

BIDDING DOCUMENTS

CIVIL HOSPITAL KARACHI

HEALTH DEPARTMENT

GOVERNMENT OF SINDH

Contract NO:- PD-Trauma Centre-CHK/041 (Rev) 2015-16

Supplying, Installation, Testing, Commissioning & Maintenance
(during maintenance period) of

Medical Equipment for the project

“Shaheed Mohtarma Benazir Bhutto Accident, Emergency & Trauma
Centre and Ancillary Services Complex at Civil Hospital Karachi”

VOLUME-I

**INSTRUCTIONS TO BIDDERS, SALIENT FEATURES
/ TERMS & CONDITION OF THE TENDER,
ESSENTIAL REQUIREMENTS / EVALUATION
CRITERIA, FORM OF AGREEMENT, SCOPE OF
WORK AND SPECIFICATIONS**

SUMMARY OF CONTENTS

S.NO	DESCRIPTION	PAGE
1.	TITLE	1
2.	SUMMARY OF CONTENTS	2
3.	INSTRUCTIONS TO BIDDERS	3 TO 4
4.	SALIENT FEATURES / TERMS & CONDITION OF TENDER QUESTIONNAIRE / PROFORMA – EVALUATION CRITERIA	5 TO 16
5.	FORM OF AGREEMENT	17 TO 18
6.	SCOPE OF WORK / BILL OF QUANTITIES / SPECIFICATION (TECHNICAL)	19 TO 25

INSTRUCTIONS TO BIDDERS

1. **Civil Hospital Karachi** invites sealed bids on single stage two envelopes system as per Sindh Public Procurement Rules 2010 (Amended 2013) from Manufacturers/Importers/Sole Agents/Contractors for “*Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Medical Equipment** for the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi*”, (Contract No. **PD-Trauma Centre-CHK/041 (Rev) 2015-16**).
2. Bidders are required to check that Tender Documents issued to them are complete in all respects as per Summary of contents related to Instructions to Bidders, Salient Features, Evaluation Criteria, Form of Tender, Form of Agreement, Specifications (Technical), Scope of Work, Drawings etc.
3. Bidders should examine carefully the Summary of Contents. 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 the office of the Project Director before bidding. Once the Tender is submitted, it will be assumed that no further clarification was required.
4. The rates to be inserted in the Bill of Quantities shall be deemed to include all costs of whatsoever description and expenses necessary for the Supply, Installation, Testing, Commissioning and Maintenance of the Equipment/system 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.
5. No authorized alteration may be made in the Tender documents. If any such alteration is made, tender may be liable for rejection.
6. Any clarification, revision, addition or deletion, in the Tender documents may be made by the Project Director 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 Project Director and will become part of the Contract documents. Each Addendum shall be signed by the Tenderer and returned with other Tender documents.
7. 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 salient features of the Tender.
8. The Contractors whose Tender is accepted, by the Procurement Committee, will be required to enter into a Contract agreement as defined in the Form of Agreement.
9. 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.

10. The Tender documents referred to above constitute a part of this Tender and comprise of the following documents:
 - a) Instructions to bidders.
 - b) Salient Features / Terms & Condition of the Tender
Questionnaire / Proforma – Evaluation Criteria.
 - c) Form of Agreement.
 - d) Scope of work / Bill of Quantities / Specification (Technical).
 - e) The Addendum (if any).
 - f) The Drawings (if any).
11. The Contractors are required to submit the site Organization chart, methodology & work schedule along with Tender documents.

SALIENT FEATURES / TERMS & CONDITION OF THE TENDER

1.	Name of Work & Address	:	Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of Medical Equipment at “Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi” (Contract No. PD-Trauma Centre-CHK/041 (Rev) 2015-16).
2	Time & Date of issue of Tenders	:	From the date of publishing to one day before opening of Technical Proposal, during office hours.
3	Place of Issuance of Tender	:	Office of the Project Director, OPD-Block Civil Hospital Karachi.
4	Date of pre-bid meeting	:	In case requested by bidders or informed by Project Director.
5	Method of opening of Tender	:	It will be Single Stage Two Envelope system as per SPP Rules 2010 (Amended 2013).
6	Date & Time of Submission of Tenders	:	As published in newspapers
7	Date & Time of Opening of Tenders / Technical Proposals	:	As published in newspapers
8	Date of Opening of Financial Proposals	:	As informed by Project Director to all participants
9	Venue of submission & opening of Tenders	:	Board Room situated at Second Floor of the Administration Block of Civil Hospital Karachi.
10.	Validity of Tenders	:	90 days as per Sindh Public Procurement Rules, 2010 (Amended 2013).
11.	Amount of Earnest Money/Bid Security	:	1% of the Contract value in shape of pay-order / Call Deposit from schedule Bank to be submitted along with Financial Proposal.
12.	Supply of Equipment	:	Within three months after the opening of LC. However, this period is extendable as per mutual agreement/demand of the situation.
13.	Installation Period	:	It will start after three months of receiving of equipment at site.
14	Maintenance Period	:	It will start after the satisfactory installation of the equipment and issuance of Installation Certificate from the concerned official. This period will remain functional till two years with replacement of parts.
15	Warranty Period with replacement of Parts and services	:	The warranty period of parts with Free of cost replacement will be for two years. Two years free service from the date of Installation.
16 (a)	Contract Agreement	:	The Contractor shall enter & execute a formal Agreement as per the “Form” annexed with such modification as may be necessary, by the Project Director.
(b)	Stamp Paper requirement for Agreement.	:	- Rs. 0.30% of the Contract Value or as prescribed by Government Laws.

