|  |
| --- |
| **REQUEST FOR PROPOSAL(RFP)**  **logo** |
| **logo**  **SINDH EMPLOYEES' SOCIAL SECURITY INSTITUTION**  **GOVERNMENT OF SINDH**  **Feburary, 2016**  **SUPPLY OF HOSPITAL AND MEDICAL EQUIPMENT**  **FOR**  **“SINDH** **EMPLOYEES’ SOCIAL SECURITY INSTITUTION (SESSI)”**  **GOVERNMENT OF SINDH** |

**SINDH EMPLOYEES' SOCIAL SECURITY INSTITUTION, GOVERNMENT OF SINDH**

Aiwan-e-Mehnatkash, SESSI Head Office, ST-17, Block- 6, Rashid Minhas Road, Gulshan-e-Iqbal, Karachi. Ph-0213-99243347

**TABLE OF CONTENTS**

[INTRODUCTION 3](#_Toc443181481)

[DEFINITIONS 4](#_Toc443181482)

[INVITATION TO BID 5](#_Toc443181483)

GENERAL TERMS & CONDITIONS……………………………………………………………………..6

SPECIAL CONDITIONS..................................................................................................................7

[PURCHASER'S RIGHT TO ACCEPT THE BID OR REJECT THE BID 8](#_Toc443181494)

**SELECTION CRITERIA……………………………………………………………………………………9**

**BILL OF QUANTITY (BOQ)……………………………………………………………………………...18**

[BID SECURITY FORM 280](#_Toc443181522)

[PERFORMANCE SECURITY FORM Error! Bookmark not defined.](#_Toc443181523)

[TECHNICAL EVALUATION FORMS 280](#_Toc443181524)

# 

# INTRODUCTION

In Pakistan, Social Security Scheme was launched on March 1, 1967, under West Pakistan Employees' Social Security Ordinance No. X of 1965, with the assistance of the International Labor Organization. The Sindh Employees' Social Security Institution (SESSI), however, came into being on July 1, 1970 when the Scheme was reorganized on provincial basis after the dissolution of One-Unit. Initially, the Scheme was designed for coverage of textile industry workers of Karachi and Hyderabad. On getting encouraging results later on the Scheme was extended to all other industries and commercial units.

SESSI is a service-oriented organization. The function of the Institution is unique in nature for the welfare of labor class. It aims at providing medical care facilities and cash benefits to the secured workers and their dependents.

  The general direction and superintendence of the affairs of the Institution vest in a tripartite Governing Body. In its functioning, the Institution is guided by such instructions on questions of policy as may be given to it from time to time by the Government.

Medical Care occupies the most significant place in the services of SESSI more than 70% of its budget is spent on providing medical care facilities to the secured workers and their dependents. The Scheme applies to the entire province of Sindh. However, administrative offices/ medical outlets are functioning in Karachi, Dhabeji, Nooriabad, KaluKohar, Kotri, Hyderabad, Tando Jam, Tando Adam, Mirpurkhas, Nawabshah, Shahdadkot, Shikarpur, Jacobabad, Larkana, Rohari and Sukkur. For providing the medical facilities there are currently 39 dispensaries, 5 medical centers and 4 hospitals.

Under Social Security Scheme secured workers are entitled to cash sickness benefit, injury benefit, maternity benefit, iddat benefit, disablement gratuity, disablement pension, ex-gratia grant and dependents get survivors' pension and death grant.

# Definitions

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

“Bid” means a tender, or an offer by a, firm, company or an organization expressing willingness to undertake a specified task at a price, in response to an invitation by a Procuring Agency.

“Bidding Documents” means all documents provided to the interested bidders to facilitate them in preparation of their bids in uniform manner.

“Bidding Process” means the procurement procedure under which sealed bids are invited, received, opened, examined and evaluated for the purpose of awarding a contract.

“Contract” means an agreement enforceable by law and includes General and Special Conditions, Specifications, Drawings and Bill of Quantities

“Contractor” means a person, firm, company or organization that undertakes to execute works including services related thereto, other than consulting services, incidental to or required for the contract being undertaken for the works;

“Government” means the Government of Sindh.

“Procuring Agency” means, “Sindh employee’s Social Security Institution (SESSI)”, Government of Sindh

“Supplier” means a firm, company or an organization that undertakes to supply goods and services related thereto, other than consulting services, required for the contract.

“Services” means any object of procurement other than goods or works, and includes consultancy services;

“Response Time” means, the period starting from the first date of issuance of bidding documents up to last date of issuance of bidding documents.”

