Head of institution / Concern Officer of private sector. One mark for each after sale satisfactory performance certificate.	5	
7	Annual Turnover during last three (03) financial years (Audited Statements of Accounts and Income Tax Return Forms must be attached as supporting documents)		10
7.1	Turn over above PKR 1 Billion	10	
7.2	Turn over above PKR 500 million	7	
7.3	Turn over above PKR 150 million	5	
7.4	Turn over above PKR 50 million	3	
7.5	Turn over below PKR 50 million	0	
8	Bonus points (Free of Cost Extended Warranty) (In accordance with the comprehensive warranty period including all parts).		10
8.1	Free of Cost Extended Warranty for Two Years.	10	
8.2	Free of Cost Extended Warranty Period for One year	5	
	GRAND TOTAL		100

(ANNEX-C)

<u>SCHEDULE OF REQUIREMENT</u> <u>PROCUREMENT OF PLANT & MACHINERY (SUPPLY,</u> <u>INSTALLATION, TESTING & COMMISSIONING OF</u> <u>PLANT & MACHINERY)</u>

A. GOODS SUPPLIED ON (DDP BASIS)

The entire quantity of the ordered goods shall be delivered within 12 Weeks or earlier from the date of issuance of supply order / contract award. (16 weeks above period supply not acceptable and the offer will be rejected).

i. The delivery period shall start from the date of Award of Contract / Contract Agreement.

(ANNEX-D)

SPECIAL NOTE

- **1.** Offered product's specifications sheet on company's letter head must be attached.
- **2.** Item-wise / Feature-wise product compliance / deviation statement must be attached.
- **3.** Confirm delivery period must be specified.
- **4.** Port of Shipment and Country of origin of **"MAJOR PART(S) OF THE EQUIPMENT"** must be clearly reflected separately in the Technical and Financial bids. The Origin means the place where the —goods are mined, grown, or produced.
- 5. Product specifications are only for widest possible competition and not to favor any single contractor or supplier nor put others at a disadvantage. However, the brand name, catalogue # / Name etc., if any, have only been used for the reference purpose. Equipment offered "ATLEAST EQUIVALENT OR HAVING BETTER SPECIFICATIONS" shall also be considered.
- **6.** Equipment must be quoted with all the standard accessories, required for the operation of the equipment.
- 7. Quoted equipment should be of latest Model.
- **8.** UPS / Power protection for the equipment shall be incorporated in the systems and also included in bid amount (where applicable).
- **9.** All the civil works and allied services will be carried-out by the bidder with the consultation of the Procuring Agency (if required) cost of all types of works included in bid amount.
- **10.** All site-specific work to be required in the system viz. Lead Glass / special antistatic flooring, environment control / radiation protection must be included bidder quote (where applicable).
- **11.** The bidder shall separately quote the price of service contract inclusive of parts as well as excluding the parts for 5 years (post warranty / guarantee period) in term of %age for total contract value (mandatory).

I / We agree to above mentioned all clauses;

Name of Contractor: _____Signature: _____

CNIC#. (Copy must be attached): _____

Full Address: _____

Company Stamp: _____

(ANNEX-E)

PROCUREMENT OF PLANT &MACHINERY (SUPPLY, INSTALLATION, TESTING & COMMISSIONING) PRICE SCHEDULE FOR SMBB INSTITUTE OF TRAUMA, KARACHI. DURING THE FINANCIAL YEAR 2023-24

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
S.NO.	 OPERATION THEATER LIGHT DUAL DOME (CEILING MOUNTED): Specifications: Unit should have Clarity of vision, optimum performance Unit should have Concentrated light source Unit should have Patented, proven reflector technology Unit should have No color deterioration Unit should have Cool light Unit should have Cool light Unit should have Cool light Unit should have Optimum hygiene Unit should have Optimum hygiene Unit should have Safety glass for best possible clarity. Unit Should have Safety glass for best possible clarity. Unit Should have Safety glass for best possible clarity. Unit Should have Safety glass for best possible clarity. Unit Should have Safety glass for best possible clarity. Unit Should have Safety glass for best possible clarity. Unit Should have dust protection Should have light intensity of main light 160,000 lux Should have light intensity of satellite light 160,000 lux Should have Color temperature adjustment 3500 - 5500 Kelvin Should have Focusable light field size d10 at 1m of light should be 180 mm -300 mm or better Should have Color rendering index to 99 Ra or above. Life time of LED should be 50,000 hours or more. Dome should be adjustable upper side maximum 7 Feet or more and lower side minimum 4 Feet or more. Based on room size and can customize the configuration. System should be compatible with Laminar Flow System Power Requirement: Line voltages: 100-240VAC 	U.O.M 01
	-	

S.NO.		NAME AND SPECIFICATION OF ITEMS	U.O.M
	1.	Warranty Period required 5 years with maintenance and parts replacement.	
	2.	All the parts are included in the warranty. (LED, Keypad and all others parts are	
	include	ed)	
	3.	PPM must be done according to the OEM criteria in warranty period.	
	4.	Service support and parts availability upcoming next ten years after installation	
		of quoted model must be ensure via a separate letter by O.E.M.	
	5.	Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	
	6.	Up-time guarantee during warranty period must be 90-95%.	
	7.	Response to breakdown during and after warranty period must be 1-3Hours.	
	8.	Down Time:	
		If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned	
		below;	
		90% \rightarrow No Down Time	
		Below 90% \rightarrow 1.5 days increase daily	
		Below 75% \rightarrow 3.5 days increase daily	
		Below 50% \rightarrow 5 days increase daily	
		ings & Manual:	
	1.	Operating and service manual with troubleshooting and circuit diagram must be provided.	
	2.	In house operator training session for end user.	
	3.	In house service training session by Principal Certified resource	
	4.	Trained Service Engineers with certification from the principle, Karachi based mandatory.	
	Note: 1.		
	of wor firm/s	y, Installation, Testing, Commissioning and Maintenance (Including all type rk for the completion of the installation) are the responsibility of awarded upplier).	
		TRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT ESTHESIA MACHINE WITH VENTILATOR	
		ESTHESIA MACHINE WITH VENTILATOR inical Specification	
02.	1.	Gas Supply: Pipeline input pressure: 3 to 6 bar supply required; Connections: for O2, N2O, Air and Vacuum.	05
	2.	Non-interchangeable gas supply pipeline inlets.	
		Pin index cylinder yokes for O2 and N2O one each or more. Stainless steel/fiber work surface.	

