

BIDDING DATA

Procuring Agency	Executive District Officer Health Karachi.
Address	Executive District Officer Health Karachi 6 th Floor Civic Centre, Karachi.
Name of Work	Procurement of Essential/General Medicines & Allied Items and Other Miscellaneous, Uniform & Liveries, Machinery/Equipments/Instruments/Furniture & Repair of Machinery/Equipments/Furniture/Fixture.
Bid Validity Period	90 Days
Amount of Bid Security	2% of Bid Price
Deadline of Submission	_____
Performance Security	2 ½ % of the Contract Value
Language of Bid	English
Bidding Procedure	Single Stage Two Envelope Procedure
Advance Payment	No Advance Payment
Period of Completion	30 Days
Liquidity damages	0.05% of the bid price per day after the period of completion upto 10% maximum.
Inspection Authority	Inspection Committee
Place of Inspection	Store of I.I. Depot Cantt EDO Health Karachi.
Place of Delivery	Store of I.I. Depot Cantt EDO Health Karachi.

FORM OF CONTRACT

THIS CONTRACT Agreement (hereinafter called the "Agreement") made on the _____ day of _____ 2015 between Executive District Officer Health Karachi, the "Procuring Agency") on the one part and M/S _____ (hereinafter called the "Contractor") of the other part.

- WHEREAS the Procuring Agency is desirous that certain Essential Medicines/Drugs and Other Miscellaneous, Uniform/Liveries, Equipments/Machinery/Furniture/Instrument by the Contractor and has accepted a Bid by the contractor for the execution and completion of such store.

NOW this agreement witnesses as follows:

1. In this agreement words and expression shall have the meanings as are respectively assigned to them in the conditions of contract hereinafter referred to.
2. The following documents attached herewith, be read and construed as part of this Agreement, viz.
 - (a) The letter of Acceptance Annex-I
 - (b) Condition of Contract Annex-II
 - (c) Bid Data Annex-III
 - (d) Specification Annex-IV
3. In consideration of the payment to be made by the procuring agency to the contract as hereinafter mentioned, the contractor hereby covenants with the procuring agency to execute and supply and remedy defects therein in conformity in all respects within the provision.
4. The Procuring Agency hereby covenants to pay the Contractor, in consideration of the execution and supply of store as per provisions of the contract, the contract price or such other sum as may payable under the provision of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties hereto have caused this contract agreement to be executive on the day, month and year first before written in accordance with their respective laws.

M/S _____ (on behalf of Contractor)	Executive District Officer Health Karachi.
Signed and Delivered in the presence of	
Witness: 1 _____ (Name, title and address)	Witness: 2 _____ (Name, title and address)

TECHNICAL EVALUTION CRITERIA

**FOR PURCHASE OF ELECTRO MEDICAL EQUIPMENTS/INSTRUMENTS FOR HEALTH INSTITUTIONS
UNDER ADMINISTRATIVE CONTROL OF EDO HEALTH KARACHI FOR THE YEAR 2014-15**

Sr. No.	Points of Evaluation Criteria	TOTAL POINTS
1	Experience No. of Major Institute past 03 years	1-5 = 04, 5-10 = 06 10 or above = 10
2	Period of serving big institutions	1 year = 04 2 years = 06 3 years = 10
3	Financial Capability 3 years Average Annual Turn Over	100M = 04 200M. = 08
4	Certificate from Bank that Firm is capable of doing business	10
5	Workshop for Backup Service	10
6	Principal's letter of Authorization for dealer in Pakistan	10
7	G.S.T. Certificate	4
8	N.T.N. Certificate	4
9	ISO Certificate or CE mark	08
10	Technical Staff: No. of Bio-Medical Engineer	1-4 2-6 3 or more 8
11	Annual Audited Balance Sheet for 03 Years	1 year = 4 2 year = 6 3 year = 8
	Remarks Eligible or Not Eligible	

NOTE:-

Eligibility of qualification for bid required 70% out of 90 Points or more score. The firm secured 70% is qualified.

INSTRUCTION TO BIDDER

1. 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.
2. The bidder shall drop their bids duly sealed in the tender box in the office of the Executive District Officer Health, Karachi.
3. The bid documents comprises the following (as per rule, 21, of SPP Rules 2010 amended 2013).

a) Instruction to Bidder	Annex-I
b) Form of Bid	
i) Proposal/Specification	Annex-II
c) Form of Contract	Annex-III
d) General/Special Conditions of Contract	Annex-IV
4. The tenders will be received back upto _____ at 11:00 AM and will be opened on the same day at 12:00 noon in the presence of Purchase Committee and the bidders of their authorized representatives. In case of holiday the bids shall be opened on next day at same time.
5. Bid Security, Amounting 2% of Bid price should be in shape of Pay order in favour of Executive District Officer Health Karachi issued by any schedule Bank of Pakistan.
6. 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 if the bid is accepted.
7. Conditional tender and tender without bid security shall not be considered.
8. Delivery time will be 30 days starting from the issuance of work orders/signing the contract.
9. GST/Income Tax Certificates must be accompanied with tender.
10. The procuring agency may reject all or any bid at any time prior to the acceptance of a bid or proposal, subject to the relevant provision of SPP Rules, 2010 (amended 2013). The payment will be made subject to availability of funds for the Financial Year 2014-15.
11. 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.
12. If any extension in the bid validity period should be asked to extend the same. Such extension shall be for not more than the period of original bid validity.

- (a) Agree for extension of bid validity period shall also extend the validity of the bid security for the extended period of the bid validity.
 - (b) Agree to the procuring agency's request for extension of bid validity period shall not be permitted to change the substances of their bids.
 - (c) Do not agree to an extension of bid validity period shall be allowed to withdraw their bids without for feature of their bid security.
 - (d) The bidder name , unit as well as bid amount and bid security shall be announced.
13. Bids submitted late due to any reason what so ever, shall not be considered and returned unopened to the bidder or his authorized representative.
14. The bids shall be quoted in Pak Rupees.
15. 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 bid that do not change substances of the bids.
16. Any request for clarification in the bid, made by the procuring agency shall invariably be in writing. The response to such request shall also be in writing.
17. The procuring agency may reject all bids or proposals 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.


EXECUTIVE DISTRICT OFFICER HEALTH
KARACHI

SUPPLIER QUESTIONNAIRE PROFORMA

(To be filled in by the vender)

Equipment _____ Model _____

Manufacturer _____ Supplier _____

1 Year in Introduction of the Offered Model: _____
Version(if same model revised) _____

2 Number of equipment installed (Please provide names of institution for
Pakistan / Karachi) _____
World wise _____
In Pakistan _____
In Karachi _____

3 Manuals to be Provided Yes No.
Services _____
Parts List _____
Electrical Drawing/ Schematics _____
Operational/ Application _____

4 Spare Parts availability guarantee (No of Years) _____

5 Source of spares availability Lead Time
Local _____
Overseas _____

6 Equipment life period (Number of years) _____

7 Do you hold specialized tools/test equipment required for:
Maintenance Yes No N/A
Calibration _____

Please provide list of tools/test equipment including their calibration status on a separate sheet.

8 Annual Maintenance contract price:
Parts and Labor _____
Labor without parts _____
9 On call service Charges
Minimum _____
Per day: _____

10 In Case of in house maintenance by KMC engineers, are you willing to provide
following during post warranty period.
Back up engineer support whenever requested: Yes No.
Prompt supply of spares/ consumables: _____

11 Are you authorized representative of manufacturer: _____

12 No. of factory trained engineer (s) available locally for the offered equipment
(Provide training certificate & years of experience)

13 Total numbers of years in business: _____

14 Warranty period (Please provide following details:

Uptime Guarantee: _____ %
Response time to Maintenance requested: _____ Hrs
No of PPM/Year _____
Any other: _____

15 Do you have any objection/concerns to use similar Specification spares of alternate/ other manufacturer
During warranty of maintenance contract(if available) Yes No

16 Comprehensive KMC Engineer Training Yes No
If yes state what included: _____

Training fees _____
Airfare _____
Boarding/Lodging _____
Free of Charge _____
None of the above _____

17 Up- Gradation Possibility:

Hardware _____
Software _____

If above has any cost please provide the details of up-gradation with estimated price:

Please state standard conformance (e.g. IEC 601, FDA, AAMI etc)

18 Pre-Installation services requirement :

Power _____ KW
Voltage _____ Single/Three Phase
Gas: _____ Cuft /Hr
Water _____ Gallons/Liter Hour
_____ PSI (Pascal)

(if pre-treated water required, please provide details)

Air _____ PSI Vacuum _____ mmgh

Other _____
(e.g. Drain, Exhaust, Physical Facility change etc)

Installation time: _____
Installation / Commission by whom: _____

19. Environmental Parameters Limits:

Temperature _____ to _____ Centigrade/ Fahrenheit

Humidity _____ to _____ & RH.

IEC 60601 International Electro Technical commission (Code 601)

AAM American Association for medical instrumentation.

FDA Food & Drug administration.