17	Terms of Payment to Contractors.	
(i)	Payment to Contractors on opening of L.C (Letter of Credit) by Contractor.	<p>: In case items are imported and supply order is placed on C & F basis, L.C. (Letter of Credit) will be opened by Contractors whom Purchase order is awarded, in the name of Medical Superintendent – Civil Hospital Karachi as Consignee. Contractors opening the LC with the Principals of Country of Origin will be paid 80% amount of the confirmed L.C.</p> <p>The LC should be opened within thirty days after receiving of the supply order from the Project Director.</p> <p>PLEASE NOTE THAT THE L.C ON TRANSHIPMENT BASIS IS NOT ACCEPTABLE</p>
(ii)	Payment of balance amount	<p>: All balance payments will be released after receiving of equipment at site subject to submission of Performance Security in the following manner;</p> <ul style="list-style-type: none"> • Pay-order equivalent to 5% of the value of Purchase order OR • Bank Guarantee equivalent to 10% of the value of Purchase order <p>The Performance Security will be released after successful installation of equipment and issuance of satisfactory Performance Certificate from the End-user.</p>
18	Release of Earnest Money/Bid Security of 2%	<p>: To un-successful bidders, after work is awarded. Earnest Money will be released to successful bidder after purchase order is released but after 5% Security Deposit is deposited as per item – 19.</p>
19	Security Deposit	<p>: 5% Security Deposit in the shape of two pay orders (2.5% each) will be submitted by Contractor with Project Director which will be released as per item 20. Bank Guarantee of equal amount will also be acceptable.</p>
20	Release of Security Deposit of 5%	<p>: After completion of maintenance or Defect Liability period of two years as under:-</p> <ul style="list-style-type: none"> • After satisfactory completion of maintenance period of Six Months – 2.5% • After satisfactory completion of maintenance period of two years – 2.5%
21	VARIATION IN CONTRACT PRICE.	<p>: NO VARIATION IN PRICE SHALL BE ALLOWED ON ANY GROUND INCLUDING CURRENCY FLUCTUATION/VARIATION OR WHATSOEVER.</p>
22	Discrepancy.	<p>: If there is any discrepancy between Salient Features of Tender/Bidding Documents and respective contents mentioned elsewhere, Salient Features / Terms & Conditions and Additional Terms & Conditions of Tender will govern.</p>
23	Taxes.	<p>: All taxes will be deducted as per prevalent laws of country.</p>
24	Approved makes.	<p>: As mentioned in items individually.</p>

25	SPECIAL NOTE REGARDING EQUIPMENTS	:	<p>TECHNICAL OFFERS / COMMERCIAL OFFERS FAILING TO DEMONSTRATE BELOW DETAILS WOULD BE REJECTED:</p> <p>a. QUOTED SYSTEM MUST BE OF ADVANCED & LATEST VERSION.</p> <p>b. TENDER MUST COVER COMPLETE EQUIPMENT.</p> <p>c. TENDER MUST COVER COMPLETE RANGE OF DISPOSABLES/ KITS</p> <p>d. TENDER MUST PROVIDE ALL TECHNICAL DETAILS UP TO THE SATISFACTION OF THE END USER.</p> <p>e. ITEMS SHOULD BE QUALITY APPROVED FROM THE CONCERNED INTERNATIONAL BODY OF THE RESPECTIVE INDUSTRY.</p>
26	Inspection of Imported equipment manufacturing site by the client.	:	After the award of Purchase Order, Supplier shall take two persons to the manufacturing site and bear all expenses of visit in case the cost of Supply Order is 50 million or above.
(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.
27	Maintenance.	:	Maintenance cost for all items for Two years from the date of successful Installation shall be undertaken by the Contractor (Maintenance includes all Parts & Labour, etc. with sufficient staff, during maintenance period).
28	Default in Preventive Maintenance, Breakdown and Emergency Calls.	:	<ul style="list-style-type: none"> • 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 Department 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.
29	COST TO BE QUOTED IN BOQ.	:	<ul style="list-style-type: none"> • The Contractors shall quote DDP and C&F price of the Equipments 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.
30	Tax Exemption.	:	In case of purchase on C&F basis , the required certificate will be issued by this office that the import has been made for this hospital, 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 2013).

GENERAL CONDITIONS

Note: No tender will be accepted after closing of the Tender box, whatsoever reason may be.