S.NO.		NAME AND SPECIFICATION OF ITEMS	U.O.M
	5.	Central Gas / Electronically driven unit.	
	6.	Continual fresh gas flow with fresh gas flow compensation during mechanical	
		ventilation.	
	7.	Should be low flow	
	8.	Auxiliary O2 Outlet one or more.	
	9.	Two lockable castors	
		Absorber bag support arm	
		Oxygen flush 30 l/min or more	
		Should have built in suction operating on vacuum	
		Should have built in Active scavenging system compatible with hospital AGSS	
	14.	Manometer gauges (Manual or Digital)	
		i. Pipeline: O2, N2O & Air	
		ii. Cylinder NIST: O2, N2O	
		iii. Pin indexed: O2, N2O	
	15.	Rotameter (hypoxic guard system)	
		i. O2 tube (Double tube)	
		ii. N2O tube	
	10	iii. Air	
		Common gas outlet option should be present.	
		Front outlet 22mm OD – 15mm ID	
		Built in Oxygen monitoring system.	
		Built in autoclavable flow sensor compatible with all type of patient.	
	20.	Should have ability to add module or other optional features like EtCO2, Agent monitoring.	
	21.	Selectatec system two or more station vaporizer mounting	
		i. Vaporizer should be flow and temperature compensated	
		ii. Should not be brand specified and can be interchangeable	
	22.	Minimum 1.5 liters CO2 absorber volume compatible with all type of patient	
		i. Absorbent canister should be Autoclavable	
	23.	Breathing assembly/system should be completely Autoclavable and not be cycle	
		bounded.	
	24.	Two or more drawer units.	
	25.	Anesthesia ventilator with minimum 15" or more color Touch LCD/TFT screen	
		and should be capable of ventilating adult, pediatric and neonate patient.	
	26.	Ventilation modes: MAN, SPONT, VCV, PCV, PSV	
		Should be equipped with anti-barotrauma and anti-volutrauma system	
		Tidal volume from 5 ml to 1500 ml or better	
		Ventilation frequency starting from 4 bpm up to 80 bpm or better	
		Inspiratory to expiratory time starting from 1:1 till 4:1	
		PEEP 4 cmH20 to (20 cmH2O or more)	
		Oxygen failure safety system	
	33.	Measured parameters should include: Expired tidal volume, frequency, minute	
	<i></i>	volume, PIP, plateau pressure, PEEP, mean pressure, airway pressure	
	34.	Power Requirement:	
		i. Line Voltages 100-240 VAC	
	<u> </u>	ii. Line Frequency 50/60Hz	
		Battery backup: 60 minutes or more	
	36.	Audible and visual alarms: Low air/ N2O/ O2 input pressure, apnea alarm, O2	
		alarms, upper/lower limit alarms and leak or patient disconnection	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	37. Silent indicator, time and date and mains and battery indicator	
	Should Be Supplied with:	
	1. 2*Rebreathing patient circuit for Adult and Paeds	
	 1*Reusable bag 2L 1*Power cord 	
	4. 1*Vaporizers (Isoflurane)	
	5. 1*Side arm for Patient Monitor attachment	
	Requirement:	
	Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement. All	
	the parts are included in the warranty i.e., O2 sensor, battery & etc.	
	2. Five years' warranty of internal flow sensor.	
	3. PPM must be done according to the OEM criteria in warranty period	
	2) Up-time guarantee during warranty period must be 90 -95%	
	After Sales Service Support:	
	1. Free of cost software installation and up gradation would be responsibility of	
	manufacturer and its authorized distributor for upcoming next ten years after	
	installation of quoted model.	
	 Service support and parts availability upcoming next ten years after installation of 	
	quoted model must be ensure via a separate letter by OEM.	
	3. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency/ distributor	
	4. Response to breakdown during and after warranty period must be 1-3 Hours	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram	
	2. In house operator training session for end user	
	3. In house service training session by Principal Certified resource	
	4. Trained service engineers with certification from the principal, Karachi based mandatory.	
	Demonstration:	
	1. Quoted model demonstration is mandatory in technical approval is subject to	
	satisfactory demonstration.	
	Note:	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type	
	of work for the completion of the installation) is the responsibility of awarded	
	firm/supplier.	
	COUNTRY OF ORIGIN: USA / EUROPE / JAPAN / UK SHOULD HAVE FDA	
	510(K) / CE(MDD) / JIS /JQAO/ MHLW.	
	MANUFACTURER FROM OTHER COUNTRIES (OTHER THAN USA, EUROPE	
	OR JAPAN) SHOULD HAVE FDA (510K) AND CE / (MDD) / JIS / JQAO / MHLW.	
	PATIENT MONITOR	
03.	1. Monitor for Adult / Paeds / Neonates	10
	2. Operating Features and Characteristics:	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	3. Screen Size: At least 12" diagonal (Touch Operated) or better with non-fade	
	LCD / TFT LCD / LED color display	
	4. Electro-Surgical Interference Suppression / Protection	
	5. Defibrillator Protection	
	6. Freeze and Cascade Facility	
	7. Waveform: Six wave forms or more	
	8. Waveform Traces Speed: 25 & 50 mm / sec	
	Parameters:	
	ECG	
	1. Input: 3&5-lead ECG cable and standard AAMI line for connection	
	Lead Choice: I, II, III, aVR, aVF, aVL, V, V1-V6,	
	2. Numeric: Heart Rate	
	3. Real time, and freeze ECG Trace	
	Non-Invasive Blood Pressure (NIBP):	
	1. Method: Oscillometric Principle	
	2. Numeric: Systolic, Diastolic, and Mean Pressure	
	3. Selectable auto inflates interval settings	
	4. Rising Cuff / Continuous Pressure Display	
	Invasive Blood Pressure (IBP):	
	1. IBP Two or more Channels	
	Temperature:	
	1. Numeric: Temperature selectable in °C / °F	
	Pulse Oximetry:	
	1. Numeric: $0 - 100\%$ oxygen saturation measuring range	
	2. Waveform-Plethysmograph Pulse with Pulse Strength Indication	
	3. Probe preferable Masimo/Nellcor or equivalent	
	Arrhythmia Analysis:	
	1. Arrhythmia Analysis and ST Analysis	
	Respiration:	
	1. Breath Rate display and settable apnea alarms	
	2. Sweep Speed: 6.25, 12.5 mm / sec or better	
	Other Parameters:	
	1. Built-in rechargeable battery with 2 or more-hour battery backup	
	2. Monitor should have ability to add module or other optional features like EtCO2, Agent	
	monitoring and IBP up to 4 channels.	
	3. Trend Data: Graphical / Tabular with at-least 48 hours' or better	
	4. Should have feature for the connectivity with the Central monitoring station	
	Alarms:	
	1. High & Low (settable) on all parameters	
	2. Visual and audible indication of alarms	
	Communication:	
	1. Capability to interface with LAN / WLAN for data transfer	
	Accessories:	
	1. The system must be complete with all reusable (sensors, probes, cables, or any	
	other accessories) required for measuring all the above selected parameters for Adult,	
	Paeds and Neonates	
	2. Reusable Cuffs (Latex Free) of all available sizes of all body contours	
	3. Height and tilt adjustable wall mounts (Quick release of monitor) and (Medical	
	grade construction)	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	Note: Monitor stand installation and Monitor attachment with wall stand is the	
	responsibility of supplier/vendor	
	Power Requirement:	
	1. Linevoltages: 100-240VAC	
	2 Line Frequency: 50/60 Hz	
	Requirement: Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement.	
	All the parts are included in the warranty. (Battery, EtCO2 sensor and all others parts are	
	included).	
	2. PPM must be done according to the OEM criteria in warranty period.	
	3. Service support and parts availability upcoming next ten years after installation	
	of quoted model must be ensure via a separate letter by O.E.M.	
	4. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	
	5. Up-time guarantee during warranty period must be 90-95%.	
	 6. Response to breakdown during and after warranty period must be 90-95%. 	
	7. Down Time: If equipment is malfunctioning or not working properly then down	
	time period would start i.e., if machine remain out of order for more than one day; then	
	one and half day increase in contract of concerned equipment will be charged but if any	
	part required from manufacturer, then downtime period not calculated for a month but	
	after a month the down time should be calculated, are mentioned below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be	
	provided.	
	2. In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
	Note: Supply, Installation, Testing, Commissioning and Maintenance (Including all type of	
	work for the completion of the installation) is the responsibility of awarded	
	firm/supplier.	
	Country of Origin: USA / Europe / JAPAN / UK should have FDA 510(k) / CE(MDD)	
	/ JIS /JQAO/ MHLW.	
	Manufacturer from other Countries (other than USA, Europe or Japan) should have	
	FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	
	BATTERY OPERATED ORTHO DRILL WITH ATTACHMENTS	
<u>.</u>	1. Researchable Battery with 2 hours or more battery backup;	
04.	2. Lid for battery	02
	3. Charge status display	
	4. Maximum Speed 950 or more rpm	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	5. Maximum Torque: 4.5 Nm or better	
	6. Temperature and current Sensitive over load Protection	
	7. Light weight preferably less than 1.5 kg including battery and lid	
	8. Sterile Cover	
	9. Universal Battery Charger for same manufacturer with status indication	
	10. Drill Chuck, with key, clamping range up to \emptyset 7 mm or better	
	Speed: approx. 1200 or more rpm	
	Chucking range: 1.0–6.0 mm or better Cannulation: 4 mm or better	
	11. Screw Attachment, with AO/ASIF Quick Coupling	
	Speed: approx. 250 rpm or better	
	Cannulation: 4 mm or better	
	12. Attachment for Acetabular and Medullary Reaming	
	Speed: approx. 250 rpm or better	
	Cannulation: 4 mm or better	
	13. Quick Coupling for Kirschner Wires Ø 1.0 to 4 mm or better	
	1200 Rpm or better	
	14. Sagittal Saw Attachment	
	Frequency: Approx.11,000 cpm or better	
	Deflection: approx. 4.0° or better	
	Accessories:	
	1. Drill & Saw with all standard accessories.	
	2. Bio barrier container with all standard accessories including filter, re-useable modular	
	lock mechanism and filter paper at least 5000cycle (100each with box and disposable	
	security seal 5000pcs.) Power Requirement:	
	1. Line voltages: 100-240VAC	
	Line Frequency: 50/60 Hz	
	Requirement:	
	Certification:	
	1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	
	Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement.	
	All the parts are included in the warranty. (Battery, and all others parts like attachments,	
	hand piece, motor etc. are included).	
	2 PPM must be done according to the OEM criteria in warranty period.	
	 3. Service support and parts availability upcoming next ten years after installation 	
	of quoted model must be ensure via a separate letter by O.E.M.	
	4. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	
	5. Up-time guarantee during warranty period must be 90-95%.	
	6 Response to breakdown during and after warranty period must be 1-3Hours.	
	7. Down Time: If equipment is malfunctioning or not working properly then down	
	time period would start i.e., if machine remain out of order for more than one day; then	
	one and half day increase in contract of concerned equipment will be charged but if any	
	part required from manufacturer, then downtime period not calculated for a month but	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	after a month the down time should be calculated, are mentioned below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be	
	provided.	
	2. In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
	Note:	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of	
	work for the completion of the installation) is the responsibility of awarded firm/supplier.	
	mm/supplief.	
	COUNTRY OF ORIGIN: JAPAN / EUROPE / UK / USA OR EQUIVALENT	
	PORTABLE MONITOR	
	1. Less than 7" Color Digital display LCD/LED	
	NIBP:	
	1. Method: Oscillometric Principle	
	2. Numeric: Systolic, Diastolic, and Mean Pressure	
	3. Selectable auto inflates interval settings	
	4. Rising Cuff / Continuous Pressure Display	
	5. NIBP Measurement Record: 2000 or more SPO2:	
	 Preferable Masimo/Nellcor or equivalent. 	
	 Pulse Oximeter with Plethysmograph waveform and Pulse Strength Indication 	
	3. Complete with all standard accessories reusable SPO2 probe for Paeds and Adult,	
	reusable NIBP cuff with all standard sizes and etc.	
	4. Rechargeable battery with 2 hours or more battery backup	
05.	5. Integrated thermal printer optional	10
	Power Requirement:	
	1. Linevoltages: 100-240VAC	
	2 Line Frequency: 50/60 Hz	
	Requirement:	
	Certification: Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement.	
	All the parts are included in the warranty. (Battery, and all others parts are included).	
	2. PPM must be done according to the OEM criteria in warranty period.	
	3 Service support and parts availability upcoming next ten years after installation	
	of quoted model must be ensure via a separate letter by O.E.M.	
	4. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	5. Up-time guarantee during warranty period must be 90-95%.	
	6 Response to breakdown during and after warranty period must be 1-3Hours.	
	7. Down Time: If equipment is malfunctioning or not working properly then down	
	time period would start i.e., if machine remain out of order for more than one day; then	
	one and half day increase in contract of concerned equipment will be charged but if any	
	part required from manufacturer, then downtime period not calculated for a month but	
	after a month the down time should be calculated, are mentioned below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below $50\% \rightarrow 5$ days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be	
	provided.	
	 In house operator training session for end user. In house service training session by Principal Certified resource 	
	 In house service training session by Principal Certified resource Trained Service Engineers with certification from the principle, Karachi based 	
	mandatory.	
	Note:	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type	
	of work for the completion of the installation) is the responsibility of awarded	
	firm/supplier.	
	Country of Origin: USA / Europe / JAPAN / UK should have FDA 510(k) / CE (MDD)	
	/ JIS /JQAO/ MHLW.	
	Manufacturer from other Countries (other than USA, Europe or Japan) should have FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	
	VASCULAR DOPPLER:	
	1. High Resolution Color Display	
	 Vascular Probe: 8 MHz, 10 MHz and Intraoperative probe. 	
	 Bi-directional Doppler Waveform Display 	
	4. Noise Reduction to reduce the background hiss	
	5. Removable Micro SD Card Storage	
	6. Compatible with Interchangeable Probes	
	7. Integrated Loudspeaker	
	8. Flow Separated Stereo Headphone Output	
06.	9. Auto Gain Control	02
	10. Rechargeable Battery with 2 hours or more battery backup	
	11. Medical grade recharging kit	
	12. Accessories: complete with: gel, soft carry bag, user manual. Vascular probe (8 & 10 MHz and Intraoperative probe) and Adaptor for battery charging	
	Power Requirement:	
	1. Linevoltages: 100-240VAC	
	2 Line Frequency: 50/60 Hz	
	Requirement:	
	Certification:	
·		