20. Any other specific requirement (e.g. UPS, Voltage Stabilizer etc, Provide Details):

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

22. Please quoted the rates for consumable / disposable items or parts required for proper functioning of the machine/ equipment with life period of each days/ month etc)

Supplier's Name _____

Authorized Signature _____ Designation _____



**OFFICE OF THE
EXECUTIVE DISTRICT OFFICER HEALTH
KARACHI**

**TERMS AND CONDITIONS FOR THE PURCHASE OF ELECTRO MEDICAL EQUIPMENTS /
INSTRUMENTS FOR HEALTH INSTITUTIONS UNDER ADMINISTRATIVE CONTROL OF
EDO HEALTH KARACHI FOR THE YEAR 2014-15**

1. Cost of tender is Rs: _____ /=(_____) non Refundable.
2. Tender selling date from _____
3. Tender submission date _____ at 11.00 AM in the office of EDO Health Office 6th floor Civic Centre Karachi.

Tenderers are required to comply with all the clauses mentioned in the terms and conditions of the tender alongwith submission of all the relevant documents required .In case of any deviation / incomplete documents the tenderer may be prohibited for competing in the tender/their offer invalid.

1. In this tender method of procurement, as per SPP Rule 46(2) of Sindh Public Procurement Rules 2010 will be ONE STAGE- TWO ENVELOPE PROCEDURE.
2. Tender, which does not fulfill the prescribed condition, is liable to be rejected.
3. **All the quoted Items of a group should be quoted in a single technical bid (sealed in a technical envelope).**
4. **In financial offer the rate of each items of a group should be quoted separately and financial offer for each item of a group be sealed separately. All the Financial Offers for one group should be sealed in one envelope on individual basis.**
5. Both the Technical and Financial offers of a group be enclosed in a single envelope marked "Technical and Financial offers" and sealed. The Name of the group and Firm be Boldly written on this envelope.
6. Proof of payment of cost of tender shall be required at the time of opening of tender.
7. In financial bids, the vendor should mention financial offer alongwith 2% earnest money for each item of a group quoted as pay order/demand draft in favour of EDO Health Karachi.
8. Not tender will be entertained without call deposit/bid security. Conditional tender shall not be accepted.
9. The equipment offered must be latest version/generation and an old model should not be quoted. The old model will not be considered, even if it fulfills tender specifications.
10. The original Bank Draft of the earnest money should be attached with the financial proposal and a Photo state copy of deposit at call should be attached with technical offer but its value must not be disclosed and this can be achieved by placing a piece of paper on the place where amount is mentioned.

11. **The vendor / Tenderer have to provide at least two years warranty with parts. In case of X-ray / Imaging Systems five years warranty of tubes and Imaging systems including spares. Without warranty no tender will be accepted.**
12. The warranty period will commence from the date of commission of the unit as per report of end user and technical person.
13. Firms must provide complete details of their financial standing, listing of similar equipment supplied in Pakistan if any, bio-data if engineer with training certificates/test equipment details of local stock of spare parts for similar equipment and details of office with number of personals.
14. The equipment to be supplied should be accompanied with three original copies of the operation, service/maintenance and schematic diagram and spare part list manual in the English Language.
15. The bids will be valid for 90 days from the date of the opening of the tenders. However under exceptional circumstances and for reason to be recorded in writing, if any extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
16. All equipments may be preferably FDA or CE approved.
17. The disclosure of rates at the time of opening of technical proposal will result in to rejection of the bid.
18. The scrutiny of technical bids will be performed by the technical committee and financial bids of those firms will be opened, which qualify technically. On opening of financial bids of technically qualified bidders only the lowest in rates will be entertained. The Financial Offers of Technically un- qualified bidders shall be returned un-opened.
19. Contractor/supplier will be responsible for pre-installation, work if required free of cost and also responsible for pre-installation work if required after inspection.
20. Equipment/Instrument will be handed over to storekeeper through D.O. Health (Procurement) with a copy of Delivery Challan to the EDO Health Karachi.
21. The contractor must be authorized sole agent of the manufacturer no sub-sole distributor is allowed to participate in tender.
22. Manufacturer name and country of origin should write against each item. Without manufacturers name and country of origin tender will not be accepted. Tenderer have to provide warranty of Equipment/complete system (if applicable) including spare parts of the same equipment.
23. Details of qualified and trained technical personal and facilities shall be provided. The vendor must have proper workshop and factory trained engineers for major equipment at respective station.
24. Procurement authority reserves the right to verify or ask for authentication of the certificate from the sole agent from the concerned authorities i.e. embassy/counselors office attestation.

25. The successful bidder shall be required to submit within two days pay order / demand draft in favour of EDO Health Karachi @ 10% of the total value of work orders amount received as security deposit for warranty period of one year.
26. The Procuring Agency has the right to increase/decrease the quantity of an item or delete the item as per requirement.
27. Price escalation will not be allowed.
28. If supplier/firm doesn't supply the items in accordance with the supply order or fails to supply according to terms and conditions or incase of any other default, it will be black listed and the earnest money will be forfeited.
29. **The bidders are advised to read the Sindh PPRA Act 2009 and SPP Rules 2010 carefully before submission of bids".**
30. **The decision once taken will be final. However, any complaint/grievances and disputes shall be settled as per Rule 31 of SPP Rules 2010 'REDRESSAL OF GRIEVANCES AND SETTLEMENT OF DISPUTES'.**
31. Income tax "and other taxes" will be deducted according to government rules.
32. The Procuring agency may reject all or any bids subject to the relevant provisions of SPP Rules 2010.
33. Conditional tenders will not be accepted.
34. Only one item rate should be quoted in the bid document no alternate offer is allowed in same purchased bid. If firm quoted alternate rate of the same item should purchased other bid document.
35. Overwriting, erasing and cuttings are not acceptable unless they are signed, stamped and authenticated by the authorized person of the firm.
36. No over writings or cuttings, insertions or deletions will be allowed after the bids have been dropped in the tender box.
37. The bidders may be required to submit List of litigation/court cases between the firm and the clients on an affidavit that the firm has not been black listed by any Government/Autonomous Organization.
38. If the supplier fails to give supply and install within the stipulated period penalty will be imposed @ 0.1% of the total value of equipment per day subject to a maximum of 10%.
39. The payment will be made after satisfactory report of the user department and Electro Medical Department countersigned by authorized person.
40. Technical training to electro medical engineer (s)/end user (s) from factory trained engineers for equipment procured will be provided by the firm.
41. The rates should be quoted on Free Delivery at consignees end FOR Basis.

42. The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied.

- 95% to 100% No Penalty
- 90% to 95% the warranty period will be extended by the number of days system in down.
- 85% to 90% warranty period will be extended 1.5 time the down time period.
- 80% to 85% warranty period will be extended two time for the down time period and supplier is supposed to give justification of delay.
- **Down time is defined as failure in the equipment operation that prevents the systems / equipments from working and displaying patients' data/image.**
- **Down time starts when the buyer notifies the designated service faculty and ends when repairs have been done and system is available for use.**
- If uptime is less than 80% hospital will complaint to the principal/manufacture to take action against the supplier and warranty will be the three time for the down time period.
- Downtime is defined as failure in the equipment operation that prevents the system from displaying patient image data.
- Downtime will start when the buyer notifies the designated service faculty and ends when repairs have been done and the system is again available for use.
- Late shipment penalty will be imposed on supplier as per EDO Health Karachi discretion.

43. Reference list where the offered systems are presently installed and performance report from them.

44. Arrangement of spare parts & services of equipment will be the responsibility of supplier and all spare parts shall be made available after installation of the system to ensure minimum disturbance in working.

45. Post warranty period service contract with and without parts will be the responsibility of the supplier.

46. Physically availability of service engineer when called at the site will be the site will be the responsibility of the supplier (it should be included in undertaking) all the times.

47. Sublet of Authority not allowed.

48. The Bidders must submit the bid documents with paging. If the bid documents are not pagged the procurement authority is not responsible for any claim of the bidders.

The following documents are to be submitted alongwith tender in the same sequence as under:-

1. Original Tender purchased receipt.
2. 2% earnest money for each quoted item for each group as pay order/demand draft deposit in favour of the Executive District Officer Health Karachi as per terms & condition
3. Quotation of Equipments/Instruments (Tender Enquiry/Proforma)
4. Original terms and conditions duly signed and stamped. Each page should be signed and stamped by competent authority.
5. Valid Income Tax Certificate or Income Tax Exemption Certificate.
6. Professional Tax Certificate (Bidder)
7. A copy of valid agency certificate/agreement (if any)
8. Certificate that the prices quoted are not higher or more than market price.
9. A certificate that the firm will abide all terms and conditions of the tender infringement for consequences for recommended by the competent authority.
10. Valid Sales Tax Certificate.

11. ISO Certificate/CE Mark.
12. Fill Profoma of Questioner.

Certified that all terms and conditions mentioned in the tender are acceptable and we will abide by them strictly.