1. As the building is under construction and finishing is underway, the Contractors responsible for “Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Medical Equipment & Ancillaries**” will also repair all the damages done to the building while Installing **Medical Equipment & Ancillaries** at no extra-cost. So the Contractors should take into account all such expenditures while quoting the bid.
2. In **Technical Bid**, the bidder must provide original data sheet, technical brochure, all other relevant documents, alongwith copy of Pay Order / Bank Draft without showing the amount figure otherwise, the bid will be ignored/rejected. The technical evaluation will be done on the basis of criteria given in tender document.
3. A Column is given against the specification of each item, the vendor has to fill up with **YES / NO or put value as desired** in the column. **These specifications must be highlighted in the brochure, else the offer will be rejected.**
4. In **Financial Bid**, the vendor should mention financial offer alongwith Pay Order / Bank Draft 01% value of quoted items in favor of Project Director.
5. **In case of purchase on C&F Basis, the bidder will invest money to open Letter of Credit within thirty days after receiving the supply order and will bear all the charges in this regard. The required certificate will be issued by this hospital that the import has been made for this hospital, 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 2013).**
6. **In case of supply order placed on DDP Basis the bidder should be supplied the quoted item within time as specified in Tender Document i.e. three months. This period is extendable as per mutual agreement/demand of situation.**
7. The disclosure of firm's price at the time of opening of **Technical bid** will result in the rejection of the bid.
8. No tender will be entertained without earnest money. The earnest money will be forfeited to Government Treasury, in case of non-submission of security money within seven (7) days of receipt of the offer letter.
9. **Only Manufacturer and / or Authorized Agent (if importer) can quote items.**
10. First scrutiny of **Technical Bids** will be performed by the Procurement Committee. Financial Bids of only those firms will be opened who are qualified technically.
11. Certificate from the Sole Agent / Manufacturer has fully equipped Workshop Trained Personnel / Engineers and Equipment should be provided with technical bid and it can be physically verified by the administration of Civil Hospital Karachi.
12. The warranty period will commence from the date of installation of the Equipment at SMBB Trauma Centre - Civil Hospital Karachi.
13. **Firm must provide complete details of their financial standing, listing of similar items supplied in Pakistan, bio-data of engineers with training certificates / test, details of local stock of spare parts for similar furniture and details of office with number of personals.**
14. The vendor has to quote only one rate for each item as per tender specifications. Hand written tenders or any over writing, cutting, should be signed.
15. **Vendors should quote the items they intend to supply.**
16. **Quantity can be increased or decreased as per requirements.**
17. The bidder shall submit with the bid, an **UNDERTAKING** on Non-Judicial stamp paper of Rs. 50/- duly attested by Oath Commissioner, stating that the Equipments will be supplied brand new, free from defects as per the approved sample and will bind himself for availability of spares for a period of 10 years from the date of supply. In

- case of winding up of his business, the supplier shall be bound to make an alternate arrangement of spares and maintenance of Equipments. In case of default, depreciated cost of Equipments will be recoverable from vendor.
18. If it has been found that the information submitted by the bidder regarding his qualification and professional, technical, financial, legal or managerial competence as supplier / contractor is / was false and materially inaccurate or incomplete at any stage, then the bidder will be disqualified.
 19. Suppliers / Contractors will be responsible for supply at consignee end, free of cost and also responsible for free installation work, if required.
 20. Equipment will be handed over to the Project Director / Store officer of Civil Hospital Karachi.
 21. Price escalation will not be allowed.
 22. If vendor doesn't supply Equipments in accordance with the supply order or fails to supply according to terms and conditions or in case of any other default, the Performance Security and Security Deposit would be forfeited and further action as per SPPRA rule would be taken against such vendor.
 23. If the supplier fails to give supply and install within the stipulated period, Liquidated charges will be imposed.
 24. The decision once taken will be final and will not be challenged in any Court of Law.
 25. A copy of Income Tax and GST Registration Certificate should be attached alongwith **Technical Bid.**
 26. **Copy of Registration Certificate with Sindh Revenue Board.**
 27. Conditional Tender(s) against the Government rules and non-compliance of instructions mentioned in Tender Form & Hand written tender(s) will not be entertained.
 28. **The vendor should submit a Data Sheet according to the Tender Specifications Format mentioned in the tender and highlight the tender specifications in their Technical Data Sheet. Additional Features can be mentioned separately.**
 29. In case the information supplied by bidder in Questionnaire / Proforma is incomplete or incorrect, the Tender will be liable for rejection.
 30. The Medical Superintendent – Civil Hospital Karachi / Procurement Committee reserves the right to reject or accept any / all tender(s) as per SPP Rules, 2010 (Amended 2013).
 31. The offer will remain valid as per SPP Rules, 2010 (Amended 2013).

I / We agreed above mentioned terms & conditions:

Name of Contractor _____ Signature _____

(CNIC NO _____ (Copy must be attached).)

Full Address _____

Rubber Stamp _____

QUESTIONNAIRE / PROFORMA

(To be filled in by the vendor)

1. Name of institutions where the same items supplied with performance report

- In Pakistan _____
- In Karachi _____

2. Factory address _____

3. No. of Employees _____

4. In case of manufacturer	Yes	No
a. Registration with EOBI (Govt. of Pakistan)	----	----
b. Registration with Social Security (Provincial Government)	----	----
c. National Income Tax (Income Tax Department)	----	----
d. Sales Tax Registration	----	----

(Copies must be attached duly attested)

5. Spare parts Availability Guarantee (No. of years): _____

6. Equipment life period (number of years): _____

7. On call service charges (After expiry of maintenance period):

- Minimum: _____
- Per day: _____

8. In case of in house maintenance by Civil Hospital Karachi are you willing to provide following during post warranty period

	Yes	No
--	------------	-----------

- | | | |
|--|------|------|
| • Back up engineer support whenever requested: | ---- | ---- |
| • Prompt supply of spares | ---- | ---- |

9. Are you Sole Agent of manufacturer (for importer): _____

(If Sole Agent, a copy of Income Tax / GST Registration should be attached)
Otherwise the offer will be ignored / rejected.