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	
	Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement.	
	All the parts are included in the warranty. (Battery, and all others parts are included).	
	2 PPM must be done according to the OEM criteria in warranty period.	
	3 Service support and parts availability upcoming next ten years after installation	
	of quoted model must be ensure via a separate letter by O.E.M.	
	4. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	
	5. Up-time guarantee during warranty period must be 90-95%.	
	6. Response to breakdown during and after warranty period must be 1-3Hours.	
	7. Down Time: If equipment is malfunctioning or not working properly then down	
	time period would start i.e., if machine remain out of order for more than one day; then	
	one and half day increase in contract of concerned equipment will be charged but if any	
	part required from manufacturer, then downtime period not calculated for a month but	
	after a month the down time should be calculated, are mentioned below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be	
	provided.	
	2 In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
	Note:	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type	
	of work for the completion of the installation) is the responsibility of awarded	
	firm/supplier.	
	COUNTRY OF ORIGIN: JAPAN / EUROPE / UK / USA OR EQUIVALENT	
	PATIENT WARMER (WATER BASED)	
	Potient Warmer whole hody system could be allowed conductive warming thereasy	
	Patient Warmer whole-body system could be allowed conductive warming therapy. Which can be used in the operating room, pre-op, recovery, emergency department or any	
	department in need of patient warming therapy	
	Unit should have ability to pre-condition the water saves time for the caregiver.	
07.	Digital display LCD/LED	5
	Water Temperature Range: 20°C - 42°C or better (Heating Only)	
	Controller Accuracy: Water Temp: $\pm 1^{\circ}$ C or better	
	Water Temperature Display Range: 0°C - 50°C	
	Audible & Visible alarms for over temperature limits. Adult Blanket with Tubing: 60" x 24" or equivalent, Qty. 02	
	Paeds Blanket with Tubing: 30" x 22" or equivalent, Qty. 02	

).	NAME AND SPECIFICATION OF ITEMS	U.O. <i>N</i>
Mobil	e Trolley with two lockable castors (imported or local both must be quoted)	
-	lete with all standard accessories	
	: Class 1, Type BF, Defibrillation-proof, IPX4	
Power 1.	Requirement : Line voltages: 100-240VAC	
1.	Line Frequency: 50/60 Hz	
	rement:	
Certif	ication:	
1.	System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	
Warr	anty and Maintenance Period:	
1.	Warranty Period required 5 years with maintenance and parts replacement.	
	All the parts are included in the warranty.	
2	PPM must be done according to the OEM criteria in warranty period.	
3	Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	
4	Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	
5.	Up-time guarantee during warranty period must be 90-95%.	
6		
7.		
	If equipment is malfunctioning or not working properly then down time period	
	would start i.e., if machine remain out of order for more than one day; then one	
	and half day increase in contract of concerned equipment will be charged but if	
	any part required from manufacturer, then downtime period not calculated for a	
	month but after a month the down time should be calculated, are mentioned below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
Train	ings & Manual:	
1.	Operating and service manual with troubleshooting and circuit diagram must be provided.	
2	In house operator training session for end user.	
3	In house service training session by Principal Certified resource	
4	Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
Note:		
of wo	y, Installation, Testing, Commissioning and Maintenance (Including all type rk for the completion of the installation) is the responsibility of awarded upplier.	

COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT

S.NO.	NAME AND SPECIFICATION OF ITEMS			
	BLOOD / FLUID WARMER			
	Microprocessor controlled for simple operation			
	Microprocessor controlled for simple operation Digital display LCD/LED			
	Temperature Setting: 39°C to 43°C			
	Preheat Time <2 min or better			
	Over temperature safety cutoff			
	Visual & Acoustic Over-temperature & Under-temperature alarms			
	Flow Rate: Standard (Low to Rapid Flow rate)			
	Alarm Temperature: Standard (Visual and Acoustic)			
	Heat Exchanger: Dry			
	Operating mode: Continuous operation, 24hrs a day continuous duty			
	No special disposable required Standard tube size 4mm or equivalent can be attached and should not be brand specified			
	Safety: Class 1, Type BF, Defibrillation-proof, IPX4			
	Heat protection sleeve should be provided: To protect from the environmental effect.			
	Power Requirement:			
	1. Line voltages: 100-240VAC			
	2. Line Frequency: 50/60 Hz			
	Requirement:			
	Certification:			
	1. System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO			
	Warranty and Maintenance Period:			
08.	1. Warranty Period required 5 years with maintenance and parts replacement.	02		
	All the parts are included in the warranty.			
	2 PPM must be done according to the OEM criteria in warranty period.			
	3 Service support and parts availability upcoming next ten years after installation			
	of quoted model must be ensure via a separate letter by O.E.M.			
	4 Required surety of service support and parts from the manufacturer, in case of transfer even $($ distributor via undertained by $O \to M$			
	transfer agency / distributor via undertaking by O.E.M.			
	5. Up-time guarantee during warranty period must be 90-95%.			
	6 Response to breakdown during and after warranty period must be 1-3Hours.			
	7. Down Time:			
	If equipment is malfunctioning or not working properly then down time period			
	would start i.e., if machine remain out of order for more than one day; then one			
	and half day increase in contract of concerned equipment will be charged but if			
	any part required from manufacturer, then downtime period not calculated for a			
	month but after a month the down time should be calculated, are mentioned			
	below;			
	$90\% \rightarrow \text{No Down Time}$			
	Below 90% \rightarrow 1.5 days increase daily			
	Below 75% \rightarrow 3.5 days increase daily Below 50% \rightarrow 5 days increase daily			
	Below 50% \rightarrow 5 days increase daily			
	Trainings & Manual:			