Signature_____

Address & Stamp_____

Fax No._____

OFFICE OF THE EXECUTIVE DISTRICT OFFICER HEALTH KARACHI
ANNUAL PROCUREMENT PLAN 2014-15
(MEDICINES & ALLIED ITEMS AND MACHINERY/EQUIPMENTS/INSTRUMENTS/WORKS, GOODS & SERVICES)

Sr. #	Description of Procurement	Quantity (where applicable)	Estimated Unit Cost (where applicable)	Estimated total cost (in millions)	Funds allocated for 2014-15	Source of Funds (ADP/ Non ADP)	Proposed Procurement Methods	Timing of Procurement				Remarks
								1 st Qtr. From July-Sept. 2014	2 nd Qtr. From Oct-Dec 2014	3 rd Qtr. From Jan-Mar. 2015	4 th Qtr. From Apr.-June 2015	
1	General Medicines & Allied Items	DETAILS ARE ATTACHED HEREWITH			6,51,08,800/-	Non ADP	Single Stage Two envelope					100% work orders issued as per rate contract basis approved by the competent authority.
2	X-Ray Films & Chemicals				20,00,000.00	Non ADP	Single Stage Two envelope					-do-
3	Uniform / Liveries.				4,74,100.00	Non ADP	Single Stage Two envelope					Tender under process
4	Petty/Other (Miscellaneous) Articles.				9,50,000.00	Non ADP	Single Stage Two envelope					Tender under process
5	Repair of Machinery / Equipment.				2,50,000.00	Non ADP	Single Stage Two envelope					Tender under process
6	Repair work of Furniture / Fixture				88,000.00	Non ADP	Single Stage Two envelope					Tender under process
7	Expansion & Improvement of UHC Orangi/Mair/Keamari/S GH Korangi.				20,000	Provincial ADP	Single Stage Two envelope					Tender under process
8	Establishment of Ancillary & Other Services at 400 Bedded Hospital at NIPA				5,919	Provincial ADP	Single Stage Two envelope					Tender under process
9	Renovation and Equipments for Maternity Home Manghopir				6,456	Provincial ADP	Single Stage Two envelope					Tender under process
10	Construction of Two BHU at Shah Faisal Colony and Korangi No. 5				6,534	Provincial ADP	Single Stage Two envelope					Tender under process

11	Shahneel Benazir Bhutto Rehabilitation Centre for Burn and Rape Victims at Maternity Home of RHC Old Thano Malir Karachi	18.195	Provincial ADP	Single Stage Two envelope							Tender under process
12	Establishment of 50 Bedded Hospital in UC- 3, Dawood Goth Baldia Town	2.500	District ADP	Single Stage Two envelope							Tender under process
13	Up-gradation of BHU to 36 Bedded Hospital at Sector No. A-3 Saeedabad, Baldia Town, Karachi	5.000	District ADP	Single Stage Two envelope							Tender under process
14	Construction of 36 Bedded Hospital/Maternity Home at Sohrab Goth, Gulshan-e-Maymar Gadap Town & Pathan Colony SITE Town	2.500	District ADP	Single Stage Two envelope							Tender under process
15	Expansion & Improvement of Government Hospital Ibrahim Hyderi	4.000	District ADP	Single Stage Two envelope							Tender under process
16	UP-gradation of UHC Azam Basti to the level of 50 Bedded Hospital	5.000	District ADP	Single Stage Two envelope							Tender under process
17	Up-gradation of 50 Bedded Hospital into 100 Bedded Hospital New Karachi	3.500	District ADP	Single Stage Two envelope							Tender under process

EXECUTIVE DISTRICT OFFICER HEALTH
KARACHI

SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE

Price Rs. 2000/- (Non Refundable/Transferable)

GROUP "A" (Sr. # 1) MACHINERY & EQUIPMENTS

Tender Enquiry No. DO(P)/Kyc/Tender-Machinery/Equipments/2014-15

Due for opening on 26-02-2015

Time of Receipt of Tender..... 11.00 a.m.

Time of Opening of Tender..... 12.00 Noon

Item #	Description of Store	Req. Qty.	Make & Model	Manufacturer
1	Emergency Resuscitation trolley: Approx. size 2300mm x 710mm x 500mm / 800mm H. Variable height with side rails trendelenburg X-Ray translucent backrest adjustable by means of a mechanical locking system. Height adjustable by means of foot-operated oil pump. Approx. Trendelburg (14") / reverse trendelburg (11") by means of gas springs. Strong plastic protective buffer. Mounted on four 200mm swivel castors, with central braking system. Complete with aluminium alloy drop-down side-rails includes oxygen cylinder holder, IV rod. Mattress 1850mmx600mmx60mm 2.5 lbs/cft density foam covered with washable leatherite material.	10		
2	ECG 3 Channel Interpretative with trolley: Portable 3 channel ECG with interpretive programme. 12 Simultaneously acquired ECG traces printed on 90mm paper to eliminate trace overlapping. High resolution signal acquisition with real time printout. Utilizes either Z folder or roll paper. Copy facility for last record. Built-in transformer and rechargeable battery. Raised rubber button keyboard, for one touch print-out operation. Lead off warning. Full interpretive provides detailed and comprehensive reports. Complete with all accessories and trolley.	10		
3	Suction Machine Heavy duty: with various suction tubes. The unit to be mobile on four integral castors. The vacuum to be adjustable to 650mm Hg. At 25 litres/min. The jars to be fitted with a	15		

	float cage assembly and anti-flood valve. The jar changes over to be easy and quick. Vacuum control, gauge and on/off indicator to be well positioned for ease of use. To be supplied with one spare jar per unit.			
4	<p>X-Ray Unit Mobile 300mA single/three phase complete et with all standard accessories for its installation and commissioning: 30 kW or more High frequency X-Ray Generator, 4 ways floating top table with fixed height, floor/floor to ceiling mounted tube stand, manual collimator, 140 KHU X-Ray tube, wall bucky stand, pair of HT cables 10m or more. Radiographic kVp 40kv to 125kv or more in one kV step. Radiographic mA 10-300mA or better. mAs Range: 1.0-500 mAs or more. Exposure time: 2ms- 3.0s or better. Two point kVp and mAs selection and three point kVp, mA & time selection. 100 or more Anatomical program. Electromagnetic brakes longitudinal and lateral travel movement for table bucky, Longitudinal Bucky travel. Cassette size: all sizes. Moving grid 10:1 or similar, chest stand and table. Foot switch for electro magnetic brake control. Tube support balancing system with counterweights and electromagnetic brakes. Control panel with push button to control vertical, longitudinal and transverse travel. Column rotation: 180 deg or better. Manual collimator. LED/halogen light indicator for alignment with Bucky. Chest bucky stand with the cassettes formats all sizes on either or orientation. Moving Potter Bucky. Vertical travel of bucky not less than 150cm. Dual focus X-Ray tube: Small focus 1.0mm and large focus 2.0 mm or better. Maximum Tube voltage 125kVp and Anode Heat capacity 140 KHU. (Make UK/USA/Western Europe/Japan or equivalent).</p>	3		
5	<p>Ultrasound Machine gray scale:- High Resolution Portable B/W Ultrasound Machine having Digital Beam Forming System for Abdominal/Obstetrical/Gynae/Urology/small parts with the following composition: 12" or more LED/LCD monitor having wide viewing. Two or more probe connectors. STC gain six steps or more. Depth: 24cm or more. B/M scan, B (Single, Dual), B/M, M. 3-5 MHz</p>	5		

	Multi Frequency Convex Probe. Linear probe 5-10MHz (for small parts). Comprehensive measurement package/functions for abdomen and obs/Gynae. Built in battery. CD/DVD writer or USB port. B/W Ultrasound printer. Voltage stabilizer. Mobile Trolley. Country of origin should be USA/EU/Japan with their respective standards MDD (CE) compliance/MHLW Japan/FDA 510K. IN CASE EQUIPMENT IS FROM OTHER COUNTRY FDA 510K APPROVAL IS MANDATORY.			
6	Lamp Operating Minor (Single): Lamp Operating Minor (Single Head). Consisting of; Main Lamp: Single Light source or LED mounted in a suitable frame for laminar flow compatibility. Lighting Detail: Type of light source: 22.8 Volt 50 Watt Tungsten Halogen or LED. Average bulb life: 1500 or 15000-20000 hours. Light Intensity: 100000 lux @ 1 metre. Field size: 200mm - 355mm. Depth of Focus: 850mm. Focused Range: Electronic control 700mm - 1600mm. Focus Control: Via Central Sterilized Handle. Colour Temperature: 4,300deg Kelvin. Colour Rendition Index: 96 minimum. Radiant Energy: 3.86W / m ² /Klux. Temperature Increase in <12 deg Celsius in Max Light Field. Temperature Increase <2 deg Celsius. 10cm below light.	4		
7	Dressing set: 2 x Sponge Holding Forceps, Straight. 6 x Backhaus Towel Holding Forceps, 110mm. 2 x Scalpel Handle, No. 4. 4 x Halsted Mosquito Forceps, Straight, 125mm. 4 x Halsted Forceps, Str, 1x2 Teeth, 125mm. 4 x Pean Artery Forceps, Straight, 140mm. 2 x Baby Mixer Forceps, 140mm. 2 x Overholtgeissendoerer, Dissecting Forceps. 4 x Kocher Forceps, Straight, 1x2 Teeth, 140mm Df. 2 x Roux Retractor, Double-Ended, Set of 3. 2 x Langenbeck Retractor, 28 x 14mm. 2 x Volkmann Retractor, 4 sharp prongs. 2 x Volkmann Retractor, Semi-Sharp, 6-Pronged. 2 x Dissecting Forceps, Slender Pattern, 145mm. 2 x Tissue Forceps, Am. Patt., 1x2 Teeth, 145mm. 2 x Waugh Tissue Forceps, 1x2 Teeth, 184mm. 1 x Durotip Diss. Scissors, Toennis-Adson, 17, 5. 1 x Dissect and strabismus scissors, cvd, 115mm. 2 x Durotip Diss. Scissors, Mayo-Lexer, Cvd. 165mm. 2 x Farabeuf Respiratory, straight. 1 x Volkmann Spoon,	8		