10. Year of Establishment of manufacturing unit _____

11. Warranty period (please provide following details):

- Uptime Guarantee: _____ %
- Response time to maintenance requested: _____ Hours

12. Briefly state facilities and benefits provided during warranty period:

Supplier's Name: _____

Authorized Signature: _____ Designation _____

_____ Rubber Stamp _____

Contact No. _____ Fax No. _____ Cell No. _____

E. mail address: _____

TECHNICAL EVALUATION CRITERIA

MANDATORY REQUIREMENTS:

1. Certificate of Registration with Income Tax, Sales Tax Departments

2. Affidavit regarding Blacklisting & Litigation

- The bidder should submit an affidavit that firm has never been blacklisted by any government, semi-government department or any other organization.
- The bidder should submit an affidavit that firm is not involved in Litigation with any government, semi-government department or any other organization.

QUALIFYING MARKS – 70

DOCUMENTARY EVIDENCE MUST BE ATTACHED.

S.No.	DETAILS	Maximum Marks
1.	<u>Establishment of Firm since</u> More than three years – 05 marks More than five years - 10 marks (As per attached Proforma “A”)	10
2.	<u>Major Institution Served during last year</u> a. Less than 5 institution – 05 marks b. Up to or more than 5 institution – 10 marks (As per attached Proforma “B”)	10
3.	<u>Previous Performance of similar works</u> a. More than 3 years – 30 marks b. Up to 3 years – 20 marks (As per attached Proforma “C”)	30
4.	<u>Man Power Requirement</u> 1. Must have proper well established workshop (Procurement Committee may visit the same) 2. Must have certified technical staff (Certificates must be attached) with other staff on ledger (List of persons be attached)	10 (05 marks for each)
5.	<u>Bank Certificate</u> Bank Certificate that the bidder can perform business upto Rs.25.000 million or above.	10
6.	<u>Financial Soundness of the Firm</u> The bidder should submit following: a. Bank Statement for last 3 years with Bank Letter b. Audited Balance Sheet & Income Tax Returns for last 3 years	20 (10 marks for each)
7.	<u>Questionnaire / Proforma (Mandatory)</u> Page 10 & 11 of the Bidding Documents	10
		<hr/> TOTAL 100 MARKS <hr/>

ESTABLISHMENT OF FIRM

1.	Name of Firm:			
2.	Head Office Address:			
3.	Regional Office Address:			
4.	Telephone:		Mobile: Fax: E-mail:	
5.	NTN Number: (Attach copy)			
6.	GST Number: (Attach copy)			
7.	Year of Establishment from the date of Registration of NTN (more than five years minimum)			

MAJOR INSTITUTION SERVED DURING LAST YEAR

(Use separate sheet for each work)

1.	Name of Institution:
2.	Address of Institution:
3.	Name of Contract:
4.	Place of Execution / City:
5.	Letter of Award No.
6.	Value of Contract: Pak Rupees
7.	Date of Award: <div style="text-align: right;">(Proof)</div>
8.	Date of Completion: <div style="text-align: right;">(Proof)</div>
9.	Duration of Contract:

PREVIOUS PERFORMANCE OF SIMILAR WORKS

(Use separate sheet for each work)

1.	Name of Contract:
2.	Place of Execution / City:
3.	Name of Employer:
4.	Address of Employer:
5.	Letter of Award No.
6.	Value of Contract: Pak Rupees
7.	Date of Award: <div style="text-align: right;">(Proof)</div>
8.	Date of Completion: <div style="text-align: right;">(Proof)</div>
9.	Duration of Contract:

BID EVALUATION CRITERIA

- a. Specifications compliance.
- b. After sale service facility (The Vendor should submit an undertaking on Non-judicial Stamp Paper of Rs. 50/- alongwith Technical Proposals for the same).
- c. Authority letter from Manufacturer where applicable.
- d. Guaranty of availability of parts of the supply articles for 10 years.
- e. Compliance of Terms & Conditions and Additional Terms & Condition of the Bid Form.

FORM OF AGREEMENT

1. THIS AGREEMENT made this _____ day of _____ Between Messrs. Project Director “Shaheed Mohtarma Benazir Bhutto, Accidents, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi” being hereinafter called the “OWNER” which expression shall, wherever the context so permits, mean and include its successors in interest, executors, administrators, liquidators, nominees and assignees of the ONE PART, and Messrs. _____ hereinafter called the “CONTRACTOR”, which expression shall, wherever the context so permits, mean and include its heirs, successors in interest, executors, administrators, liquidators, nominees and assignees of the OTHER PART.