S.NO.	NAME AND SPECIFICATION OF ITEMS		U.O.M	
	1 0	ce manual with troubleshooting and circuit diagram must be		
	provided.			
	2 In house operator training session for end user.			
	3 In house service training session by Principal Certified resource			
	4. Trained Service Engineers with certification from the principle, Karachi based			
	mandatory.			
	Supply, Installation, Testin of work for the completion	ng, Commissioning and Maintenance (Including all type on of the installation) is the responsibility of awarded		
	firm/supplier.			
		K / USA / EUROPE / JAPAN OR EQUIVALENT		
	ECG MACHINE			
	Instruments Type:	Multi lead electrocardiography		
	Input Channels:	12 Channel, Simultaneous		
		Acquisition of all 12 leads		
	Standard Leads Acquired:	I, II, III aVR, aVL, aVF, V1,		
		V2, V3, V4, V5, V6		
	Waveform Display:	Backlit 10" or more color		
		display		
	1 1	or exceed the		
	requirements of ANSI/AAM	I/ EC11		
	Input Dynamic Range			
	Electrode Offset Tolerance			
	Common Mode Rejection			
	Patient Leakage Current	Meet or exceed the requirements of ANSI/AAMI ES1		
	Chassis Leakage Current			
	Digital Sampling Rate:	30,000 or better samples /second/Channel used for		
	Pacemaker spike detection;			
09	1,000 or better sampl	es /second/Channel used for recording and analysis	05	
	Printer Technologies:	Thermal Printer;		
	Thermal Printer Speed:	5, 10, 25 or 50 mm/s		
	Gain Setting 5, 10 or 20mm /mV or Better			
	Report Print Formats Standard or Cabrera: 3+1, 3+3, 6, 6+6, & 12 Channel			
	Frequency Response 0.05 to 300 Hz or Better			
	Filters High-Performance baseline filter; AC interference filter 50/60 Hz; Low-Pass			
	filters 40Hz, 150 Hz, or 300			
		s or better		
		phanumeric keyboard		
	Heart Rate Range 30 to 3	-		
	Sensitivity /Gain` 1.25, 2			
		I, Type CF defibrillation-proof applied parts		
	Data Storage Internal Stora			
	Support for external archivin			
	Capability to interface with I	LAN/WLAN for data transfer		