	<p>Sharp, size 1. 1 x Hohlmeisselzange N. Zaufal-Jansen, 180mm. 1 x Durogrip Crile Needle Holder, 150mm. 1 x Durogrip Hegar-Mayo Needle Holder, 105mm. 1 x Probe, Double Ended, 200mm, Diam. 1, 0mm. 1 x Interior Box. 1 x Kidney Tray, 250mm.</p>			
8	<p>Anesthesia Machine with built in ventilator Three gases machine with two station selectecbackbar. Two to four cylinder yokes Oxygen flush system Top shelf 2~3 drawers unit Four casters (front wheels braked) Oxygen flow meter Nitrous oxide flow meter Air flow meter Autoclavable CO2 absorber 1 liter or more. Ventilation mode: Manual, VC-VAC, PCV-APCV(CMV mode) Should have LCD or numeric display for all parameters pressure & volume and monitoring of inspired & expired volume inspiratory time & rate with Spirometer. Tidal volume (Vt): 60 to 1200ml or more Inspiratory flow : from 5 to 70L/min. Inspiratory time: from 0.2 sec to 4 seconds Flow sensitivity : from 1 to 15 L/min Pressure control: 10 to 50cmH2O Electronic PEED : 5 to 20 CmH2O Trigger : 0.7 to 6L/min Trigger window: 60^ of expiratory time Alarms: Gas failure, high & low airways pressure, saturation (Fio2), Apnoea & Exhaled tidal volume occlusion. 2 hours battery back up or more. Selectatec vaporizer 1 no. as standard (Isoflorane) Make: UK/USA/EEC/Japan</p>	2		

9	<p>Auto Claves 200-300 Liters pass through with integral Generator. SPECIFICATION:</p> <p>Microprocessor controlled, automatic steam sterilizer with integrated steam generator. Chamber volume: 200-300 liters. Double door sliding version. Recessed model.</p> <p>Pneumatically/Power controlled door with automatic door locking device. External compressor unit to provide compressed air for locking device. External compressor unit to provide compressed air for sterilizers if the unit is pneumatically controlled. Unit to be provided with booster pump if necessary to compensate existing water pressure at 300 to 500 kPa. Programmable facility. Modular construction including stainless steel panel and service doors. Double jacketed chamber. Should be made of high quality stainless steel at least of AIS304 standard. Efficient vacuum system. Air detector and leak rate testing device. Microprocessor controlled self diagnostic system. Should be provided with safety alarms and assured with safety environment. Shall come with chart recorder for pressure and temperature.</p> <p>ACCESSORIES: each unit should come with standard accessories of carriage or chamber rail or rack for loading and unloading of material from/into the sterilizer from loading trolley. A total of 24 modular wire basket for packs sterilizing. Wire basket made of stainless steel and electro polished. Stackable. To provide compatible water softener/de-ioniser system for the sterilizer.</p> <p>POWER REQUIREMENT. Operate at 330 VAC \pm 10% 3 phase power. Safety Features: Compliance to IEC 601-1 or BS standard for sterilizers. Electric and Gas Operated.</p>	8		
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10	<p>Defibrillator: Semi automatic 340 approx joules biphasic defibrillator with monitor/LCD and AED mode. Biphasic Tran thoracic (external) defibrillator with TFT/LCD colour display. Synchronized output with ECG. Control of energy charging/delivering on main panel and apex paddle. Charging Indicators. The energy range should be adjustable for paed and adults upto 340 approx Joules. Charging Time for full energy will be less than 10 sec. Screen Size of approx. 5" coloured. Display of HR, ECG through paddles and Lead I,II & III patient cable. Built in recorder for printing of full summery on standard 50mm paper. Alarms for High and low Heart rate, low battery warning. AC 220V / 50Hz operated. Built-in Rechargeable battery with charger for minimum 50 shocks at max. energy. Auto tester/self check. External pediatric and adults Paddles, ECG cable. AED facility.</p>	5		
11	<p>Vacuum Extractor (Malstrom) Unit to be light weight and portable giving a maximum vacuum 750 Mm Hg with a 25 litre/min flow rate. The jar easily removable for cleaning and sterilizing, to have a float cage assembly with anti-flood valve. Vacuum control gauge and on/off indicator light to be fitted. A spare jar to be supplied with each unit. Thee suction cups.</p>	3		
12	<p>Nebulizer. Aerosol with piston electro compressor. Main: osomg speed: 1cc in 3 minutes. Pressure 1: 1 bar. Air flow 15 liter/minute. Noise level: 60 db. Granulmetric size of medication: 1-10 microns by means of multi PIPSER component.</p>	25		
13	<p>ICU Ventilator ICU Ventilator with built in compressor and humidifier and standard accessories Patient type: Adults, peads , Neonates Ventilation model: The modes of ventilation should include: (S)CMV+, PCV+ , SIMV+, P-SIMV+, SPONT along with NIV and closed loop adaptive support ventilation with lung protection strategies. Duo PAP and APRV mode of ventilation should also be available Special function should include nebulizer , manual breath, 100% O2, stand by sigh, apnea back up ventilation, screen –lock and inspiratory hold.</p>	3		

	<p>TECHNICAL Specification:</p> <p>The patient range should be from preterm up to adults. Height range from at least 30 cm up to 250cm . breaths rate for CMV+, PCV+, P-SIMV+ should be from at least 4 bpm to 80bpm PEED & CPAP from 0 cm H2O up to 25 cmH2O . Tidal volume from minimum 2 ml to 2000ml oxygen range should be from % of O₂ in atmosphere up to 100%. The I: E ratio is from 1:0- 4:1. The flow range should be from 0lpm – 240lpm. % of minute volume enclosed loop ventilation 25% up to 350%. Alarms : operated adjustable alarm should include low /high minute volume , high pressure, low /high tidal volume, apnea rate.</p> <p>Oxygen concentration , disconnection, lose PEEP, exhalation obstruction, flow sensor alarm, AV, powers supply alarm should be added.</p> <p>Feature: event log , storage of display of not less than 1000event with date and time stamp. Ventilation cockpit should have real time visualization of with representation of tidal volume , lung compliance, resistance and patient activity.</p> <ul style="list-style-type: none"> - The cockpit should also have vent status for visual representation of the ventilator dependency. Should have ASV target graphics. Real time wave form should simultaneously display up to 4 waveform. At least 2 loop display should be available. Simultaneous trending up to 4 parameters for 1,6,12 and 24 hours. <p>Power supply: 240VAC/50/60Hz. Should work on hot swappable back up batteries ., at least 2 batteries with 2.5 hours minimum functionality of each battery. Should have built in blower system to eliminate the need of compressor. The unit should feature a transportable head, screen size not less than 10.4 " TFT color , back lit.</p> <p>Standards: should comply on EN and IEC standards. Supplied with supporting alarm, original trolley , breathing circuit for adult, neonates and preterm. Power cords and operating manual.</p> <p>FDA/CE and IEC certificates.</p> <p>Make: UK/USA/EEC/Japan</p>			
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14	<p>DIGITAL INFUSION PUMP</p> <ul style="list-style-type: none"> - Volumetric peristaltic infusion pump. - Flow rate 0.1 to 99.9 ml/h or better. - Unit compatible with most IV set. - Memory function in case of power failure to retain the most recent flow rate & total volume. - Comprehensive alarm for Air in line, occlusion, door open, low battery, Infusion complete, empty container etc. - Built in battery with battery charger. - Unit complete with IV sets. <p>Or equivalent Country of origin: USA/UK/Japan/Western Europe</p>	10		
15	<p>O.T. Table Hydraulic:-</p> <p>Modern Design aiming to ease surgical procedures with easy asepsis of the components in direct contact with the patient. Equipment extremely versatile that is used to several different specialties. No Handles (all movements are obtained through the foot pedal including the equipment lock).</p> <p>Accessories: Anesthesia arch, Pair of shoulder support, Pair of arm support and pair of lateral support.</p> <p>Movements/Angles/Positions: Head up/down 0 deg-30deg/0deg-90deg: Leg up/down 0deg-45deg/0deg-60deg, Lateral left/right 0 deg-20deg/0deg-20deg. Backup/down 0deg-75deg/0deg-15deg: Trendelenburg/reverse 0deg-20deg/0deg-20deg. Lateral left/right 0deg-20deg/0deg-20deg. Abdominal Flexion: Semi-sited. Lithotomic. Horizontal: Abdominal Extension. Thyroid Operation. Semi-flexion of legs and thigh: Leg Inversion. Leg Rotation.</p> <p>USA, EU, Japan, Korea or equivalent.</p>	4		