WHEREAS:

- a. The Owner had invited tenders from various contractors for *Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of Medical Equipment for the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi (Contract No. PD-Trauma Centre-CHK/041 (Rev) 2015-16)* in accordance with the requirements, drawings, plans and instructions prepared by the owner, and contained in the tender documents issued by the Owners.
- b. In response to the invitation of the Owner, the Contractors have tendered their quotations and rates and have offered to carry-out the supply, completion and maintenance of the aforesaid project and facilities in accordance with the requirements, conditions of contract, documents, standard quality, plans, drawings and instructions of the Owner.
- c. The Owner is willing and agreeable to accept the aforesaid quotation, rates and offer of the Contractor on the various terms and conditions specified herein and in the documents listed is Clause-1, below.

NOW THEREFORE, THIS AGREEMENT WITNESSETH and in consideration of the mutual covenant and condition set forth herein, the parties hereto, do hereby agree, undertake and declare as under:-

1. The Following documents, hereinafter called “Contract Documents” shall be deemed to form, read and construed as an integral part of this Agreement:-
 - a. Tender documents including Addendum.
 - b. Contractor’s bid letter No. _____ dated _____.
 - c. Relevant Correspondence.
 - d. Letter of Award No. _____ dated _____.

Tender S. No.	Description of Items	Rate on CIF / DDP Basis	Quantity Ordered	Total value in figures
1.				

2. Notwithstanding anything contained to the contrary or in conflict with the provisions of this agreement in any of the documents mentioned in Clause – 1, above, the provisions of this agreement shall prevail and the documents mentioned above shall be deemed to have been amended to the extent of inconsistency found therein, by the provisions of this Agreement, In case of inconsistency between any of the documents

referred to herein, the later documents shall prevail and the tender documents shall be construed to have been amended to that extent.

3. In consideration of the Contractors supply, completing and maintaining the work, as described heretofore, in conformity in all respects with provisions of this contract to the entire satisfaction of the owner, and the Contractor acting, abiding and performing his duties and obligations strictly in accordance with the terms and conditions herein and documents of the contract mentioned hereinabove, the Owner shall pay to the Contractor amount as per contract documents listed above.
4. This contract shall not be transferable or assignable in whole or part of any of the parties hereto, provided that the Owner may assign his rights and obligations in whole or in part to any other Company which shall be entirely owned Company belonging to the same Group of the Companies as the Owner, In such an event such other Company shall be entitled to act as Owner under this contract.

IN WITNESS WHEREOF the parties hereto, acting through their respective representative, have caused this agreement to be signed, sealed and delivered in their respective names on the day and the year first mentioned hereinabove.

SIGNED, SEALED AND DELIVERED
In the name and for and on
Behalf of the Owner / PROJECT DIRECTOR

NAME: _____

DESIGNATION: _____

WITNESS:

1. NAME: _____

ADDRESS: _____

2. NAME: _____

ADDRESS: _____

SIGNED, SEALED AND DELIVERED
In the name and for and on
Behalf of the CONTRACTOR

NAME: _____

DESIGNATION: _____

WITNESS:

1. NAME: _____

ADDRESS: _____

2. NAME: _____

ADDRESS: _____

SUPPLY ITEMS / SCOPE OF WORK – SPECIFICATIONS (TECHNICAL)

Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) of **Medical Equipment** for the project Shaheed Mohtarma Benazir Bhutto, Accident, Emergency & Trauma Centre and Ancillary Services Complex at Civil Hospital Karachi
(CONTRACT NO. PD-TRAUMA CENTRE-CHK/041 (REV) 2015-16)

S.No	Specification	Qty	Unit	Yes / No / Put desired value
(1)	(2)	(3)	(4)	(5)
01	<u>Hand Held Doppler</u> <ul style="list-style-type: none"> • Large Display LCD or graphic for indication of heart-rate and battery status • Superior sound quality from high-fidelity speaker • Extended battery life • Enhanced probe sensitivity • Interchangeable probe capability • User replaceable cable • Powered by 3 AA batteries • Each main unit comes with choice of one probe • Full 2years warranty • Consisting of 5 Mhz probes bi-directional • Interchangeable probes. <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, EEC, Japan or Equivalent</p>	01	Unit	
02	<u>Bedside Internal Feeding Pump</u> <ul style="list-style-type: none"> • Flow rate: 1ml/h-300ml/h • Preset dose Volume: 0-999ml • Indicate total volume: 0-999ml • Flow error: 10% • Internal battery: 9.6V ± 2V • Power: AC220V± 22V 50Hz± 1Hz • Power Input: 13.5 VA • Operation Temperature: -5-40 °C • Relative Humidity: 70% • Alarms: Flow error / Low battery / AC power error / Preset should be finished. <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: UK, USA, Japan or Equivalent</p>	05	Units	
03	<u>Rock’N Roller (Tube Mixer)</u> <ul style="list-style-type: none"> • Must consist 5 rollers • Speed 30-50 RPM • Rotating and rocking action. • Accepts stoppered cylinder-mixing vessels. • Can be loaded or unloaded while rollers in motion. • Speed at 220V/50 Hz, 30 RPM. <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, EEC, Japan or Equivalent</p>	01	Unit	