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	File Formats. PDF, SCP, XML, DICOM etc.	
	Power Requirement:	
	Line Voltages 100-240 VAC	
	Line Frequency 50/60Hz	
	BatteryRechargeable Battery 5 hours or more battery backup	
	Accessories Complete with standard accessories ECG Leads, Printer paper, Power	
	Cord and	
	Original Mobile Cart with 2 Lockable Caster	
	Requirement:	
	Certification:	
	System should have Certification CE & US FDA	
	Warranty and Maintenance Period:	
	• Warranty Period required 5 years with maintenance and parts replacement. All	
	the parts are included in the warranty (battery, keypad, printer & etc. are included).	
	• PPM must be done according to the OEM criteria in warranty period	
	• Up-time guarantee during warranty period must be 90 -95%	
	After Sales Service Support:	
	• Service support and parts availability upcoming next ten years after installation	
	of quoted model must be ensure via a separate letter by OEM.	
	• Required surety of service support and parts from the manufacturer, in case of	
	transfer agency/ distributor	
	• Response to breakdown during and after warranty period must be 1-3 Hours	
	Trainings & Manual:	
	• Operating and service manual with troubleshooting and circuit diagram	
	In house operator training session for end user	
	Country of Origin: USA / Europe / JAPAN or equivalent / other than USA, Europe	
	or Japan will be accepted if equivalent has FDA (510k), CE (MDD) / JIS / JQAO	
	(Any Two Certificates).	
	WASHING, DISINFECTION AND DRYING MACHINE (10 DIN)	
	TECHNICAL SPECIFICATIONS:	
	1. The machine must be usable in all thermo-disinfection applications of medical	
	equipment including drying.	
	 The machine's washing reservoir's capacity must be at least 20 Liters. 	
	 The machine is washing reservoir s capacity must be at least 20 Ellers. The machine must have 2 water inlets, being cold and hot. 	
	 The machine's washing cabinet must be corrosion-resistant and fully made of 	
	AISI316L stainless steel.	
	5. The machine must have an at least 2-phase water filtering system.	
	6. The machine must have a motorized double-sliding-door opening and closing	
10	automatically, and after one of the two doors ensuring the sterilization safety closes,	01
	the other must open.	
	7. The machine must be front loading.	
	8. The machine must have a discharge pump discharging all of the waste water.	
	9. The machine must have two independent PT 100 type heat probes controlling the	
	temperature and each other.	
	10. The machine must be microprocessor controlled, and have at least 2 dosing pumps	
	for chemical products.	
	for chemical products. 11. It must allow to change the required quantity of product at every cycle thanks to the	
	-	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	13. The machine must have at least 6 programs.	
	14. The machine's washing cycles, temperature, time and drying phases must be fully	
	controllable.	
	15. The machine must have a Ethernet connection.	
	16. The machine must have a safety locking system causing the door to close automatically after a program starts and preventing its opening while the machine is	
	operating.	
	17. Each washing program must be clearly displayed on the control panel, and any fault	
	or problem arising during a washing program must be displayed on the control panel	
	again as acoustic signals.	
	18. The control panel must have an encoding system preventing changing the program	
	values without entering a particular password. 19. The machine must have a color touchscreen displaying all machine functions.	
	20. The machine must have a color touchscreen displaying an machine functions.	
	21. The machine must have a filtered drying system, by HEPA filter.	
	22. The machine must have at least 5 Kw heating power, and at least 150 m3/h air flow.	
	23. The machine must have a glass door to see the interior when looking from outside.	
	24. The following accessories must be provided with the machine:	
	25. *5 phase washing shelf 1 pcs	
	26. *DIN Basket 20 pcs	
	27. *Loading Cart 2 pcs	
	Power Requirement:	
	Line voltages: 400VAC, 3phase	
	Line Frequency: 50/60 Hz	
	Requirement:	
	Certification:	
	System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	
	Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts	
	replacement.	
	2. All the parts are included in the warranty. (LCD, Keypad, door seal, heaters	
	and all others parts are included)	
	and an others parts are included)	
	3. PPM must be done according to the OEM criteria in warranty period.	
	3. PPM must be done according to the OEM criteria in warranty period.	
	3. PPM must be done according to the OEM criteria in warranty period.4. Service support and parts availability upcoming next ten years after	
	 3. PPM must be done according to the OEM criteria in warranty period. 4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M. 	
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	 3. PPM must be done according to the OEM criteria in warranty period. 4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M. 5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M. 	
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	 3. PPM must be done according to the OEM criteria in warranty period. 4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M. 5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M. 6. Up-time guarantee during warranty period must be 90-95%. 7. Response to breakdown during and after warranty period must be 1- 	
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	 3. PPM must be done according to the OEM criteria in warranty period. 4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M. 5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M. 6. Up-time guarantee during warranty period must be 90-95%. 7. Response to breakdown during and after warranty period must be 1-3Hours. Down Time: 	
	 3. PPM must be done according to the OEM criteria in warranty period. 4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M. 5. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M. 6. Up-time guarantee during warranty period must be 90-95%. 7. Response to breakdown during and after warranty period must be 1-3Hours. Down Time: 	
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S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	 below; 90% → No Down Time Below 90% → 1.5 days increase daily Below 75% → 3.5 days increase daily Below 50% → 5 days increase daily Trainings & Manual: 1. Operating and service manual with troubleshooting and circuit diagram must be provided. 2. In house operator training session for end user. 3. In house service training session by Principal Certified resource 4. Trained Service Engineers with certification from the principle, Karachi based mandatory. Note: Safely installation of said equipment and dismantling of installed said equipment should be responsibility of awarded firm/supplier.	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier including all electrical, mechanical & Civil works).	
11	 COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT STEAM STERILIZER (8 STU) TECHNICAL SPECIFICATIONS: PLC-CONTROLLED AUTOCLAVE (STERILIZING) DEVICES 1. Must be usable to sterilize any material that can be sterilized with the heat of pressurized steam. 2. Chamber, continuous jacket, doors and steam generator must be made of stainless steel AISI 316L. 3. Must have two sliding doors, which operate vertically. The door must open in a way that shall not prevent taking out the parts (baskets, buckets, etc.) that allow to place materials in the autoclave. 4. The doors must be opened, closed, locked, and operated vertically by pneumatic piston systems for motorized system there should be manual bypass system in the event of any malfunctioning or fault. The device's door must have a safety lock, and if it touches anything outside in its movement direction when closing, the fully electronic (photocell) safety system must be activated and the door must open. In addition, in case of pressure in the sterilization room, the door must not be opened. The doors must not be opened before the cell pressure decreases below 50 mbar after sterilization. 5. The groove the seal is mounter and the door is bedded must be processed of AISI 316L quality stainless steel at least as 45 – 50 mm or better and in a single piece. 6. The steam generator must be embedded, automatically start and be able to produce steam sufficient for the autoclave. The heaters must consist of at least 4 groups. Groups of heaters must be controlled by atleast 3 electrodes located outside the generator in a way that tolerates fluctuations, and if the water level is not sufficient, the heaters must automatically get deactivated. 7. The outer surfaces of steam jacket must be insulated against heat loss. 	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	 8. All Pipes, Fittings, Clamps conducting steam should be made of stainless steel AISI 316L. 9. The device's pressure test controls for the sterilizing volume and steam jacket of the device must be performed under at least 4 Bar for the steam generator. 10. Pressure and vacuum impermeability must be ensured with a heat-resistant silicon-based seal or better, and it must be changeable without disassembling anything. 	
	11. All of the processes of vertical operation of the doors, locking of the doors, control of the steam generator, cell steam supply, steam jacket steam supply, seal steam supply, air intake into the cell, drainage, and vacuuming of the cell must be carried out by pneumatic valve systems. For motorized system there should be manual bypass system in the event of any malfunctioning or fault.	
	 12. For optimum measurement of the temperature in the cell, Pt-100 temperature sensor must be found, and this Pt-100 must be of class A quality. 13. If nothing is done after sterilization, the stand-by system must get activated within an automatically- adjustable period of time, and the device must get in the stand-by mode. When operation is required again, the stand-by must immediately get deactivated, and the device must get ready to use. 	
	14. The vacuum pump must have a thermal switch, operate with water, and provide the required vacuum level.	
	15. If air enters the cell in some way during any cycle of sterilization, the user must be warned, and the sterilization must stop.	
	16. The device must have analogue / digital manometers to display the pressure of the generator, the cell, the jacket and the seal.	
	17. The sterilization cell, the jacket and the generator must have mechanical safety valves against excessive pressure, in case of excessive pressure, it must discharge the steam, and the pressure fault must be monitored on the screen. In case of a power cut, lack of air and mains water, the device must notify these events to the user with audible/visual warnings.	
	18. In case of any fault or failure of the device, it must be equipped with software and electric equipment that will not allow for danger.	
	19. It must operate with 380V 50 Hz mains voltage, and tolerate +/- 10 % voltage fluctuations.	
	20. To be moved easily, the device must have four fixable wheels, and in addition, four adjustable legs to get fixed where it is to be used.	
	21. The control unit shall control whether all phases of sterilization operate without any problem, stop operating if there is no fault that could interfere with sterilization, otherwise indicate on the screen that sterilization is unsuccessful by notifying the fault or failure.	
	22. The condensed steam during the program operation and the steam discharged from the cell as a result of sterilization must be cooled by the internal cooling system and drained.	
	23. On/off switch must be able to cut the electricity completely. In addition, the device must have an emergency stop button.	
	24. The control and operation elements must be gathered on a capped board to analyze the system status easily.	
	25. The control unit must be specially designed for devices sterilizing with steam, and the sterilization software must fully belong to the manufacturing company. The device's clean and dirty side touch screen must be at least 7 inches.	
	26. This screen must allow to monitor the name of the program, the cell temperature and pressure, the total time, the generator pressure, the steam jacket pressure, the warning for the door open or closed, actual date and time, and the sterilization temperature and pressure.	
	27. The control unit must have at least 20 empty programs and test programs that the staff may download and adjust the sterilization temperature, the sterilization time, the pre-heat and the	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	vacuum time with, pre-determined and unchangeable 125 °C Rubber Material, 121 °C Liquid Material, 134 °C Solid Material, 134 °C Textile Material programs, Bowie-Dick Test Program and Air Leak Test Program.	
	28. The touchscreen meeting the safety of operating with user's name and password in a way that will block unauthorized operator interventions, and must allow to insert special programs, monitor the performed processes, and also for simulation.	
	29. The device must have an embedded board, and the built-in thermal type without ink need. The printer output must have parameters such as actual date and time, the user's name, the name of the sterilization program, the number of cycles, the number of pre-vacuums, the number of pre- heats, the sterilization temperature, the sterilization pressure, the sterilization time, the drying time, the instant fault messages, the actual date and time and the total time at the end of the operation designed for maximum safety for sterilization.	1
	30. The autoclave must have a hepa filter that filters particles bigger than 0.3 micron by 99.999% for drying and pressure adjustment.	l
	31. The autoclave's tub and heat areas must be insulated with CFC (Chlorofluorocarbon) and chlorine- free insulating material.	l
	32. The cell, jacket, generator and seal pressures of the device must be precisely measured by a pressure transmitter, and the instant pressure values of these areas must be displayed on the screen.	l
	 the screen. 33. The device's heating contactor must have a control, and in case of fault of the contactor, when it operates without any command, the screen must have a fault indicator. 34. The following accessories must be provided with the machine: *Loading shelf 1 pcs 	
	*STU baskets 10 pcs *Loading Cart 2 pcs Power Requirement :	l
	Line voltages: 100-240VAC Line Frequency: 50/60 Hz	l
	Requirement:	l I
	Certification:	l I
	System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO	l I
	Warranty and Maintenance Period:	l I
	1. Warranty Period required 5 years with maintenance and parts replacement.	l I
	(LCD, Keypad, door seal, heaters and all others parts are included).	1
	2. PPM must be done according to the OEM criteria in warranty period.	1
	3. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	l
	4. Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M.	1
	5. Up-time guarantee during warranty period must be 90-95%.	1
	6. Response to breakdown during and after warranty period must be 1-3Hours.	L
	Down Time:	L
	If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if	L. L. L.
	any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned	