16	<p>DIATHERMY</p> <ul style="list-style-type: none"> - High frequency surgical diathermy for mono polar and bi polar cutting and coagulation for use in general surgery, ENT, Gynaecology, Urology, Orthopedic etc - Output frequency 300-375Khz or more. - Output power 300 W or more. - Monopolar cutting 300 W - Pulse 40W - Blend : 230W or more. - TUR (transurethral resection): 300W - TUR-Pulse: 50W - Monopolar coagulation Soft 100, Spray 120 - Bipolar cutting 100 W or more - Pulse : 100 W ore more - Bipolar coagulation : 100 W <p>Complete with : Power cable, Footswitch, double, HF-hand piece with finger switch, Knife electrode straight 4mm or better with shaft, Loop-electrode diameter of 10mm or better with shaft of 4 mm or better, Bipolar forceps , bipolar cable, patient plate, trolley</p> <p>Or equivalent</p> <p>Country of origin: USA/UK/Japan/Western Europe</p>	5		
17	<p>Vital Sign Monitor: Monitor with colour display with ECG, Heart Rae, Non Invasive Blood Pressure, Pulse Oximetry and Temperature, Resp for adult, paed, neonates. Screen size min 10" or more ECG: Input: Colour coded. Protected against defibrillator and electro surgical potentials. Lead Selector: 4 position control STD, I, II, III. Impedance: >10Mohm at 10 Hz. CMMR: >120 db LA, RA, RL to equipotential ground at 50/60 Hz. Output BAndwidth: FILT: 0.5 - 100 Hz with 50/60 Hz notch filters. Diag: 0.05 - 100 Hz. Calibration: 1mV Pulses at 100 bpm. Alarms: Asystole: no valid QRS detected for 3 sec Irreg: alarm for ventricular fibrillation detection and other irregular waveforms. HEART RATE: Display: Rate derived from ECG or pulse rate. On screen digits. Range: 0-300 bpm. Accuracy: +-1% full scale +-1 digit. QRS indication: Heart symbol on screen. Alarms: Minimum limit: 20-280 bpm. Maximum limit: 60-300 bpm. Fault Alarm: Cable, electrode fault, overload. Pacemakers: Pulses not counted. Pre-inserted into ECG for display with an option to count the pacemaker pulses. RESPIRATION: 0 to 150 bpm. NIBP: Oscillometric principle. Measurement range: 0-300 mmHg. Display: On screen systolic, diastolic and mean arterial pressure. Time of next reading when in auto mode. Alarms: Adjustable on systolic, diastolic & mean. Automatic NIBP measurement on ECG alarm. To allow automatic alarm limits to be set on selected pressure determination. Safety cutout for over 300mmHg cuff pres. Cuff inflation rate: 2 to 56 seconds dependant on cuff. Cuff deflation rate: Microprocessor controlled, dependant on heart rate.</p>	20		

	<p>Calibration: Automatic Zero before each measurement. Pressure connections: Screw fittings to connect a bonded double hose to the monitor. PULSE OXIMETRY: Sensors: Finger clip, optional neonatal and paed sensors. All sensors pre calibrated and interchangeable. Range: O2 saturation 45-100%. Pulse rate 20-300bpm. Display: Pulse waveform, SaO2 short trend and pulse rate and O2 saturation. Resolution: O2 saturation 1%. Pulse rate 1 bpm. Accuracy: O2 saturation 100x80% \pm 2% (Newborn \pm 3%), 80-60% \pm 3% (Newborn \pm 4%), <60% unspecified. Pulse rate \pm 1% \pm 1 digit. TEMPERATURE: Input: Isolated protected against defibrillator and electrosurgical potentials. Alarms: Adjustable high and low limits. Low alarm range: + 12 to + 42 deg C. High Alarm range: +13 to + 44 deg C. Range: +12 to +44 deg C. Probes: Yellow Springs Inc series 400 or equal. Accuracy: \pm 0.1 deg. C full range, 0.2 deg C with 0.1 deg C display if used with recommended probe. Probe fault: On screen indication. Calibration: 37.0 \pm 0.1 deg C performed automatically and continuously. Display: On screen derived data T1 and T2 and derived difference. Arrhythmia Analysis, built-in battery, Trends 24 - 48 hours. To be supplied with an adult arm and thigh cuff, and a child and infant cuff and suitable hoses, SaO2 sensors, temperature probes and suitable disposable ECG electrodes.</p>			
18	<p>Infant Warmer This Equipment should include Two 20W Fluorescent lamps located on both sides of the infrared Heater for maintaining Optimum Neonate Temperature. Unit should have Manual Temperature Control System with atleast 30 Minutes time facility. Unit should have facilities for visual indication for operation of warmer, and audio-visual alarm with atleast every 15 minutes. SS design to provide excellent rigidity facilitating cleaning and sterilizing. Warmer should have future option to connect atleast 2 No. Oxygen Cylinders of 500 Liter each. USA/EU/Japan</p>	10		
19	<p>Baby Incubator (Intensive Care Incubator) Dual microcomputer base system for constant monitoring of the condition of incubator to avoid any mishap. Dual walls with air curtain in front and back of the incubator hood to reduce infants heat loss. Dual lock mechanism for admittance panel for infants safety and the following technical specifications. Temperature Control: Servo & Manual Controls. Sound Level: 43db or less. Air</p>	4		

	<p>Velocity: Less than 10cm/sec to minimize heat loss. Skin Tem. Setting: Range from 35.0 -37.5 degree C in 0.2 degree C increments or better. Skin Temp. Display: Range from 30.0-42.0 degree C in 0.2 degree C increment or better. Air Temperature setting: Range from 23.0 – 37.0 degree C in 0.2 degree C increments or better. Air Temperature Display: Range from 20.0 – 42.0 degree C in 0.2 degree C increments or better. Heater output Display: 0-100, indicated in 8 levels or more. Warming Time: Less than 60 minutes at ambient temperature of 25 degree C. Humidity Control: Servo Controlled Humidity for Automatically controlling Humidification to a preselected setting. Humidity System: Active and sterile Humidification system. The humidity chamber should have boiler for germicide Vapour at 100C with water tank. The humidification chamber and water tank should be removable for direct cleaning and complete disinfection. Humidity display range: 15-99%. Maximum Humidity Range: More than 90%. Humidity setting range: 40-95% in 1% increments. Maximum O2 Concentration: More than 60%. Achieving Time: Less than 30 minutes. Alarm: High Temperature, Skin Temperature Probe, Fan, Set Point, System Failure, Power Failure, Humidity Sensor, Relative Humidity Set Point, Humidity Chamber Off, Low Water Level. Tilt of Mattress Platform: Sleeplessly tillable upto 5 degrees relative to the head end or the foot end. X-Ray Cassette Tray: Provided in the mattress Platform (Standard Accessory) usable without opening hood. Must meet FDA safety standards and relevant certification must be attached.</p> <p>USA/EU/Japan</p>			
20	<p>Drill Air Surgical Ortho: To consist of:- 3 meter spiral pneumatic Hose. Drill. Chuck for square shank, Jacobs chuck for shanks upto Dia 6.35mm. Chuck for AO-Shanks. Jacobs Chucks for shanks upto Dia 4.0mm. Three Jaw Chuck for Shanks upto Dia 4.0mm. Wire attachment upto Dia 2.5mm. Airlan Pneumatic Motor. Osteotomy Saw W/Star-Coupling. Saw Blade 5x35mm. Saw Blade 10x35mm. Sawblade with Starc Usable L. 50mm,</p>			

	width 20mm, 50mm, width 30mm, 65mm, width 25mm, 65mm, width 40mm. Sternum Sawblade 75x35mm. Reamer with harris coupling. Adaptor for Flex. Reamer Ac. Din/Harris. Cement Injector. Disposable Syringe 50ml with Injection Tube Sterility Oil for Care, Maintenance.			
21	N.I.B.P. Monitor	1		
22	<p>SYRINGE PUMP</p> <ul style="list-style-type: none"> - Syringe pump for use in ICU, CCU, NICU or Operation room for the infusion of chemical such as vasopressor drugs, anti cancer drugs, oxytocic, nutrituin, drug for chemotherapy medication and blood transfusion. Use of 100ml syringe. Anti bolus and anti siphon function. - 3 sensors . Lockable keypad. - Flow rate rang : 0.1-99.9ml/h, 100-155ml/h, Volume infused: 0.1-99999ml, Volume to be infused: 0.1-99999ml - Compatible syringe: 10,20,30,50/60, 100ml or more - Audio-Visual Alarms for low battery, occlusion, end of infusion, internal error, incorrect syringe etc - Nurse call system - Built – in battery with 4 hour or more <p>Or equivalent Country of origin: USA/UK/Japan/Western Europe</p>	10		
23	<p>Portable Light 3 Reflector with rechargeable battery:-</p> <p>Moveable light is mainly used in surgical centers, Intensive Therapy Units, Clinics where a high level of lightning for medical procedures and examination is necessary.</p> <p>FEATURES:</p> <p>Easy asepsis of the components in contact with the patient. Mobile. Stability. Double articulated arm. Halogen Bulbs of easy replacement with low maintenance costs.</p> <p>MOVEMENTS/ANGLESS/POSITIONS:</p> <p>Movements: twist. Bending, up/down and. Circular. Turntable Suspension 360 Deg. Four movements axis: light head, arm and rod. Lateral opening of 2,00m Ray of 4,00m.</p> <p>NCLUDED ACCESSORIES:-</p> <p>Emergency system which consists of a 12V 60 A battery that allows the continuation of procedures</p>	2		