04	<u>Medical Plasma Freezer 86°C ultra low temperature VIP (microprocessor control DD of chamber) sliding double door Dicom Complete</u> <ul style="list-style-type: none"> • Atleast min. 20 to 25 installtion at Karachi. • Capacity: 600 to 700 Litres • Power: 1200 W • Temperature Control: Microprocessor Control • Temperature range: -40 ~ -86 °C • Voltage: 220V / 50Hz, 220V / 60Hz, 120V / 60Hz • Shelves: 2 to 4 • Inner Door: Single • Rack Quantity: 2 inch stainless steel rack 4x4 • Box Quantity: 320 • Interior Dimension: 760 x 630 x 1300 (WxDxH) • Net Weight: Approx. 300 kg • Gross Weight: Approx. 325 kg <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, EEC, Japan or Equivalent</p>	01	Unit	
05	<u>Micropipettes 10-100ul, 100- 1000ul Adjustable, 100ul, 50ul,10ul Fixed Volume</u> <ul style="list-style-type: none"> • FDA Approved and CE mark (pindors brand or equivalent) <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, EEC, Japan or Equivalent</p>	02	Units	
06	<u>Pulse Oximeter with BP</u> <ul style="list-style-type: none"> • 7" Colour Anti-glare TFT LCD Screen (234×480 pixels) • NIBP, Digital SPO2, PR, Lithium Battery • Battery operated >8 hours use • Powerful record storage • Touch Screen • Thermal recorder (should include at least 20 roll of paper) • EtCO2 (sidestream) • Nellcor SpO2 • Infra-Red Ear Thermometer • Rolling Stand • Wall Mount • Size and Weight • Size: 160×130×260mm(W×H×D) • Weight:(2.5 kg)(Including a lithium battery) • Display: • Type:7" Color Anti-glare TFT LCD • Resolution:234×480 pixels • Power Supply • Input voltage:AC: 100V~240V,50Hz/60Hz • Input power:70VA • Fuse:T1.6AL/250V,2-F 5×20mm • Environmental Specifications • Operating Temperature: (5~40)°C • Humidity : =85%(noncondensing) • Atmospheric Pressure: (860~1060) hPa 	13	Units	

	<ul style="list-style-type: none">• Transportation and Storage• Temperature: (-20~+55) °C• Humidity : =93%(noncondensing)• Atmospheric Pressure: (500~1060) hPa• Standard Configuration• NIBP,BLT digital SPO2,PR, Lithium Battery• Micro Stream EtCO2, Nellcor SpO2, instant Infra-Red ear thermometer <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: China, Taiwan or Equivalent</p>																																																																				
07	<u>Surgical Instruments Sets for Open Heart (Diamond Dust)</u> <table><tr><th>S.N O</th><th>INSTRUMENT</th><th>SIZE</th><th>QUANTIT Y (Material should be Titanium)</th><th>QUANTIT Y (Material should be Stainless Steel)</th></tr><tr><td>1</td><td>Micro Needle Holders DD Curve with lock for round shape</td><td>7”</td><td>2</td><td>2</td></tr><tr><td>2</td><td>Micro Needle Holders DD Straight with lock for round shape</td><td>7”</td><td>2</td><td>2</td></tr><tr><td>3</td><td>Micro Needle Holders DD Curve with lock for round shape</td><td>8”</td><td>2</td><td>2</td></tr><tr><td>4</td><td>Micro Needle Holders DD Straight with lock for round shape</td><td>8”</td><td>2</td><td>2</td></tr><tr><td>5</td><td>Micro Needle Holders DD with lock round shape</td><td>9”</td><td></td><td>2</td></tr><tr><td>6</td><td>Micro Forceps round shape with ring Tip DD</td><td>1mm tip 7”</td><td>1</td><td>1</td></tr><tr><td>7</td><td>Micro Scissors Fine Blade -Dissecting</td><td>8”</td><td></td><td>2</td></tr><tr><td>8</td><td>Micro Scissor Forward</td><td>45 degree 7”</td><td></td><td>2</td></tr><tr><td>9</td><td>Micro Scissor Backward</td><td>125 degree 7”</td><td></td><td>2</td></tr><tr><td>10</td><td>Micro Foceps Dia Dust - Gerald Straight serrated</td><td>7”</td><td>2</td><td>2</td></tr><tr><td>11</td><td>Micro Foceps Dia Dust - Gerald Straight serrated</td><td>8”</td><td>2</td><td>2</td></tr><tr><td>12</td><td>Vascular Bulldog Clamp</td><td>Small</td><td></td><td>1</td></tr></table>	S.N O	INSTRUMENT	SIZE	QUANTIT Y (Material should be Titanium)	QUANTIT Y (Material should be Stainless Steel)	1	Micro Needle Holders DD Curve with lock for round shape	7”	2	2	2	Micro Needle Holders DD Straight with lock for round shape	7”	2	2	3	Micro Needle Holders DD Curve with lock for round shape	8”	2	2	4	Micro Needle Holders DD Straight with lock for round shape	8”	2	2	5	Micro Needle Holders DD with lock round shape	9”		2	6	Micro Forceps round shape with ring Tip DD	1mm tip 7”	1	1	7	Micro Scissors Fine Blade -Dissecting	8”		2	8	Micro Scissor Forward	45 degree 7”		2	9	Micro Scissor Backward	125 degree 7”		2	10	Micro Foceps Dia Dust - Gerald Straight serrated	7”	2	2	11	Micro Foceps Dia Dust - Gerald Straight serrated	8”	2	2	12	Vascular Bulldog Clamp	Small		1	02	Lots	
S.N O	INSTRUMENT	SIZE	QUANTIT Y (Material should be Titanium)	QUANTIT Y (Material should be Stainless Steel)																																																																	
1	Micro Needle Holders DD Curve with lock for round shape	7”	2	2																																																																	
2	Micro Needle Holders DD Straight with lock for round shape	7”	2	2																																																																	
3	Micro Needle Holders DD Curve with lock for round shape	8”	2	2																																																																	
4	Micro Needle Holders DD Straight with lock for round shape	8”	2	2																																																																	
5	Micro Needle Holders DD with lock round shape	9”		2																																																																	
6	Micro Forceps round shape with ring Tip DD	1mm tip 7”	1	1																																																																	
7	Micro Scissors Fine Blade -Dissecting	8”		2																																																																	
8	Micro Scissor Forward	45 degree 7”		2																																																																	
9	Micro Scissor Backward	125 degree 7”		2																																																																	
10	Micro Foceps Dia Dust - Gerald Straight serrated	7”	2	2																																																																	
11	Micro Foceps Dia Dust - Gerald Straight serrated	8”	2	2																																																																	
12	Vascular Bulldog Clamp	Small		1																																																																	