S.NO.	NAME AND SPECIFICATION OF ITEMS		
	 below; 90% → No Down Time Below 90% → 1.5 days increase daily Below 75% → 3.5 days increase daily Below 50% → 5 days increase daily Trainings & Manual: Operating and service manual with troubleshooting and circuit diagram must be provided. In house operator training session for end user. In house service training session by Principal Certified resource Trained Service Engineers with certification from the principle, Karachi based mandatory. Note: Safely installation of said equipment and dismantling of installed said equipment should be responsibility of awarded firm/supplier.		
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier including all electrical, mechanical & Civil works). COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT		
12	 VENTILATOR FOR ICU: Technical Specifications: Display should be 12" or more, TFT color with touch screen. Patient Type: Adult, Pediatric and neonate. Modes: CMV, SIMV, PCV, DuoPAP / bilevel, APRV, SPONT, Closed loop-ventilation, NIV. Should show real time lungs mechanics parameter including tidal volume, lung compliance, resistance and patient activity, cuff pressure. Visual representation of the ventilator dependency Real time waveforms: display of up to 8 waveforms Loops: simultaneous display of up to 4 loops, Display of Volume, Flow, airway pressure, auxiliary pressure, or CO2 Trending: 1 to 72 hours Built-in Air Turbine system with at least 10 years' warranty. Special functions should include nebulizer, manual breath, 100% O₂, Standby, sigh, apnea backup ventilation, tube resistance compensation. Cuff pressure Control system option should be present / external cuff pressure control and monitoring device can be connected. High flow oxygen therapy option should be present FTCO2 option should be present SPC2 Monitoring option should be present PEEP and CPAP ranges from 0 cmH₂O not less than 50 cm H₂O Oxygen from minimum range of 21% to 100% The inspiratory to expiratory ratio starting from 1:9 up to 4: 1 Operator adjustable alarms should include low/high minute volume, low/high pressure, low/high tidal volume, low/high rate, apnea time, low/high PetCO₂, and % leak 	05	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	20. Storage and display of not less than 1000 events with date and time	
	21. Should have back up batteries with at least 2 hour or more functionality22. Ventilator should also have low pressure oxygen port along with the connections	
	(including connector, tubing, etc.) for the portability of the ventilator.	
	23. Ventilator should be compatible with the institute central oxygen system pressure that is around 4 bar.	
	24. HUMIDIFIER: Servo Controlled Humidifier which balances the delivery of optimal humidity for the Invasive and NIV therapy with clinical usability and reduction of mobile condensation. One device supports multiple therapies for adult, pediatric and neonatal patients. Minimal circuit condensation which supports patient circuits having semipermeable material allow water vapor to diffuse through the tubing wall. It must have Flow sensor technology with built in algorithms to reduce circuit condensate. It can measure dual temperature and provide feedback to the system for maintaining optimal humidity. It allows clinicians to heat and humidify gases to target 37deg C for invasive and Nasal high flow therapies and 31deg C for non-invasive ventilation mode.	
	To be supplied with : Oxygen Hose pipe and probe (compatible with our existing oxygen point), patient breathing circuits for Neonate, Peads and Adults, supporting arm and original trolley, power cord, Humidifier along with it re-useable / Sterilizable chamber, Temperature probe & Heated wire.	
	Power Requirement:	
	Line voltages: 100-240VAC	
	Line Frequency: 50/60 Hz	
	Requirement:	
	Certification for both Ventilator & Humidifier:	
	should have Certification FDA 510(k) & CE/JIS/MHLW/JQAO	
	Warranty and Maintenance Period:	
	 Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty. (Battery, O2 Cell, Expiratory cover and membrane and all other parts are included in the warranty period). 	
	3. PPM must be done according to the OEM criteria in warranty period.	
	4. Service support and parts availability upcoming next ten years after installation of quoted model must be ensure via a separate letter by O.E.M.	
	 Required surety of service support and parts from the manufacturer, in case of transfer agency / distributor via undertaking by O.E.M. 	
	6. Up-time guarantee during warranty period must be 90-95%.	
	7. Response to breakdown during and after warranty period must be 1-3Hours.	
	Down Time:	
	If equipment is malfunctioning or not working properly then down time period	
	would start i.e., if machine remain out of order for more than one day; then one	
	and half day increase in contract of concerned equipment will be charged but if	
	any part required from manufacturer, then downtime period not calculated for a	
	month but after a month the down time should be calculated, are mentioned	
	below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Dolow 1570 7 5.5 days molease daily	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be provided.	
	2. In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based mandatory.	
	Demonstration:	
	Quoted model demonstration is mandatory in technical approval is subject to satisfactory demonstration.	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier).	
	COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT SURGICAL OPERATION MICROSCOPE FOR PLASTIC SURGERY	
13	 Specifications: Microscope in swiveable and tiltable suspension Mobile floor-stand with lock-in provision, equipped with brake system Rotatable joint arms Overhead clearance Effortless positioning in all directions via gross focus handles for all movements in plastic surgery, with hand controls for all functions Automatic balancing Active vibration damping. Motorized XY adjustment / movement Variable internal focal length adjustment / focusing from 200 to 600 mm or better Motorized zoom 1:6 Tiltable eyepiece head (binocular tube) 0 to 180° with IPD adjustment Wide angle oculars (eyepieces) 10X with dioptric fixation / adjustment – Two Pcs. Fully integrated LED illumination offering natural colors for optimal visualization of the surgical field Footswitch with functions, waterproof, wired One set of sterilizable caps Dust cover Integrated beam splitter for attachment of accessories for documentation and co-observation Full High Definition (1080p) Color Video Camera, integrated in the optical band 	01
	 10. Full High Definition (1000p) Color Video Camera, integrated in the optical head 19. Integrated recorder with USB port for recording. External HD Recorder for recording on USB media option should be present. 20. 21" or better Integrated touch screen monitor 	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	 21. Component for Plastic Surgery (Stereo Bridge) for co-observation in face-to-face position, with Tiltable eyepiece head (binocular tube) 0 to 180° with IPD adjustment and two wide angle oculars (eyepieces) 10X with dioptric fixation / adjustment. 22. Operable on 220 V AC, 50 Hz 	
	Power Requirement:	
	Line voltages: 100-240VAC	
	Line Frequency: 50/60 Hz Requirement:	
	Certification:	
	System should have Certification FDA 510(k) & CE/JIS/MHLW/JQAO	
	Warranty and Maintenance Period:	
	1. Warranty Period required 5 years with maintenance and parts replacement.	
	 All the parts are included in the warranty. (LCD, LED of illumination, Keypad, 	
	Recorder and Camera and all others parts are included)	
	3. PPM must be done according to the OEM criteria in warranty period.	
	 Service support and parts availability upcoming next ten years after installation of 	
	quoted model must be ensure via a separate letter by O.E.M.	
	 Required surety of service support and parts from the manufacturer, in case of 	
	transfer agency / distributor via undertaking by O.E.M.	
	6. Up-time guarantee during warranty period must be 90-95%.	
	 7. Response to breakdown during and after warranty period must be 1-3Hours. 	
	Down Time:	
	If equipment is malfunctioning or not working properly then down time period would start i.e., if machine remain out of order for more than one day; then one and half day increase in contract of concerned equipment will be charged but if any part required from manufacturer, then downtime period not calculated for a month but after a month the down time should be calculated, are mentioned below; 90% → No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be provided.	
	2. In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based mandatory.	

S.NO.	NAME AND	SPECIFICATION OF ITEMS	U.O.M
		ommissioning and Maintenance (Including all type the installation) are the responsibility of awarded	
	COUNTRY OF ORIGIN: UK / US/	A / EUROPE / JAPAN OR EQUIVALENT	
14	LOW TEMP PLASMA CAPACVolumeChamber TypeDoor typeSterilizing AgentTotal Cycle Time Approx.Cycle TemperatureSAL (Sterility Assurance Level)By-ProductsLumen ClaimsMaterialDisplayinformationControlDry systemmoistureCycle InformationPM CyclePlacementPrinterCycle ParametersAlarm & Error DisplayOthersPower Requirement:Line voltages: 100-240VACLine Frequency: 50/60 HzRequirement:Warranty and Maintenance Perion8. Warranty Period require9. All the parts are included i	 TTY Total : 130 Liters or more Rectangular Double Door System, operated by touch screen and sensor or better Hydrogen Peroxide, 20 Cycles / Bottle or better Quick 30+5 Min or better Standard 40+5 Min or better Standard 50+5 Min or better So±5°C, Rapid Warmup & Dry System 10-6 Oxygen And Vapor Water Only Rigid Lumen & Flexible Lumen, Endoscopes Stainless Steel(SUS) 7" or more touch LCD, Easy Monitoring the Cycle Microprocessor Rapid warm up and drying system to remove the And long lumen penetration up to 2000 mm Screen, Printer, USB Automatic Alarm & Setup Built-in Wheels for Mobility Built-in Thermal Printer (Temp, Pressure, Time, Daily & Total Cycle, Etc.) Emergency Stop(Front), Operator ID Login, Self- Diagnosis, Multi-Language, RFID Coding System 	01
	 8. Warranty Period require 9. All the parts are included in all others parts are included 10. PPM must be done according 11. Service support and parts and parts	d 5 years with maintenance and parts replacement. in the warranty. (LCD, Printer, Keypad, Recorder and	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	12. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	
	13. Up-time guarantee during warranty period must be 90-95%.	
	14. Response to breakdown during and after warranty period must be 1-3Hours.	
	Down Time:	
	If equipment is malfunctioning or not working properly then down time period	
	would start i.e., if machine remain out of order for more than one day; then one	
	and half day increase in contract of concerned equipment will be charged but if	
	any part required from manufacturer, then downtime period not calculated for a	
	month but after a month the down time should be calculated, are mentioned	
	below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	5. Operating and service manual with troubleshooting and circuit diagram must be provided.	
	6. In house operator training session for end user.	
	7. In house service training session by Principal Certified resource	
	8. Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier). Country of Origin: USA / Europe / JAPAN / UK should have FDA 510(k) / CE (MDD) / JIS /JQAO/ MHLW. Manufacturer from other Countries (other than USA, Europe or Japan) should have FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	
15	 OXYGEN GENERATION PLANT 160 CUBINC METER PER MINUTE Pressure swing absorption (PSA) technology. 80 m³/h Duplex system means total capacity will be 80+80= 160 m³/h. PSA with reservoir tank, Air Compressor Units, Air Dryer, Filter and Air Reservoir & all other parts (02 Separate Units in Quantity with respect to the Duplex System). Plug & play component for simple installation on site Service indications and relevant alarms. The outlet oxygen purity shall be 93% +/- 3% Oxygen outlet pressure 5.0 bar (g) or more The generator vessels shall contain chemically produced zeolite to adsorb specific 	01