“Lowest Evaluated Bid” means a bid most closely conforming to evaluation criteria and other conditions specified in the bidding document, having lowest evaluated cost;”;

# INVITATION TO BID

Sindh Employees’ Social Security Institution (SESSI)”, Government of Sindh

(hereinafter referred to as Purchaser), invites sealed bids from eligible bidders for

" **SUPPLY OF HOSPITAL AND MEDICAL EQUIPMENT**

**FOR**

**“SINDH** **EMPLOYEES’ SOCIAL SECURITY INSTITUTION (SESSI)”,**

**GOVERNMENT OF SINDH**

SESSI invites proposal from the well reputed companies to supply and install the hospital and medical equipments to SESSI. Any equipment must not only meet the requirements mentioned in this Request for Proposal (RFP) and must also be flexible and scalable in order to meet its future business and technology needs in health sector.

To cope up with latest challenges and rapidly changing technology, equipments should be capable to provide quick access to information that enables to remain proactive with the decision-making process and responsive to constituents. Equipments should be flexible in such a way that facilitate in collaboration and be productive.

## 

## Invitation to Bidders

Sind Employees Social Security Institute (SESSI), Government of Sindh, invites technical and financial proposals from reputable Companies for supply and installation of Hospital and Medical Equipments.

1. Tender Bids in sealed envelopes as per guidelines and information provided in this documents are required. Interested bidders applying for bids should submit bids as per “**Single Stage Two Envelope”** Procedure of SPP Rules 2010 (Amended 2013), as amended till date).The interested bidder must have valid NTN, GST, PST registration certificates as a precondition for their eligibility for participation in the bidding process.
2. The bidder must quote for the **complete** desired specifications. The incomplete bids will be rejected as non-responsive.

3. The bidder must quote their rates for operation/running of major Speaclized/Sensitive Equipments (Inclusive seperately quoting of providing their HR Technical) for 02 year after supply and Installation of the Hospital and Medical Equipments.

1. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.
2. Interested eligible bidders may obtain further information on the bid and collect the bidding documents from the Under signed Address: “Sindh Employee’s Social Security Institution (SESSI)”, at office situated at Aiwan-e-MehnatKash, ST-17, Block-6, Gulshan-e-Iqbal, Karachi 75300,from the date of advertisement during office Hours, i.e. from 9:00 am to 5:00 pm on payment of document fee of Rs. 2,000/- in the form of Pay order/Demand Draft in favor of “Sindh Employees’ Social Security Institution (SESSI)”.

6. All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of ‘pay order’, ‘demand draft’ and Call deposit’ in the name of “Sindh Employee’s Social Security Institution (SESSI)”, and must be accompanied with the bid”. Bid without earnest money/bid security of required amount and prescribed form shall be rejected.

7. “Sindh Employee’s Social Security Institution (SESSI)”, will not be responsible for any costs or expenses incurred by bidders in connection with the preparation or delivery of bids.

8. The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

9. The Procuring Agency shall have right of rejecting the tender as per Sindh Public Procurement Rules 2010 (Amended 2013), as amended till date).

10. All quoted prices must include all applicable taxes, such as General Sales Tax, Income Tax, Provincial Sales Tax and/or etc. If not specifically mentioned in the bid, then it will be presumed that the prices include all the taxes. Purchaser will not be responsible and would not pay any additional amount in case of changing in tax rate by the Government of Sindh or Government of Pakistan.

11. Rights and obligations of the procuring agency and the contractor shall be governed by General and Special conditions of contract signed between the procuring agency and the contractor.

12. Execution/installation of all equipment of the bid would be at locations communicated to bidder at the time of award of contract or at the time of issuance of purchase order.

13. The following shall result in blacklisting of suppliers, contractors, or contractors, individually or collectively as part of consortium:

(a) Conviction for fraud, corruption, criminal misappropriation, theft, forgery, bribery or any other criminal offence;

(b) Involvement in corrupt and fraudulent practices while obtaining or attempting to obtain a procurement contract;

(c) Final decision by a court or tribunal of competent jurisdiction that the contractor or supplier is guilty of tax evasion;

(d) Willful failure to perform in accordance with the terms of one or more than one contract;

(e) Failure to remedy underperforming contracts, as identified by the procuring agency, where underperforming is due to the fault of the contractor or supplier.

14. Sind Employees Social Security Institute (SESSI), Government of Sindh, invites technical and Finance proposal from reputable Companies for Enhancement/Up gradation of its health facilities. Scope of this RFP will be for establishing of Health facilities/Revenue Collection and up gradation of SESSI.

Unit rate of each item to be quoted, the quantities will be finalized after detailed surveys. The quantity of each item will be communicated to the successful bidder at the time of signing of contract agreement or after signing of the contract agreement. A separate purchase order will be issued to the successful bidder in this respect.