	<p>in case of lack of energy lasting for up to three hours. It reduces the light intensity in 30%.</p> <p>TECHNICAL INFORMATION:-</p> <p>Number of Bulb : 3</p> <p>Potency : 150W</p> <p>Power Tension (V) : 110/220</p> <p>Reflector: Multifaceted.</p> <p>Frequency (Hz) : 50/60.</p> <p>Color temperature (K) : 3.200/4.500.</p> <p>Light Head Dime (mm) : 480x460x150.</p> <p>Equipment Dimensions (mm): 1.610 x 485 x 2.450.</p> <p>Up/down movement (min –max) (mm): 1400/2200.</p> <p>Bulb life expectancy (h) : 2.000.</p> <p>Field: 150mm.</p> <p>USA/EU/Japan/Korea/China or equivalent.</p>			
24	Pulse Oximeter	3		
25	CTG Machine with Screen	5		
26	General Surgery Sets (list attached)	10		
27	D&C Set (38 Pieces)	8		
28	D&E Set (38 Pieces)	6		
29	Dispensing Scale Metric Weight one set	5		
30	Dressing Drums (steel)	10		
31	Delivery Set (61 Pcs) list attached	30		
32	Ambo Bag	10		
33	Oxygen Gas Cylinder with regulator, flow meter & Humidifier bottle (Jumbo size) with trolley POL Certified	5		
34	Nitrous Oxide Cylinder with regulator, Flowmeter & Humidifier Bottle (Jumbo size) with trolley POL Certified.	2		
35	Oxygen Flowmeter	5		
36	X-Ray Illuminators	30		
37	ENT Diagnostic Sets (List attached)	2		
38	Sphygmomanometer Aneroid Wall Type with large easy to read white dial with bold figures. Complete with pediatric and adult velcro cuff.	50		
39	Stethoscopes: Light weight aluminum chest piece construction. Adjustable chrome binaural. Flexible one piece molded 'Y' PVC tubing. Ergonomic plastic ear tips.	25		
40	Refraction set complete with box	2		

41	<p>Ophthalmoscope Indirect: Binocular indirect ophthalmoscope papillary distance adjustable, halogen illumination with output voltage variable upto 6V, four spare bulbs, transformer, red free filter, cobalt blue filter, teaching mirror, scleral depressor, 20D aspheric lens, detachment charts and carrying case.</p>	2		
42	<p>Microscope Binocular 4x/10x/40x/100x Lens. Consisting of: Standard Microscope. Binocular Head, Adjustable Inter Pupillary Distance. Rotating Quadruple Nose Piece. Adjustable Stage with vernier scale and spring clip for slides. Co Axial Controls. Condenser Carrier, Vertically Adjustable. Brightfield Condenser, N.A. 0.9, Flip Top. Aperture Iris Diaphragm. Kohler Illumination. Halogen Illuminator 6v 20w. Eyepiece Lenses:- X 10 Achromat N.A. 0.25. X 40 Achromat N.A. 0.65. X 100 Achromat N.A. 1.25, Oil Immersion. Options and accessories:- Blue Iris Aperture Filter. Oiler. Spare Bulbs x 10. Carrying Box. Dust. Cover.</p>	4		
43	<p>Water Bath Unstirred Consisting of: Waterbath, Serological Exterior Sheet Steel, Enamelled. Interior Stainless Steel. Interior Dimensions: Approx. 560 x 315 x 140mm Deep. Range: 3c Above Ambient to 100c. Temperature Fluctuation: +/-0.1c. Perforated stainless steel bottom tray. Built in Thermometer. Gabled Lid. Colour Display with deg F&C.</p>	4		
44	<p>Biochemistry Analyzer Semi Automatic: Semi automated Chemistry Analyzer with built in software for the calculation and curve plotting. It should accept all types of curvefits like Log-log, Log-linear, Exponential, point to point. User programmable memory for upto 50 chemistries minimum with programmable by the user. Light Source: Quartz Halogen Lamp. Wavelength Range: Automatic selection by at-least 10 position filter wheel ranging 340-620nm. Photometric Range: 0 to 3.0 Absorbance. Calculation Modes: Absorbance/concentration. End point with factor or standard. Enzyme kinetics with factor or standard. Fixed time with factor or standard. Differential mode with factor or standard. Polygonal multi standard (Calibration Curve).</p>	2		

	<p>Nonlinear software for Elisa should be there.</p> <p>Aspiration system: Programmable sipping volume from upto 1000ul. Automatic calibration of sipping volume. Automatic adjustment of sipping time.</p> <p>Quality Control - At-least 2 controls per test.</p> <p>Programme: Levey jennings's chart - high/low flags.</p> <p>Temperature control by peltier element.</p> <p>Computer connection: Possibility to take repeated readings of reaction solution aspirated flow cell for kinetics. Printer: Built in using normal paper.</p> <p>Internal battery backup to retain data. Sine wave UPS with 1 hour back up time for complete system.</p>			
45	<p>Hematology Analyzer: Consisting of: Haematology counter, automated 3 to 5 part differential as required by end user. Through put 50 samples/hour minimum. Automated sample mixing and dilution. Minimum 8 Parameters including HB, WBC, RBC, Hct, Plt, and derived values. Flagging of results outside user defined limits. Platelet analysis and distribution flagging. Microsampling capability. Minimal carry over between samples. Stat capability. Auto calibration programme. Reagent level alert. System monitoring. Automated start up and shut down. Patient data entry and specimen recognition by keyboard. Rs232c interface. With rotor mixer/autosampler. With Printer. Consumables, reagents, calibrators, controls for start up.</p>	2		
46	<p>Incubator 200 Litre Capacity: Stainless steel chamber with adjustable shelves and a tough ended glass inner viewing door. The outer cabinet is to be rust resistant. Temperature Control detail required:- An LED display to show the chamber temperature, Indicator lamps to show when the heater is active and if an over temperature condition exists. The over temperature safety cutout to be set by the user. Fitted with circulation fan. Temperature Range: At least 5 deg.C above ambient to +60 deg.C Control (fan) : $\pm 0.1\text{deg.C}$ at + 37 deg.C. Variation (fan) : $\pm 0.25\text{deg.C}$ at 37 deg.C. Chamber Capacity: 200 Liters.</p>	4		

47	Electrolyte Analyzer (Na, K.Cl): Consisting of: Electrolyte Analyser Ise for Na, K, Ca, Cl, Li. For Whole Blood, Plasma, Serum, Urine. Sample Volume: Blood/Plasma/Serum 35-200 Micro Litres (Chemistry Dependent). Urine (Diluted) 50-250 Micro Litres (Chemistry Dependent). Low Maintenance Electrodes - Sealed or re-membraning. Digital Display. Stat Facility. Autosampler. Self Diagnostics Programme; System Monitoring and maintenance modes. Storage Qc Data. Integral Printer. Calibrators. Controls, Reagents, Consumables for startup.	1		
48	Oven Sterillising: Natural convection, temp. +75 to +300 deg. C, construction, door catch, capacity approx. 70 Liters, shelf perforated stainless steel, steel stove enameled panel frame, inside chamber stainless steel, Mechanical temp controller.	5		
49	Electronic Balance:- Weighing: 0.1g~200g Construction ABS housing, stainless steel pan Display Liquid Crystal Display (LCD) Design Features Low battery indicator, auto shut-off feature, mechanical and software Overloads Protection, external push button calibration Operation. AC Adapter (Included) or 3 AA Batteries (Included) Gram, Pound, Ounce, Newton Origin: UK, USA, Japan	3		
50	Centrifuge Bench Top Multiuse: Consisting of: Angle Rotor. Maximum Speed 6000rpm; Rcf 6250g. Timing upto 99 hours; continuous. Programmable by keypad; 32 programme storage. Digital Display of programme speed, timing, braking. Imbalance detection. Lid Safety Interlock. Angle Rotor, Maximum Capacity 24 x 15ml, 24x7ml (with adaptor).	4		
51	Paeds Laryngoscope with complete set of blades	3		
52	Auto X-Ray Film Processor: This is a 90 second processor which monitors ten important processor functions, such as developer and fixer,	1		