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
5.10.	 The system shall operate at a maximum ambient temperature of 45°C. The generator will require a single phase low voltage 110-240V 50-60Hz supply. In order to protect the zeolite, the inlet air dewpoint shall be monitored with a PDP sensor and an alarm shall be triggered when the dewpoint is too high. They shall be protected by a safety pressure relief valve and include a pressure gauge. These valves shall be suitable for oxygen use. A silencer shall be included to reduce the noise level during the regeneration process. Non-return valves shall be included to avoid back flow from the outlet of the generator. The oxygen generator shall include an oxygen sensor for continuous measurement of oxygen purity and shall be provided with a calibration certificate. Oxygen sensor using long-life and low-maintenance technology to extend the period between sensor recalibration. Digitally shown oxygen purity and flow rate (Total consumption of oxygen) on generator screen User-friendly high-definition display with clear pictograms and indicators, providing easy access to system operational information. On screen alarms: Low pressure, Low oxygen purity, Low oxygen purity shutdown, high flow, High dew point, High dew point shut-down and etc. The oxygen vessel shall be of steel construction and shall be adequately sized to 	
	 ensure oxygen pressure during nominal operation. The vessel shall be protected by a safety pressure relief valve and include a pressure gauge. <u>Air Compressor</u> Compressors should be oil-free screw compressors suitable for both continuous and frequent start/stop operation at a nominal outlet pressure of 7.5 to 10 bar gauge. Compatible with the Oxygen generation plant of 80 m³/h Noise level: 80 dB or better 	
	 Dryer Compatible with Oxygen generation system of 80 m³/h and Air compressor The dryer should be refrigerant dryer and shall include a simple plug & play concept. Pressure shall be self-regulating. The dryer shall be able to reach 3°C PDP at 45°C with nominal flow. The dryer shall include the following components: Refrigerant Circuit: Refrigerant separator, Refrigerant compressor, Maximum pressure switch and fan control switch, Condenser fan, Condenser, Capillary filter, Capillary tube, Hot gas bypass Air Circuit: Air inlet, Air to refrigerant heat exchanger, Air/heat exchanger, Water separator, Automatic drain, Air outlet 	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	 Filters High efficiency filters shall be used to remove oil aerosols, solid particles, and liquid droplets and dust particles. An additional oxygen-approved filter shall be included at the outlet of the oxygen buffer vessel to protect against zeolite dust particles. Filtration according to the recommendation of the principle and according to city environment and temperature 	
	 Air Receiver Assembly The air receiver should be supplied with relevant test certificates. Each air receiver shall be fitted with a zero loss electronic drain valve. Float type drain valves are not acceptable. The receiver assembly should be fitted with a pressure safety valve, set at 10% receiver overpressure. Air reservoir assembly must include a pressure gauge. 	
	Note:	
	 Only copper pipe must be used as material. In all type of connection in the Air compressor side as well as oxygen generation side. Vendor/supplier will be responsible for the commissioning and installation of the oxygen generation plant including site preparation, site renovation, electrical wiring, electrical DB, room temperature, room ventilation and humidity related work and part Room temperature, ventilation and humidity for the complete system will be responsibility of the supplier/vendor. Supplier/Vendor will be responsible for the proper filtration of the air required for the zeolite and filtration of the oxygen required for the institute. Supplier/Vendor will be responsible to ensure the all safety check. Supplier/Vendor will perform complete PPM in the warranty period including all parts and consumable (filter, muffler, valve and etc.) 	
	Power Requirement: Line voltages: 100-240VAC Line Frequency: 50/60 Hz Requirement: Certification: System should have Certification FDA 510(k)/CE/JIS/MHLW/JQAO Warranty and Maintenance Period:	
	 Warranty Period required 5 years with maintenance and parts replacement. All the parts are included in the warranty. (Compressors, Oxygen Sensor, Flow analyzer and all other parts are included) Zeolite 10 years warranty from manufacturer. 	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	4. PPM must be done according to the OEM criteria in warranty period and	
	consumable like filters and Oil Grease all are whichever needed bidder / vendor	
	responsibility till the warranty period.	
	5. Service support and parts availability upcoming next ten years after installation of	
	quoted model must be ensure via a separate letter by O.E.M.	
	6. Required surety of service support and parts from the manufacturer, in case of	
	transfer agency / distributor via undertaking by O.E.M.	
	7. Up-time guarantee during warranty period must be 90-95%.	
	8. Response to breakdown during and after warranty period must be 1-3Hours.	
	Down Time:	
	If equipment is malfunctioning or not working properly then down time period	
	would start i.e., if machine remain out of order for more than one day; then one	
	and half day increase in contract of concerned equipment will be charged but if	
	any part required from manufacturer, then downtime period not calculated for a	
	month but after a month the down time should be calculated, are mentioned	
	below;	
	90% \rightarrow No Down Time	
	Below 90% \rightarrow 1.5 days increase daily	
	Below 75% \rightarrow 3.5 days increase daily	
	Below 50% \rightarrow 5 days increase daily	
	Trainings & Manual:	
	1. Operating and service manual with troubleshooting and circuit diagram must be	
	provided.	
	2. In house operator training session for end user.	
	3. In house service training session by Principal Certified resource	
	4. Trained Service Engineers with certification from the principle, Karachi based	
	mandatory.	
	Note:	
	Safely installation of said equipment and dismantling of old installed said	
	equipment should be responsibility of awarded firm/supplier.	
	Sumply Installation Testing Commissioning and Maintenance (Including all time	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded	
	firm/supplier with electrical, Civil and mechanical works).	
	COUNTRY OF ORIGIN: UK / USA / EUROPE / JAPAN OR EQUIVALENT	
	PORTABLE LAPTOP BASED COLOR DOPPLER ULTRASOUND MACHINE Specifications	
	 High resolution 15 inch or more LCD/LED. 	
	 Screen should be anti-flickering technology. 	
16	 Machine opening angle of 130° or more. 	01
	• Full screen image zoom.	
	• Frame Rate: 200 fps or more	
	• 1 active probe connectors or more, should be extendable to 3 connectors.	
	1-hour or more built-in battery backup	

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	• 320 GB hard drive or more.	1
	• 6 kg weight or less.	
	• USB Ports for data transfer.	
	 Video/HDMI ports for external monitor connectivity. 	
	• Built-in DICOM Compatibility (3.0 with all components).	
	Standard Operating Modes	
	• B mode, M mode, Tissue Harmonic Imaging mode, Pure Inversion Harmonic Imaging	
	mode, Power Doppler Imaging mode, Directional Power Doppler Imaging mode, , Tissue	
	Doppler Imaging mode, Color Flow mode (CFM), PW mode, CW mode, Spatial	
	Compound imaging mode, Trapezoid imaging mode, Noise reduction technology,	
	Anatomical M Mode, Color M mode.	
	B-Mode	
	• Digital image zoom of 1–10 times or more.	
	• Dynamic range: 30db – 200db or better.	
	• Grayscale level: 256 or better.	
	 Focus points: Should be multiple and adjustable focus points 	
	• Cine loop: 800 frames or better.	
	• Adaptive image fusion: 10 types selectable or more.	
	• Scanning Depth: 40 cm or better.	
	• Frequency: 5 bands or mode. Should be adjustable.	
	Line Density: 3 levels or more. Should be adjustable	
	 Needle Enhancement feature for biopsy procedures. Needle Guide Eurotion: (a) Needle lines angle adjusteble (b) Needle lines offset 	
	• Needle Guide Function: (a) Needle lines angle adjustable (b) Needle lines offset adjustable.	
	Grayscale Curve: 5 or more selectable.	
	Auto image enhancement function.	
	Color Doppler Mode	
	Color Flow Invert.	
	 PW/CW Spectrum Invert. 	
	 Frequency Range: 5 steps or more. Should be adjustable. 	
	• Wall Filter: 20 – 700Hz or better.	
	• PRF: 1 – 12 kHz or better (CDI).	
	• Line Density: 4 levels or more.	
	• Color baseline adjustment: ±10 steps or better.	
	• Auto image enhancement function: (a) Auto Adjusting Baseline, (b) Auto Adjusting	
	PRF.	
	• Triplex Mode.	
	• Dual-Live Display.	
	• Sample Volume and Position for PW Doppler: 1 – 20 mm or better.	
	• Real-time Trace of PW/CW Spectrum.	
	Measurements and Calculations	
	• To provide Comprehensive Software Package for Measurement of Distance,	
	Circumference, Area, Time, Depth, ANGLE, IMT, Velocity, Frequency, Heart Rate, Volumes.	
	• Auto-calculation: Auto IMT, Auto PW/CW Trace, Real-time auto trace.	
	• All measurement Software to be provided as a Standard.	