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

16. Service Level Agreement (SLA) if required, will be signed as per criteria of SESSI

**----------------------------------------**

**VICE COMISSIONER**

Sindh Employee’s Social Security Institution (SESSI)”

# General Terms & Conditions:

* Bids not conforming to the terms, conditions and specifications stipulated in this RFP will be rejected.
* “Sindh Employees’ Social Security Institution (SESSI)”, Government of Sindh invites this tender under **single stage - two envelope procedure, under SPPRA 2010 (Amended 2013), as amended till date.**
* Price should be quoted for both “C.I.F and FOR” basis in Figure and words failing which the offer will be ignored. FOR offer should be inclusive of all duties/Taxes/Octroi/Transportation, etc. and all other expenses on free delivery to consignee end.
* In case of purchase of C.I.F, the bidder will bear the charges of clearing agent. warehouse Rent, Airline D/O charges and all other charges including transportation to consignee end excluding custom duty and tax. Certificate will be issued by this office to clarify that the import has been made for the hospital in question so as to avail the facility of exemption of duties/taxes as per Government Rules.
* Proposal after due date and time will not be accepted for any reason. Proposals must not be sent by Facsimile or e-mail. Such submissions will not be accepted for any reason.
* Bid/Proposal shall comprise the technical and financial proposal.
* All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of this bidding document.

1. **Bid Security & Performance Security**

All bids must be accompanied by an earnest money/bid security of two percent (2%) of total bid amount, in the form of ‘pay order’, ‘demand draft’ and Call deposit’ in the name of “Sindh Employees’ Social Security Institution (SESSI)”, and must be accompanied with the bid”. Bid without earnest money/bid security of required amount and prescribed form shall be rejected.

* Bid security of the unsuccessful bidders will be released by “Sindh Employees’ Social Security Institution (SESSI)”, after award of work or after expiry of bid validity period whereas the bid Earnest money of successful bidder will be converted in to performance security which shall not be exceed equivalent to 2**%** of contract price.
* The performance security of the successful bidder will be released after issuance of successful completion certificate by the Sindh Employees’ Social Security Institution (SESSI), Government of Sindh.
* All/any terms and conditions not specified here shall be dealt with reference to pertinent SPPRA Rules 2010 (Amended 2013), as amended till date.

1. **Validity of the proposal**

All proposals and price shall remain valid for a period of 90 days from the closing date of the submission of the proposal. However, the responding organization is encouraged to state a longer period of validity for the proposal.

1. **Pricing**

All currency in the proposal shall be quoted in Pakistani Rupees (PKR). The Bid prices and rates are fixed during currency of contract and under no circumstance shall any contractor be entitled to claim enhanced rates for any item in this contract.

1. **Withholding Tax, Sales Tax and other Taxes**

The responding organization is hereby informed that the Government shall deduct tax at the rate prescribed under the Tax laws of Pakistan, from all payments for supplies and services rendered by any responding organization who signs a contract with the Government. The responding organization will be responsible for all taxes on transactions and/or income, which may be levied by Government. If responding organization is exempted from any specific taxes, then it is requested to provide the relevant documents with the proposal.

1. **Compliance to Specifications**

The Responding Organization (RO) to provide information as per (Compliance sheet). RO may not propose any kind of refurbished equipment/instruments/devices in their technical proposals.

1. **Financial Capabilities**

The RO (s) shall describe the financial position of its organization. Income Statement or Report should be included in the detailed Technical proposal.

1. **Penalty Clause**

The Responding Organization (RO) should deliver & install the Hospital and Medical Equipments in 90 days and provide 12 months support on account of maintenance. There will be penalty imposed on delay of per month @ 2% of late supplies value.

## OEM relationship and warranties

The responding organization (RO) should be authorized Partner if not a manufacturer, and should submit a letter from **the original manufacturer for this project adressing the client**

* All equipment should have 12 months warranty.
* The equipment supplied should be through verifiable by Manufacturer representative.
* The end user licenses, end user warranties and end user contracting support services will be in the name of Customer, for all the equipment and Software loaded on the equipment delivered during the course of the project.
* No refurbished/End of life and used equipment will be supplied during the course of the project.

**SPECIAL CONDITIONS:**

1. The quoted rates once offered by the firms will not be changed during the contract period.
2. The bidder shall quote their price both in figures and in words on free delivery basis to SESSI Facilities.
3. Distributor once nominated by the manufacturer / importer shall be for the whole contract period and manufacturer / importer cannot change its distributor during the contract period in any case. In exceptional cases the tendering authority may approve changes.
4. No manufacturer / importer shall authorize their distributor / agent / any firm or person to quote the same item, which the manufacturer is quoting itself in any tender. Failing those offers of both the manufacturer as well as other bidder shall be ignored.
5. The manufacturer/importer supply sub-standard, misbranded or contaminated item(s) etc., those will be replace by the contractor at his risk and cost. The supplier shall be responsible to provide the fresh stock of standard quality within 30-60, days against the rejected one. Otherwise amount equivalent to the supplied quantity of defective goods shall be deducted from their bills/earnest money and supplier may be black listed by the competent authority accordance with the offence and hence their performance security will be forfeited.
6. If goods are declared sub-standard the Manufacturer and their Distributor are equally responsible and are bound to supply fresh quantity free of cost.
7. The Technical evaluation carried out by the Committee shall be final.
8. The supplier must provide goods and their solutions within 60 days for local manufacturer and 120 days for importer from the date of issue of purchase order/signing of contract agreement however bidder have the rights to quotes its own delivery period.
9. Payment shall be made to supplier as prompt as supplies/Inspection are completed but not later than 30 days of supplies.