	<table><tr><td>13</td><td>Vascular Bulldog Clamp</td><td>Medium</td><td></td><td>2</td></tr><tr><td>14</td><td>Vascular Bulldog Clamp</td><td>Large</td><td></td><td>1</td></tr><tr><td>15</td><td>Aortic cross clamp</td><td>Small</td><td></td><td>1</td></tr><tr><td>16</td><td>Aortic cross clamp</td><td>Medium</td><td></td><td>1</td></tr><tr><td>17</td><td>Aortic cross clamp</td><td>Large</td><td></td><td>1</td></tr><tr><td>18</td><td>Side Biting Clamp</td><td>Small</td><td></td><td>1</td></tr><tr><td>19</td><td>Side Biting Clamp</td><td>Medium</td><td></td><td>1</td></tr><tr><td>20</td><td>Side Biting Clamp</td><td>Large</td><td></td><td>1</td></tr><tr><td>21</td><td>Autoclavable Instrument Box</td><td></td><td></td><td>1</td></tr></table> <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: UK, USA, Europe, Japan or Equivalent</p>	13	Vascular Bulldog Clamp	Medium		2	14	Vascular Bulldog Clamp	Large		1	15	Aortic cross clamp	Small		1	16	Aortic cross clamp	Medium		1	17	Aortic cross clamp	Large		1	18	Side Biting Clamp	Small		1	19	Side Biting Clamp	Medium		1	20	Side Biting Clamp	Large		1	21	Autoclavable Instrument Box			1			
13	Vascular Bulldog Clamp	Medium		2																																													
14	Vascular Bulldog Clamp	Large		1																																													
15	Aortic cross clamp	Small		1																																													
16	Aortic cross clamp	Medium		1																																													
17	Aortic cross clamp	Large		1																																													
18	Side Biting Clamp	Small		1																																													
19	Side Biting Clamp	Medium		1																																													
20	Side Biting Clamp	Large		1																																													
21	Autoclavable Instrument Box			1																																													
08	<p><u>Cylinder (for Nitrous-oxide) with Flow meter & Regulator</u></p> <ul style="list-style-type: none">• 1620 cft pin type• Medical Regulator• BOC tested• Should have opening key <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: USA, Europe, Japan or Equivalent</p>	50	Units																																														
09	<p><u>Cylinder (for Nitrous-oxide) with Flow meter & Regulator</u></p> <ul style="list-style-type: none">• 16200 cft• Medical Oxygen Regulator with convenient cylinder trolley• BOC tested <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period) Country of Origin: USA, Europe, Japan or Equivalent</p>	20	Units																																														
10	<p><u>Air Fluidized Bed</u></p> <ul style="list-style-type: none">• Air Fluidized bed should be especially designed to prevent and to heal the conversion of tissue caused by burns, pressure sores and other exuding wounds for whole body treatment system.• The patient should keep floating on a mass of microspheres which are pressurized by a conditioned airflow. The surface of the microspheres should be separated from the patient by a generously proportioned filter sheet. Bed should have dehydrating property, which means that dry air is blown through the microspheres.• A clean environment should maintained by the unique action of the beads and the filtered airflow. To reduce bacterial growth in the beads, the airflow should be maintained at low relative humidity. <p>Air Fluidized Bed Should Have Following Features</p> <ul style="list-style-type: none">• Full Body Air Fluidized Therapy system.• Control system with touch screen panel for easy and user friendly operation.• Full medical grade stainless steel tub.• High pH-value (9-11) of the glass beads.	14	Units																																														