	temperatures, developer and fixer recirculation, wash water flow and safety controls. The unit display is LED and audible alarms alert the operator if any function deviates from normal operating limits.			
53	Refrigerator 12 cft no frost.	4		
54	Computer Core i.7 with LCD Monitor 17" and all accessories, including laser printers	2		
55	LCD 29"	2		
56	A/C Split 1.5 ton	20		
57	Stabilizer 5000W	2		
58	Electric Water Cooler	8		
59	Short wave therapy Unit (pulse continuous short wave, with different) Shortwave diathermy microprocessor-controlled unit for continuous and pulsed applications. Direction-adjustable arms for comfortable treatment of each body part wide range of applicators for maximum therapeutic effect unit should be equipped with the timer for automatic end of therapy. High performance solid-state generator. Continuous and pulsed mode. Capacitive and inductive applicators. High output power, continuously adjustable. Built-in timer with automatic shut-off. Soft-rubber plate applicator. Frequency 27.12MHz. Output power 400W maximum in continuous mode. 1000W Peak Power in pulsed mode. Output Modes: Continuous, Pulsed 3 in 3, 2 in 3 & 1 in 3. Pulse width 20-400 microseconds. timer 0-30 Minutes. Tuning Automatic. Unit should complete with: Two Electrode arms. Capacitive electrodes with cable One Pair rubber electrodes. or Equivalent.	3		
60	Microscope Controlled Dual channel Neuromasular, Stimulator complete. Combined with NMS-STIM (Neuromuscular Stimulation) and ETC (EMG Triggered Stimulation). Lightweight and portable. Automatic and manual threshold settings. Software for detailed progress tracking. Dual Channel Digital EMG Unit. Range 0.2uV to 2000uV. STIM (Neuromuscular Stimulation). Amplitude 0-9mA. Constant current, maximum output voltage 70 Volts. Waveform Symmetrical, rectangular, bi-phasic with net zero DC current or	2		

	equivalent.			
61	<p>Ultrasound Therapy Unit completed standard accessories: Therapy for treatment to increase blood flow in the tissues. Touch screen technology. Dual Frequency ultrasound (1MHz and 3MHz). Programmable memory. Treatment Protocols: Pressure Ulcers, chronic venous ulcers, trigger point, low irritability, tendon injury/lesion, chronic osteoarthritis, Rheumatoid arthritis, Tennis Elbow, Carpal Tunnel, Fibromyalgia, Soft Tissue Stretch, Impingement Syndrome, Calcific Tendonitis, Perineal Pain (Persistent), Perineal Pain (Partum). Treatment Time 0-30 min. Treatment Programs 10 user-defined set-ups. Ultrasound Frequency 1MHz and 3MHz. Maximum Intensity 1.5 W/cm or more in CW, 3.0 W/cm or more maximum output power 7.5W average. Output Modes CW pulsed 1:1,1:2,1:4 and 1:9 pulse Duration 2ms Ultrasound unit complete with: Large treatment head Trolley (Local) or Equivalent Country of Origin: USA/UK/EEC/JAPAN.</p>	5		
62	<p>Infra Red Lamp Infra-red lamp with 250W bulb and dimmer facility. Adjustable heat intensity complete with floor stand. Or Equivalent Country of origin: USA /UK/EEC/JAPAN</p>	5		
63	<p>Traction System Unit completed with traction table with accessories. Microprocessor controlled traction device suitable for continuous, intermittent, harmonized cervical and lumbar therapy Unit should have digital displays and digital interface for easy setting of therapy parameters. To be used with the traction Table Digital interface, Continuous, intermittent and harmonized traction programmes User-defined hold, rest and treatment times intermittent and progressive settings Real-time digital treatment tracking Built-in safety features: patient interrupt switch Traction force 0-90kg Force time/ Rest time 0-99 s (intermittent therapy) treatment time 0-99 min unit should complete with: Patient interrupt switch Nylon traction cord with metal fitting Cervical harness with spreader bar or Equivalent Country of Origin : USA/UK/EEC/JAPAN</p>	5		

64	Wax Bath Thermostatically control with a safety cut out unit to heat adre free wax up to 18kg of wax with water capacity of 17liters. Temperature range: 0-100C Unit complete with: Dust cover Tapped wax container Paraffin was: Wax bath thermometer or Equivalent Country of Origin: USA/UK/EEC/JAPAN	5		
65	Unit for EMG feed back & Electro Therapy EMG biofeedback unit with LED display. Single Channel Digital EMG Unit Accurate Range 0.2uV to 2000uV sensitivity 0.1uV RMS or Equivalent Country of Origin: USA/UK/ECC/JAPAN	5		
66	2 Channel Vacuum Unit Vacuum Therapy unit will all standard Accessories Plused or continuous vacuum. Power full vacuum with no vibration Channel selection : 2 Channels A+B or Channel only Vacuum 0.05 Bar, continuous or Pulsed Unit <u>should complete with</u> Four vacuum electrode cups (60mm) ech with sponge inserts Four vacuum electrode leads One link lead to connect Unit to interferential/ stimulation unit if require or Equivalent Country of Origin : USA/UK/EEC/JAPAN	5		
67	Hot and Cold Pack 3M Various size packs Hydropak (300x250mm) Hydropak (300x125mm) Hydropak (610x115mm) Hydrioak (Neck Contour 600mm long) Hydropak (370x600mm) Pak Heater Should be made by stainless steel Should be supplied with hooks for standard Hydropak bags should be fitted with a safety thermostat Water Capacity: 60 liters or more Temperature Range :0-100 C Power Requirement: 200/240 Vac. 2.3kw or Equivalent Country of Origin : USA/UK/EEC/JAPAN	5		
68	Massager Thrive with all standard accessories. Large surface massage for intensive & effective massage complete with two snap-on applicators. Carrying case or Equivalent. Country of Origin. USA/UK/EEC/Japan.	5		
69	Cervical Traction with Weight indigenous	5		
70	Shoulder Pully Simple with all standard accessories local	5		
71	Shoulder Wheel: Local	5		
72	Parallel Bar Adjustable. Parallel bar with mirror with all standard accessories local.	5		

73	Quadriceps Drill Table. Rehab chair for knee - multifunction. Streching: dynamic-seated, stretching: dynamics-ventral position. Stretching: Static - Seated, Bending : dynamics - seated. Bending: dynamics - ventral position, stretching/bending: fullness working-auto passive motion. Castors for moving. Single & double tibial supports. Depth adjusting system. Removable cervical & lumbar supports. Backrest jointed by gas jack. Pendulum system with motioning stick handler. Quadriceps support strap. with all standard accessories. Origin USA/UK/EEC/Japan or equivalent.	5		
	Tunnel Bath Large 12 Bulb. With all standard accessories local.	6		
74	Treatment Couches with all standard accessories local	4		
75	Trolley with Drawer. Trolley with drawers for (S.W/U.S) with all standard accessories local.	6		
76	Walker Folding Height Adjustable. Walker folding height adjustable with all standard accessories local.	6		
77	Tilt Table Adjustable. Electric height and tilt adjustment. Capable to lift and tilt up to 160kg (25 stone). Tilt angle from horizontal to 85 deg. Time taken from 0 to 85 deg. Approx 20 seconds. Fully washable/fire retardant. Heavy-duty toe braked rubber tyre castors complete with back rest, fixed footboard, patient handles, Harnesses, Angle indicator or equivalent. Origin USA/UK/EEC/Japan.	6		
78	Vacuum Steam Vaporizer: Fowler bed with side railing powder coated with over bed table (Nos. 20), Mattresses with ragzine cover (Nos. 20), attended benches with cushion (Nos. 20), bedside lockers (Nos. 20), ward screen 3 fold made of tubler steel with curtain (Nos. 20), Drip Stand (Nos. 20), Medicine trolley (Nos. 6), Wheel Chairs (Nos. 6), Stretcher trolley (Nos. 6), Wall mounted blood pressure monitoring apparatus (Nos. 6), Emergency Resuscitation trolley. Resuscitation trolley with 4 swivel castors with brakes. Having 4 drawers or more. Top tray for defibrillator, Side Tray for instrument. Complete with adult and child	6		

	resuscitator with face mask. Venture suction with collection jar. Container for waste. Drip stand support. Cardiac board. Oxygen regulator. Flow meter with humidifier or equivalent (Nos. 6).			
79	Multi Media with all accessories	3		
80	Deepfreezer	2		
81	Water Dispenser with installation	5		
82	weighing machine	2		
83	Sound system	1		
84	Ambulance 800cc with all accessories	2		
85	B.P. Apparatus Wall Mounted	6		

Full Name & address of Firm _____

CNIC No. of authorized Person _____

Signature of Authorized Person _____

SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE

Price Rs. 1000/- (Non Refundable/Transferable)

GROUP "B" (Sr. # 2) FURNITURE

Tender Enquiry No. DO(P)/Kyc/Tender-Furniture/2014-15

Due for opening on 26-01-2015

Time of Receipt of Tender..... 11.00 a.m.