1. If any of the firm/supplier shall not supply the goods after getting award of contract, the whole performance security shall be forfeited and the bidder may be black listed.
2. Alternate offer shall be accepted. If the bidder purchase separate documents and submit prescribed earnest money along with their alternate offer.

**PURCHASER’S RIGHT TO VARY QUANTITIES:**

The purchasing authority reserves the rights to increase / decrease or delete the quantities of goods at the time of award of contract and also reserves the right to enhance the quantity of goods originally specified in the schedule of requirement without any change in unit price or other terms and conditions of goods at any time during contract period.

1. **PURCHASER’S RIGHT TO ACCEPT ANY BID AND REJECT ANY OR ALL BIDS:**

The Competent authority reserves the right to purchase full or part of the store or ignore / scrap / cancel the tender as per relevant rules of SPPRA-2010(Amended 2013),as amended till date.

1. **PERFORMANCE SECURITY:**

The successful bidders will have to deposit the requisite security in the shape of a Pay Order / Demand Draft at 2% value of the order amount and after the successful completion of stores the same will be released.

1. **CONTACTING THE PROCURING AGENCY:**

No Bidder shall contact the Procuring Agency on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract Award will result in the rejection of the Bidder’s bid and subsequent black listing. Canvassing by any Bidder at any stage of the Tender evaluation is strictly prohibited.

1. **UNDERTAKING on Rs.100/- Non Judicial Stamp Paper**

4.1 I/we read / understand the conditions specified in the tender inquiry and undertake:

4.2 That I/we shall remain bound to supply any item as an additional quantity at the same rateon which said item I/we have supplied during the contract period.

4.3 That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item.

4.4 I/we also agreed to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.

4.5 I/we undertake that, if any of the information submitted in accordance to this tender inquiry found incorrect, our contract may be cancelled at any stage on our cost and risk.

4.6 I/we undertake that, I/we have never been black listed.

**The technical offer must be submitted with the following documents:**

There will be a two-stage technical evaluation. **Preliminary Evaluation** of technical bids will be done on the basis of following parameters:

1. RO or Lead bidder should be a Pakistani Company **OR** a branch office of a Multinational Corporation having local presence
2. Comply with specifications mentioned in this RFP.
3. Bidder or its business consortium should be in the business of supplying Hospital & Medical equipments from last 5 years at minimum.
4. Bidder should propose all equipment strictly compliant with given technical specification.
5. The responding organization (RO) should be a manufacturer or authorized Partner, **from the original manufacturer**. The responding organization (RO) is required to submit the **Manufacturer Authorization Letter** in the favour of the client.
6. Financial proposals will only be considered only for those bidders who are short listed in technical evaluation.

Following are needed to be mentioned in proposals Financial Strengths, General Standing in the business and market, list of clients and achievements, registration and affiliations etc. The Technical and Financial Bids shall be evaluated on the basis of following parameters:

1. Company Profile with complete address, telephone No. Fax. No. and e-mail address and contact person.

2. Evidence of Relevant experience.

3. Affidavit that the firm is not blacklisted;

4. Document Fee and Bid Security of the specified form and amount as per Tender Document in a separate sealed envelope.

5. Bid must be signed, named and stamped by the authorized person of the firm along with authorization letter

6. Valid NTN, GST, PST and any other valid Tax Registration Certificate required by law in force.

1. In case of joint venture, names, company profiles, NTN, GST, PST Registration Certificates and authorization letter of the JV Partner on Stamp Paper of the prescribed denomination to bid shall be required.
2. Product Data Sheets / Brochures of the products offered.
3. Complete schedule of supply & installation is to be provided.
4. Ability to provide after sales support.
5. A comparative sheet may be attached in the format indicating compliance of essential tender requirements in the format given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No** | **Tender Requirement** | **Compliance** | **Non- Compliance** |
| 1. | Bid submitted in prescribed format with required technical documents |  |  |
| 2. | Delivery schedule compliance |  |  |
| 3. | Support & Maintenance compliance |  |  |
| 4. | Technical skills compliance |  |  |