Transducers

S.NO.		NAME AND SPECIFICATION OF ITEMS	U.O.M
	•	Multi frequency Convex Probe $(2.0 - 7.0 \text{ MHz or better})$.	
	•	Multi frequency Linear Probe (4.0 – 15.0 MHz or better).	
	Sv	ystem Complete with Following Configuration	
	-	Portable color Doppler unit with original OEM trolley.	
	•	Compatible imported online (pure sine wave) UPS with battery backup.	
		ECG Leads.	
		Ultrasound Gel.	
		User's Manuals.	
	•	Digital B/W Thermal Printer with Paper Rolls	
		Requirement:	
		oltages: 100-240VAC	
		requency: 50/60 Hz	
	-	rement:	
		nty and Maintenance Period:	
	1.	Warranty Period required 5 years with maintenance and parts replacement.	
		All the parts are included in the warranty. (LED, Keypad and all others parts are included)	
	3.	PPM must be done according to the OEM criteria in warranty period.	
	4.	Service support and parts availability upcoming next ten years after installation of	
		quoted model must be ensure via a separate letter by O.E.M.	
	5.	Required surety of service support and parts from the manufacturer, in case of	
		transfer agency / distributor via undertaking by O.E.M.	
	6.	Up-time guarantee during warranty period must be 90-95%.	
		Response to breakdown during and after warranty period must be 1-3Hours.	
	Down '		
	Down	If equipment is malfunctioning or not working properly then down time period	
		would start i.e., if machine remain out of order for more than one day; then one	
		-	
		and half day increase in contract of concerned equipment will be charged but if	
		any part required from manufacturer, then downtime period not calculated for a	
		month but after a month the down time should be calculated, are mentioned	
		below;	
		90% \rightarrow No Down Time	
		Below 90% \rightarrow 1.5 days increase daily	
		Below 75% \rightarrow 3.5 days increase daily	
		Below 50% \rightarrow 5 days increase daily	
	Traini	ngs & Manual:	
	1.	Operating and service manual with troubleshooting and circuit diagram must be	
		provided.	
	2.	In house operator training session for end user.	
	3.	In house service training session by Principal Certified resource	
		Trained Service Engineers with certification from the principle, Karachi based	
		mandatory.	

Demonstration:

S.NO.	NAME AND SPECIFICATION OF ITEMS	U.O.M
	1. Quoted model demonstration is mandatory in technical approval is subject to satisfactory demonstration.	
	Note: Safely installation of new OT light and dismantling of old installed OT light should be responsibility of awarded firm/supplier.	
	Supply, Installation, Testing, Commissioning and Maintenance (Including all type of work for the completion of the installation) are the responsibility of awarded firm/supplier).	
	Country of Origin: USA / Europe / JAPAN / UK should have FDA 510(k) / CE (MDD) / JIS /JQAO/ MHLW.	
	Manufacturer from other Countries (other than USA, Europe or Japan) should have FDA (510k) and CE / (MDD) / JIS / JQAO / MHLW.	

Note:

• Financial proposal must be submitted on company letter head duly signed and stamped. Bidder is required to type their offer in figure and as well as in words of the total amount; else the offer would be rejected.

Signature of Manufacturers /Importers/Sole Agents/Contractors

Name of Medical Store		
Full Address		
Telephone No. Office	Cell No:	
Email Address (if any)		

BID LETTER FORM

From: (Registered name and address of the bidder) To: Executive Director, Shaheed Mohtarma Benazir Bhutto Institute of Trauma, Karachi –74200

Dear Sir,

Tender Title: ____

We undertake to provide services/execute the above project or it part assigned to us in conformity with the said bidding documents for an estimated sum of Rs. (Rupees)(total bid amount in words and figures) which may vary in accordance with the schedule of prices attached herewith and coverage options made by SMBBIT or its user organization.

If our bid is accepted, we undertake to;

- 1) Provide services/execute the work according to the time schedule specified in the bid document,
- 2) Obtain the performance guarantee of bank in accordance with bid requirements for the due performance of the contract, and
- 3) Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.
- 4) We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place: signature Date: Bidder's

and seal.

CONTRACT FORM

THIS AGREEMENT made theDay of(year) Between the Procuring Agency (hereinafter "The SMBB INSTITUTE OF TRAUMA") of one part and(Name of Vendor) of(City and country of Vendor) (Hereinafter "the Supplier") of the other part: WHEREAS the SMBB INSTITUTE OF TRAUMA is desirous that certain Supplies, as described in the bid document and briefly outlined below, should be provided by the Vendor. Date of tender call: Title of the project:

Brief outline of the work:

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS;

In this agreement words and expression shall have the same meanings as are respectively assigned to them in the bid document referred to.

The following document shall be deemed to form and be read and construed as part of this Contract, viz.

- 1) Bid document(s)
- 2) Pre-bid conference minutes (if any),
- 3) Clarification on bid document issued (if any),
- 4) SMBB INSTITUTE OF TRAUMA notification of award.

In case of conflict among documents mentioned above, the documents mentioned above in reverse order will prevail over other documents. In consideration of the payments to be made by the SMBB INSTITUTE OF TRAUMA to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the SMBB INSTITUTE OF TRAUMA to (<u>Tender Title</u>..) and to remedy defects therein conformity,

in all respects, with the provisions of the contract.

The SMBB INSTITUTE OF TRAUMA hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

Brief particulars of the services which shall be supplied / provided by the Supplier areas under:

Solutions, service or material	Quantity	Unit price	Amount	Remarks

IN WITNESS whereof the parties hereto have caused this Agreement executed the day and year above written.

Signed, sealed, delivered by	the (for the
Procuring agency)	
Signed, sealed, delivered by	the (for the
Supplier)	

FORM OF PERFORMANCE SECURITY (Bank Guarantee)

Guarantee No. _____Executed on: Expiry date: _____

[Letter by the Guarantor to the Employer]

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

Name of Principal (Contractor, Manufacturer, Supplier or any bidder) with complete address:

Penal Sum of Security (express in words and figures):

Letter of Acceptance No: ______Dated: _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the are of the said Principal we, the Guarantor above named, are held and firmly bound unto the Executive Director, SMBBIT, Karachi (here in after called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, 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 accepted the Contract) Employer's above said Letter of Acceptance for (Name for of the _____(Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents- during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modificationstotheGuarantorbeingherebywaived,then,thisobligationtobevoid;otherwiseto remain in full force and virtue till all requirements of Condition of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We,_____(the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration

that the principal has refused or failed to perform the obligations under the Contract which payment will be affected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the principal(Contractor) has duly performed his obligations under the Contractor has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the principal or any other person.

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

Witness:	
Guarantor (Bank)	
1Signature:	(Name, Title, Signature &Seal)
2.	Name:
(Name, Title, Signature Seal)	Title:

(ANNEX-F)

AFFIDAVIT (On Judicial Stamp Paper)

I/We, the undersigned [Name of the Supplier] hereby solemnly declare and undertake that:

- 1. I/We have read the contents of the Bidding Document and have fully understood it.
- 2. The Bid being submitted by the undersigned complies with the requirements enunciated in the bidding documents.
- 3. The Goods that we propose to supply under this contract are eligible goods within the meaning of this SBD.
- 4. The undersigned are also eligible Bidders within the meaning of the Standard Bidding Documents.
- 5. The undersigned are solvent and competent to undertake the subject contract under the Laws of Pakistan.
- 6. I/We have not paid nor have agreed to pay, any Commissions or Gratuities to any official or agent for SMBB Institute of Trauma related to this Bid or Award or Contract.
- 7. I/We are not blacklisted or facing debarment from any institute of Federal, Provincial Government or any Department /Agency/Organization/Autonomous body or Private Sector organization anywhere in Pakistan.
- 8. That undersigned has not employed any child labor in the organization/unit.
- 9. I/We understand that the Selection and Rate Contracting Committee of the Procuring Agency is not bound to accept the lowest or any other bid they may receive.

I/We affirm that the contents of this affidavit are correct to the best of our knowledge and belief.

Signatures with stamp Name: _____ Designation: _____

CNIC No. (Copy m

For Messrs. [Name of Supplier]

INTEGRITY PACT

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

Contract Number:	
Contract Value:	
Contract Title:	

NO. Rs. Dated:

M/s.______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,	M/s.
							repres

ents 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, SMBBIT Karachi (PA), except that which has been expressly declared pursuant hereto.

M/s.______ 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.

M/s.______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, M/s.

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 givenby**M/s.** ______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.

Executive Director (D.D.O)

M/s.