Time of Opening of Tender..... 12.00 Noon

Item No.	Description of Store	Req. Qty.	Make & Model	Manufacturer
1	Bed adjustable Height Fowler Position: Features: Adjustable height, 4 section bed with gas spring assisted rising backrest. Tilt 12 degree head down, 6-degree foot down. 5" castors with individual brakes, all round buffers included. Safe working load 180kg. Technical Data: Length 80" Width 36" Height 24" approx. 5" castors with individual braking. Weight 86Kg. Constructed from tubular frame round or rectangle 18 SWG powder coated. 5" Mattress of 2.5 lbs/cft density with water proof flame retardant sterilizable cover. Optional: Bed fitting Patient Lifting Pole. Collapsible/Removable Side Rails Pair, I.V. Rod. Removable Head and Foot and in Mild steel frame powder coated.	150		
2	Mattresses with Rexene Cover: Foam Mattress having size of 78" x 36" x 4" thick, should be of 10 years warranty, complete with export quality Rexene cover.	150		
3	Locker Bedside: Shall be constructed from epoxy coated mild 18 SWG steel. Shall be complete with drawer and lower cupboard and mounted on 4 clog resistant castors.	150		
4	Over the bed tables: Heavy duty structure, height adjustment, main and adjustable column shall have 3" or more round stainless steel construction, top shall be of ABS material, sharp edges should be covered with plastic caps or equivalent material to avoid any damage while moving.	100		

5	Attendant Benches with cushion	150		
6	Drip Stands: Steel column with telescope adjustment, four port IV rod of Stainless steel wire.	200		
7	Wheel Chair Folding Adult: Made of heavy gauge SS tubing, Swing away detachable footrests and detachable arm rest, Seat width approx. 510mm, Suitable for patients upto 135kg. 200mm Solid front wheels, 600mm hard rubber rear wheels. Distance between rear wheels: approx. 680mm. Distance between front & rear wheels: approx. 400mm. Seat height: 510mm, approx. Manufactured with a folding facility for transportation and storage.	20		
8	Stretcher Trolley: Approx: 2000mm L x 710mm B x 915mm - 1000mm H. Steel frame with powder coated finish made from 18 SWG tubular frame. Approx Dia 200mm wheels, 2 with brakes. 4 ring bumpers. Mattress thickness 50mm. 2.5 lbs/cft density with fire retardant leatherite covering. Crank controlled height adjustment. IV Pole. Slide away footstep. Folding Cost Sides. Backrest adjustable by means of ratchet mechanism.	30		
9	Patient Screen: Three Folded, made up of M.S hollow round pipe, all frames should be joint together with universal joints, polyester curtains fitted, mobile on 6 wheels.	50		
10	Office Table: Size 4x3x2.5 liquor polish, handles locks, channels good quality complete in all respect, complete seasoned shesham wood.	70		
11	Delivery Table: Labour bed to be constructed from tubular frame round or rectangle 18 SWG powder coated. The bed to have a head end bow and a lift off foot bow. Open grid type mattress platform. Sliding Foot End. To be supplied with a pair of lithotomy stirrups and leg slings. An anti-static mattress. To have 4 to 5 inch castors, 2 with brakes. 5" Mattress of 2.5 lbs/cft density with water proof flame retardant sterilizable cover.	10		
12	Office Chairs: Chair in solid sheesham wood framing and inner framing. Upholstery in colour fast high abrasion resistant fabric. Cushioning Foam Density Min 2.5 lbs/cft. Finishing wood surface in polish. Complete in every respect.	350		

	and 20mm thick, 75mm wide strips on the top fixed in concave position. Finished with good and approved surface finish and polished. Size: 1800mm x 450mm x 450mm LxWxH.			
21	Medicine Rack Iron with four shelves (standard size)	50		
22	File Rack with Shelves Iron	25		
23	Foot Steps 2 steps	70		
24	Fiber Glass chairs four seater: Frame made of tubular steel pipe, four unbreakable P.P Plastic seats.	100		
25	Laboratory Table top drawer	3		
26	Computer Table	2		
27	Auditorium Chairs	100		
28	Folding Wheel Chair main frame tubular steel pipe seat back and arm rest of fine quality Rexene chrome plated finish	7		
29	Round Table Large	1		
30	Study Table	80		
31	Study Chair	80		
32	Dining Table	4		
33	Dining Chair	24		
34	Medicine Cupboard with glass door	3		

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SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE

Price Rs. 500/- (Non Refundable/Transferable)

GROUP "A" (Sr. # 3) OTHER MISCELLANEOUS ITEMS

Tender Enquiry No. DO(P)/Kyc/Tender-/2014-15

Due for opening on 26-02-2015

Time of Receipt of Tender..... 11.00 a.m.

Time of Opening of Tender..... 12.00 Noon

Item #	Description of Store	A/U	Tender Qty.	Make & Model	Manufacturer
1.	Dust Bin size 3	Nos	100		
2.	Lock Tricycle (China) Medium 21/4"3 key	Nos	100		
3.	Room Spray 400 ml	Nos	500		
4.	Spray Pump	Nos.	100		
5.	Stick Mop	Nos	100		
6.	Tissue Paper	Nos	600		
7.	Basket Plastic 12" Full size	Nos	50		
8.	Stapler	Nos	100		
9.	Stapler Heavy duty	Nos	10		
10.	Whito Pen shape	Nos.	500		
11.	Stapler Pin Remover	Nos	50		
12.	High Lighter different colours	Nos.	500		
13.	Calculator 12 Digit	Nos	100		
14.	Cartridge HP Laser Jet 1020	Nos	20		
15.	USB Flash Driver (4 GB)	Nos	50		
16.	Key Board for computer	Nos	50		

17.	Mouse for computer	Nos	50		
18.	Tea Cup with Saucer China	Nos	200		
19.	Tea spoon SS	Nos	200		
20.	Electric wire 7/29	Coil	5		
21.	Electric wire 7/44	Coil	5		
22.	Electric Tea Jug	Nos	10		
23.	Emergency Light Rechargeable large size	Nos	25		
24.	Energy Saver (24 watt)	Nos	500		
25.	Extension Board	Nos	50		
26.	Tube Light Rod 40W	Nos	100		
27.	Acid Salt 30 Ltr Can	Can	50		
28.	Bar Soap	Nos.	200		
29.	Bath Soap	Nos.	200		
30.	Broom soft	Nos.	100		
31.	Insecticide Powder 100gm	Pack	100		
32.	Goa Broom 500gm ring pack full size	Nos.	300		
33.	Mosquito Oil Spray 425ml Bottle	Bottle	100		
34.	Phenyl 3 Ltrs Bottle	Bottle	300		
35.	Phenyl (Constructed 500ml bottle)	Bottle	200		

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SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE

Price Rs. 500/- (Non Refundable/Transferable)

TENDER ENQUIRY NO. DO(P)/Tender-Uniform & Liveries/2014-15
Due for opening on 26-02-2015

Time of Receipt of Tender..... 11.00 a.m.
Time of Opening of Tender..... 12.00 Noon

Item #	Description of Store	A/U	Tender Qty.	Brand Name	Manufacturer
1	Cloth (Uniform) 35% Polyester & 65% Cotton	Meters	500		
2	Curtain Cloth	Meters	2000		
3	Rexene Good Quality	Meters	1000		
4	Plastic Sheet Good Quality	Meters	1000		
5	Duster 18x24 Good Quality	Nos.	5000		

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SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE -
 Price Rs. 200/- (Non Refundable/Transferable)

GROUP "3" (Sr. # 10) REPAIR OF MACHINERY & EQUIPMENTS

TENDER ENQUIRY NO. DO(P)/Kyc/Tender-Repair Machinery/2014-15

Due for opening on **16-2-2015**

Time of Receipt of Tender..... 1100 a.m.
 Time of Opening of Tender..... 1200 p.m.

Item	Description of Store.	Place of Visit	Qty	Details of work
1	Repair of X-Ray Machine 400MA (Semen'S)	SGH New Karachi	1	
2	Repair of Anesthesia Machine (Korea)	SGH New Karachi	1	
3	Repair of X-Ray Machine Model NCG 600 Listen	UHC-5-C 3 North Karachi	1	
4	Repair of Photocopier	EDO(H)CDGK	2	
5	Repair of Fax-Machine	EDO(H)CDGK	3	
6	Repair of Telephone Set	EDO(H)CDGK	15	
7	Repair of A/C Split 1.5 ton	EDO(H)CDGK	10	
8	Repair of A/C 2 Ton	EDO(H)CDGK	3	
9	Repair of Generator 10 kva	EDO(H)CDGK	1	
10	Repair of Electric Water Cooler	EDO(H)CDGK	1	
11	Repair of Refrigerator	EDO(H)CDGK	5	
12	Repair of PABX System	EDO(H)CDCK	1	

Full Name & address of Firm _____
 CNIC No. of authorized Person _____
 Signature of Authorized Person _____

SCHEDULE OF REQUIREMENT (TECHNICAL BID) & PRICE

Price Rs. 200/- (Non Refundable/Transferable)

GROUP "K" / Sr. # 100 - REPAIR OF FURNITURE & FIXTURES

TENDER INQUIRY NO. 20(P)/Kyc/Tender-Repair Furniture/2014-15

Due for opening on 26- 2-2015

Time of Receipt of Tender..... 11.00 a.m.

Time of Opening of Tender..... 12.00 p.m.

Sl. No.	Description of work	Qty.	Details of work
1	Repair of Stretcher	20	
2	Repair of Wheel Chair	10	
3	Repair of Office Chair	300	
4	Repair of Office Table Large	30	
5	Repair of Office Table Small	40	
6	Repair of Aluminium Steel with Colour	50	
7	Repair of Sofa Set & Replacement of Cushion	5	
8	Repair of Benchet	40	
9	Repair of Wooden Doors	10	
10	Repair of Revolving Chairs	20	
11	Repair of Medicine Cupboard with Glass Doors & Polish	20	
12	Repair of Visitor Benches & Polish	50	
13	Repair of Examination Couch with Cushion top with foam Rexene Mattress	20	

Full Name & address of Firm _____

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