# Selection Criteria:

# Single stage two-envelop procedure under SPP Rules 2010 (Amended 2013), as amended till date will be used for the final selection of the vendor for supply of Hospital & Medical Equipments to “Sindh Employees’ Social Security Institution (SESSI)”, Government of Sindh. Bid / Proposal shall comprise one single envelope containing the technical & financial proposal separately sealed and required information mentioned in General Terms & Conditions. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

Instructions for Responding Organizations

**Communication**

Enquiries regarding this tender document shall be submitted in writing/email to:

**Vice Commissioner, Sindh Employees’ Social Security Institution (SESSI)**

**vc.sessi@gmail.com.**

**Mode of Delivery and Address**

Proposals should be submitted on or before 22-03-2016 at **02:00** PM at the address given below:

**Vice Commissioner “Sindh Employees’ Social Security Institution (SESSI)”, Government of Sindh at his office situated at Aiwan-e-MehnatKash, ST-17, Block-6, Gulshan-e-Iqbal, Karachi 75300**

Proposals shall be delivered by hand or courier so as to reach the address given above by the last date indicated for submission. **PROPOSALS RECEIVED BY FAX OR EMAIL SHALL NOT BE ACCEPTED.**

**Submission of Proposal**

Proposals can be submitted on or before 22-03-**2016 at 02:00 PM** at the office of Vice Commissioner, Sindh Employees’ Social Security Institution (SESSI),at Aiwan-e-MehnatKash, ST-17, Block-6, Gulshan-e-Iqbal, Karachi 75300,Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned in General Terms & Conditions.

**Opening of Proposals**

The technical proposal submitted against the subject tender document will be opened by the Procurement Committee of Sindh Employees’ Social Security Institution (SESSI),at Aiwan-e-MehnatKash, ST-17, Block-6, Gulshan-e-Iqbal, Karachi 75300,on 22 **March 2016at 03:30 PM** in the Committee room in presence of all the bidders, or their representatives, who may choose to be present.

**Evaluation and Comparison of Technical and Financial Bids**

Bid / Proposal shall comprise one single envelope containing the technical & financial proposal and required information mentioned in General Terms & Conditions. All bids received will be opened and evaluated in the manner prescribed in the evaluation criteria of bidding document.

**Mandatory Clause**

* The interested bidder must have valid NTN, GST, PST registration certificates as precondition for their eligibility for participation in the bidding process.
* The bidder must partner of principle/manufacture/Importer/Distributor for equipment quoted and their allied peripherals.
* The bidder must provide the Manufacturer Authorization Letter addressing the SESSI in favor of Bidder or its Joint Venture Partner.

# Basis of Evaluation and Comparison of Bid

The financial bid of only those bidders will be opened who qualify the following evaluation criteria against the tender. The financial bid of disqualified/non-compliant bidders will be returned unopened.

**Evaluation Criteria:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.#** | **Evaluation Parameter** | **Marks** | **Description & Document Required** |
| 1 | Technical Proposal | **1000** |  |
| **1.1** | **Company Profile** | **250** |  |
| 1.1.1 | Taxation Certificates  (NTN, STN & PST) | 0 | Mandatory |
|  | Years in Business | 50 | 5 years in relevant Business  (Please provide evidence) |
| 1.1.2 | Bidder’s Business Partners | 75 | At least 3 years partnership with Principal (s) (Please provide evidence) |
| 1.1.3 | Bidder’s Certification | 50 | ISO 9001-2008 & ISO 13485-2003  (Please Attach Valid Certification) |
| 1.1.4 | Company Size  50 employee's or more =50  30 employee's or more =20 | 50 | Bidder must have 50 regular employees registered with EOBI or SESSI and their monthly contributions must be paid to EOBI or SESSI on company payroll.(Please attach proof of company payroll and EOBI or SESSI monthly contributions) |
| 1.1.5 | Legal Requirements | 25 | Authorization letter from Principal/ Manufacturer for quoted Items |
| **1.2** | **Relevant Experience** | **600** | **Relevant Experience** |
| 1.2.1 | Experience of minimum 10 projects / machines of quoted items in Government sector with supply of same nature of equipments to the medical institutions/hospitals. | 250 | The bidder has successfully completed at least (10) purchase orders for the supply of quoted items with installation, testing and commissioning in hospital & medical institutions in Sindh Worth 300 million or above. (Attach Successful completion certificates) |
|  | Team Member Certifications  (15 marks for each certified Professional) for quoted items | 150 | Must have at least  3 X Equipment Technicians (ET)  1 X Diploma Engineers (DAE)  3 X Field Service Engineers (FSE)  3 X Graduate Engineers (CBEE)  (for Hi-Tech/Critical Equipments of relevant field is mandatory)  (MSC-PHDQualification/Foreign Training) Attach Certificates & Pay Roll for 1 year |
| 1.2.2 | **Product Certifications**  03 certificates = 25 marks  02 certificates = 10 marks | 25 | 1. Food & Drug Administration FDA (501K) (AND) 2. European community (CE) 3. Japan Industrial Standards (JIS) |
| 1.2.3 | **Product Global Performance/ Acceptability**  04 certificates = 50 marks  02 certificates = 20 marks | 50 | Worldwide satisfactory performance certificates from the medical institution or the globally recognized Certification Bodies.   1. Association for the Advancement of Medical Instruments (AAMI) 2. International Certification Commission (ICC) 3. The United States Certification Commission (USCC) 4. Any other Certification |
| 1.2.4 | **Testing & Calibration Equipments**  **Inspected by GL, TUV-Sud or DNV etc to meet IEC 60601 and IEC 62353 standards** | 100 | List of tools, testing equipment and calibration equipment relevant to the product. Inspection of equipments will be carried out by SESSI for the verification. |
|  | **After Sales and Support, Provide list of zonal offices with technical staff.** | 50 | Spare Parts (Inventory List with rates for 01 year) |
| **1.3** | **Financial Capabilities** | **150** |  |
| 1.3.1 | **Financial Capabilities in last 3 years:**  More than Rs: 400 million or above Annual turnover  **(150 Marks)**  Less than Rs. 400 million but more than 250 million Annual turnover **(50 Marks)** | **150** | **Provide 3 years Audited financial statements** |
|  | **Total Marks** | **1000** | (Technical Proposal) |
|  | **Passing Marks** | **800** | (Technical Proposal) |