	<ul style="list-style-type: none"> • Microspherical granulates of sodalime glass beads of 75 – 135 μm $\pm 2\%$. • Integrated warming and cooling system. • One-sided, easy to access control unit with a CPR button on one side for easy access. • Alarms (visual and audible) with mute function. • Multifilament mesh 35 micron polyester cover. • Temperature range adjustable from 29°-39°C, differential +1°C. • Variable airflow. • Bed should have Built-in decontamination system. • 2 castors with a brake. • Patient weight limits 135 kg or $\pm 5\text{kg}$. • Temperature around 40°C or lower, audible and visible alarm. fluidization should interrupt immediately. • Fluidization pressure adjustable. • Auto restart within 30 minutes after power break. • Temperature and pressure sensor with incorporated detection to indicate possible defects • Length: 2350 to 2540 mm • Width: 940 mm or more <p>Unit should Supplied With:</p> <ul style="list-style-type: none"> • Filter Sheet • Air filter for condenser • disposable air filter • 50 sheet extra of Generously proportioned multifilament mesh 35 micron polyester cover with each unit • International and National training facilities • Three years warranty with two years of free service; total five years <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, Europe, Japan or Equivalent</p>			
11	<p><u>Shower Bed Hydraulic with shower panel and all Accessories</u></p> <p>Measurement, Volume & Weight:</p> <ul style="list-style-type: none"> • Water consumption (filled with resident) • Electric supply Market Voltage Frequency Power consumption 230/240 V single phase AC • 120 V single phase AC 50 Hz • 60 Hz max 1200 VA max 1200 VA • Water supply • Cold water G3/4" male (customers connection) • Warm water G3/4" male (customers connection) • Operating dynamic pressure 100-600 kPa (15-87 psi) • Rec. dynamic pressure 200-300 kPa (29-43.5 psi) • Operating temperatures Max HW 80°C (176°F) • Min HW 38°C (100°F) • Max CW 25°C (77°F) • Recommended temperatures HW 38-65°C (100-149°F) • CW 10-18°C (50-64°F) • Recommended water flow (CW + HW) 25+25 L/min (6.6+6.6 gal US/min) 	03	Units	

	<ul style="list-style-type: none"> • Minimum drain 100 L/min (26.4 gal US/min) <p>Specifications:</p> <ul style="list-style-type: none"> • Control panel with electronic control functions operated by touchpad or push buttons. • Electro-hydraulic lifting mechanism. • Digital display for bathwater and fill/shower temperatures. • Pop-up drain incl. built-in overflow and flexible drain package for wall and floor connections. <p>System Should have:</p> <ul style="list-style-type: none"> • Automatic filling. • Emergency lowering. • Built-in unit to control and monitor the bath's various functions. • Digital control of filling and showering water temperatures via an electric pressure-balanced thermostatic mixing valve. • Hygienic Hydromassage system. <p>Mobile Shower Trolley:</p> <ul style="list-style-type: none"> • Measurements and weights • Max total load 170 to 200 kg or more • Lifting stroke • Min lifting height (from floor to patient platform) • Max lifting height (from floor to patient platform) • Width (stretcher) 500 mm or more • Total width (incl. side supports in inner position) 700 mm or more • Total width (incl. side supports in outer position) 800 mm or more • Inner length (inside the mattress at the bottom) 1600 mm or more • Max back support angle 15° • Stretcher inclination 1° • Drainage hose length 1000 mm • Drainage hose diameter 40 mm <p>Electrical:</p> <ul style="list-style-type: none"> • Battery type NiMH • Battery voltage 24 V DC <p>Electric, standard:</p> <ul style="list-style-type: none"> • Safe working load 120 kg or more • Protection class IPX4 • Product specification • Electrically operated height adjustment with built-in soft start function. • Electrically operated back support adjustment (option) with built-in soft start function. • Two sets of removable and rechargeable batteries and battery charger. • Folding safety side supports with width adjustment function. • Double safety side support catches. • Ergo-access area for good ergonomics. • Stretcher with gentle slope for water run off • Flexizone for improved resident/patient comfort. • Integrated shower handle holders. • Integrated comfort grip for residents/patients. • Split drainage hose that enables two drainage hose lengths. • Dual drainage holders. • Drain plug. 			
--	--	--	--	--

	<ul style="list-style-type: none"> • Soft mattress that is easy to remove, with recessed run off channels and side reinforcements. • Soft head pillow. • Castors. • Brakes on all four castors. • Emergency stop. • Low battery buzzer. • Max patient weight 170 kg or more <p>Hygiene Lifter for bathing</p> <p>Technical information:</p> <ul style="list-style-type: none"> • Protection class IPX6 (handset) IPX4 (total lift) <p>Features:</p> <ul style="list-style-type: none"> • Detachable and removable battery • Automatic safety stop if lowered onto an obstacle • Warning lamp for low battery • Foldable hand rests • Two castors with brakes • Straight steering device • Safety belts • Should be Hydraulic • Lifting capacity 120 kg or more <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, Europe, Japan or Equivalent</p>			
12	<p><u>Temperature Reader Digital</u></p> <ul style="list-style-type: none"> • Graphic display with on-screen instructions • 50-set memory (pH, temp, date and time stamp) • Automatic calibration and buffer recognition • Waterproof housing • User-replaceable single- or double-junction electrodes <p>Complete Job: Supply, Installation, Testing, Commissioning and Maintenance (during maintenance period)</p> <p>Country of Origin: USA, Europe, Japan or Equivalent</p>	05	Units	

NOTE: The quantities shown against each items are just approximate and payments will be made for the items actually required at site and also as per availability funds.

SIGNATURE

CONTRACTOR NAME

DATE & SEAL