Note:

1. Firm must get 80% i.e. 800/1,000 marks in Technical Proposal for qualifying as per above mentioned criteria.

2. For verification of above information, the procuring agency or its nominee(s) may visit the  
 premises of the firm at any time during evaluation process and will take necessary action in case of false presentation of documents.

**Preliminary Evaluation Checklist**

Bidders are required to furnish relevant information required in the evaluation criteria in the prescribed Technical Evaluation Forms provided in the document

## Training

The responding organization (RO) should arrange local training for Staff (Four Persons) of supplied equipments. RO should provide the detail training contents and timeline trainings.

## Documents Establishing the Conformity of Proposed Solution to Bidding Documents

1. The Bidder shall furnish, as part of its bid, documents establishing the conformity to the Bidding Documents of the proposed solution that the Bidder proposes to supply and install under the Contract.
2. Delivery schedule for items in BOQ will 90 days after singing of the contract.
3. Bids for sub-systems or portions or part-solutions of the hospital and medical equipments shall not be accepted.
4. The documentary evidence of conformity of the proposed hospital and medical equipments to the Bidding Documents shall be in the form of written descriptions, literature, diagrams, certifications, and client references, including:
5. Detailed description of the essential technical and performance characteristics of each component making up the hospital and medical equipments;
6. Detailed drawings, design parameters, design calculations, put-up sheets and outputs of any tools used for capacity planning and designing of the hospital and medical equipments;
7. An item-by-item commentary on the Purchaser's Technical Requirements, demonstrating the substantial responsiveness of the proposed hospital and medical equipments offered to those requirements. In demonstrating responsiveness, the commentary shall include explicit cross-references to the relevant pages in the supporting materials included in the bid. Whenever a discrepancy arises between the item-by-item commentary and any catalogues, technical specifications, or other pre-printed materials submitted with the bid, the item-by-item commentary shall prevail;
8. Data Sheets of all hospital and medical equipments offered;
9. Written confirmation that the Bidder shall accept responsibility for the successful integration and inter-operability of all hospital and medical equipments as required by the Bidding Documents.
10. The bidder shall categorically confirm the specification of RFP in all respects.
11. Bids submitted without the above desired confirmation and documents may be rejected straight away.

# Special Instructions:

* Incomplete applications will not be considered.
* Any firm, which furnishes wrong information, will be liable for legal proceeding and if any contract is awarded, the same will be cancelled.
* Sindh Employees’ Social Security Institution (SESSI), reserves the right to accept or reject any or all proposals without assigning any reason thereof.
* The financial bid must be filled in prescribed form without any alteration/over writing.
* Conditional tenders/bids will not be acceptable.
* Sindh Employees’ Social Security Institution (SESSI), reserves the right to increase or decrease the scope of work / number of items without assigning any reason under relevant provisions of SPPRA Rules 2010(Amended 2013), as amended till date)..
* Only companies registered with Sales Tax, Income Tax & Sindh Revenue Board Departments shall be eligible to participate in the tender (proof of registration is required).
* Every page of this tender document should be signed and sealed by the bidder.

# Contacting the Purchaser:

Any effort by a bidder to influence the Purchaser in the Purchaser's decisions in respect of bid evaluation or Contract award will result in the rejection of the bidder's bid.

# Purchaser's Right to Accept the Bid or Reject the Bid:

The Purchaser reserves the right to accept or reject the bid and to annul the bidding process at any time prior to award of Contract, without thereby incurring any liability to the bidder or any obligation to inform the bidder of the grounds for the Purchaser's action as per SPP Rules, 2010.

# 

# Bill of Quantities (BOQ)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.N** | **Name of Equipment** | **Specification** | **Model/ Make** | **Qty** |
|  | **FOR K.V.S.S HOSPITAL** |  |  |  |
| 1 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 2 | N.I.B.P. Monitor (non-invasive blood pressure monitor) | Oscillometry for NIBP measuring, Photoelectric Oxyhemoglobin Inspection Technoloav Capacity Pulse Scanning & Recording Technco , Systolic Pressure(SYS) Diastolic Pressure(DIA) Mean Pressure (MAP) Sp02 Pulse rate (PR)  NIBP monitoring  Measurement method: Oscillometry  Measurement mode: manual/auto/continuous.  Auto measurement interval: adjustable from 1 to 90 minutes.  Resolutioh 1mmHg.  Accuracy: Maximum Mean deviation <.±5mmHg, Maximum Standaratleviation <5.8mmHg.  Self-check function.  Overpressure protection: double protection for software and hardware. Range: Adult  Systolic pressure: 40mmHg-270mmHg  Mean pressure: 20mmHg-235mmHg  Diastolic Pressure: l0mmHg--215mmHg  Pediatric:  Systolic pressure: 40mmHg-200mmHg  Mean pressure: 20mmHg-165mmHg  Diastolic Pressure: lOmmHg--150mmHg  Neonatal:  Systolic pressure: 40mmHg-135mmHg  Mean pressure: 20mmHg-110mmHg  Diastolic Pressure: 10mmHg--100mmHg  Sp02 Continuous real-time measuring. Adopt digital Sp02 technology, which has strong anti-interference capability. Real-time display Sp02, pulse rate, Plethysmo-gram, bar graph, Sp02 and Pulse rate (PR) trend graph. Standard finger-clip probe for adult, binding probe for neonatal is optional. Sp02 Measuring  Accessories:  A power cord  A power adapter A Sp02 probe  An adult NIBP cuff  An extending tube for blood pressure (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |
| 3 | Stretcher Trolley | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Any | 4 |
| 4 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And 3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 5 | Auto clave for dental instrument | Features:  Class N  Digital sterilization cycle recorder (SD & USB)  Overheat protection  Pressure overload protection  Pressure safety valve  Pressure auto-lock  Micro switch door lock  Emergency stop button  Chamber capacity 16-Liter Sterilization Temp (121 and 134 C)  Control system Microprocessor  Life time: 7 years | Any | 1 |
| 6 | Dental Imaging system | Technology: Imaging plate (PSP = Photo Stimulable Phosphor plate) Pixel size (selectable) : 30 µm (SUPER RESOLUTION)  60 μm (HIGH RESOLUTION) Resolution 17 lp/mm Readout time 5 - 10 seconds (depending on the plate size) Connection: Standard network connection (Ethernet RJ45) Dimensions (H x W x D) 152 x 227 x 308 mm (6 x 8.9 x 12,1 “) Weight 3.5 kg (7.7 lbs) offers consistent, enhanced diagnostic quality with high contrast images with accuracy to the smallest clinical details - automatically and repeatedly.  Operating voltage 100-240 VAC, 50/60 Hz Operating system Windows 7 or Windows 8 | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 7 | Dental Unit | 3 Hand pieces over the patient delivery system.· flexible balance arm., Stainless steel instrument tray, Rectangular air pressure gauge, Water flow control, Individual air pressure controls.· One 3-way syringe for doctor, 3-Aseptic easy clean, tubings and fittings for the hand pieces.· Air operated foot switch.· X-Ray Viewer compatible with the unit. · The movement of the chair through hydraulic pump and solenoid valve· Movable right arm rests · Headrest adjustable for Pediatric/adult use · Emergency stoppage by single touch of switch.· Solenoid valve operated on 12V AC for safety. · Up/down and back/forward movements. · Smooth seamless upholstery · Built-in water pressure bottle systemLIGHT:· 12V, 55W, 4500°K day light for perfect· Matching of colors, up, down, back forward and inverse movements of the light head.· Light Intensity Low: 16000 lux· Light Intensity High: 24000 lux· Time controlled automatic adjustable cup filler.· Bowl Flush.· Saliva Ejector (Air operated).· Air, Water, supply lines in junction box.· Safe electrical compartment with transformer, fuse,main switch etc. to give output. 24 VAC for safety.· Main 220/240V.DENTSIT STOOL· Operating stool with adjustable height· Gas spring operated· Revolving on 5 castors, one· with back support. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 8 | OBTURA | American based make | Any | 1 |
| 9 | Oil Free Compressor | Chinese | Any | 1 |
| 10 | OPG MACHINE | with Cephalometric & Segmental View, with Computer, Printer, Monitor & Stabilizer (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 11 | Coblation treatment unit complete set for ENT Surgery | * OTORHINOLARYNGOLOGICAL THERAPY SYSTEM * Integrated water supply system with warming up function (up to 37° C), * Ergonomically designed waste pond, quiet compressor (almost silently), * Continuous mechanical pressure setting in the extractor and sprayer, ergonomic operator interface, * LCD display with control systems for patient positioning, * Water temperature, instrument warm up etc., * Comfortable surface for storage of patient data * Backrest can be moved up to a horizontal position, which transforms the chair to an operating table, * Automatic system shut down after two hours of continuous operation, * Halogen light source (up to 3 light sources optional), * Ergonomic positioning of the instruments, boxes, drawers and shelves, * Adjustable spotlights with side bracket, adjustable in height and angle, automatic armchair positioning in one of the two positions, which are pre-programmed by the user   Unit Complete with   * Light source with reflector 1 pc * Medicines sprays (2 straight, curved 1) 3 pc * Preheating device for endoscopes, instruments and mirrors 1 pc * Compressed air device for the flushing 1 pc * Instrument tray 6 pcs * Cotton wool holder 1 pc * Medical bottle for oily and aqueous substances 6 pcs * Integrated waste container 2 pcs * Instrument tray with lid 1 pc * Integrated inlet for cold light source 1 pc * Water-supply system with warming up function (up to 37°C) * Air compressor 1 pc * Suction device 1 pc * High quality 1CCD video camera 1 pc * Cold Light Source 1 pc * High quality medical monitor (15”) 1 pc * Sinuscope (30°, 175mm, 7.5mm) 1 pc * Laryngoscope (90, 179mm, mm) 1 pc * Otoscope (0°, 90mm, 4 mm) 1 pc   PATIENT CHAIR   * Headrest, seat and backrest are made of high quality leather, * Fixed head restraint in a comfortable position, * Electro-hydraulic drive with 180° rotation, * Adjustable elbow support, headrest, height adjustment, conversion to an operating table gives the possibility for surgery, foot switch operation, operation of the workstation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 12 | Direct Laryngo scope and Oesophaposcope with light source & forceps (Complete set) | Complete set with all forceps | Pakistani | 2 |
| 13 | ENT Operating Microscope with observer lens picture & Movie Recording facilities | Main Body with motorized zoom (Ratio 1:6)&Motorized fine focusing, Manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Built-in manual Vareo Objective from f = 200mm to 400mm , 1st illumination system 15V/150W halogen coaxial illumination second lamp ready to use. Xenon second illumination system, Floor stand, Equipped with 1CCD Camera with CCU, Beam splitter, Monitor. FDA/CE/JIS certified (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 14 | ENT Unit complete with patient chair & Doctors Stool | Two stage separate system with additional part with space for instruments and used instruments, instrument cabinet is self illuminated with acrylic cover, Compressed air with12 L/min at 2700 RPM and 138 VA, 0,2 to 2,5 bar adjustable, Automatic Suction with Oil-free vacuum pump (150 VA): suction performance 40 l/min, 0 to -0,85 bar, sensor switch for suction hose, electronic and mechanical safety overflow system with antibacterial filter, Ear rinsing system, Autonomous ear rinsing system, Watertank, Surgeon Stool, Patient Stool.FDA/CE/JIS Certified (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number | Manufacture USA/ Europe/Japan | 1 |
| 15 | Functional Endoscopic Sinus Surgery (FESS) | Complete with forceps & Debrider & Camera, Monitor & Blades with All Accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 16 | Flexible Nasopharyngoscope | Camera Cl Classic Compact, PAL-camera, camera head + smart box - CVBS/USB II  LED light source LL020, with battery and charger  Nose-Pharyngoscope, high resolution, deflection up 140°, down 140°, 3.2 mm x 300 mm, direction of view 0°, wide angle, soakable and gassterilizable, with ETO-valve, 16 k | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 17 | Head Light | Long operating life, More energy efficient than incandescent, Halogen lamps, Cool beam is safe to touch, Instant light (less than 100ns), Virtually maintenance-free operation, No UV rays, Five-watt Solid State lamp, color temperature 5500 degree Kelvin, 50 Lumens, estimated life of up to 10,000 hours continuous burn, Working Distance : 16 Inch, Spot Size Range : 1.5 to 6 inches Weight : 6 ounces, Battery Run Time : One hour continuous run-time on a fully charged battery, complete with head band & direct power supply.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 7 |
| 18 | Mastoidectomy Drill with burs(electric) Polishing, Cutting & Diamond Burs of Different size | Hand Piece  Modular high speed hand piece.  Variable speed throttle.  Electric Power Console  Electric Instrument Control Console  Runs two handpieces simultaneously  Integrated irrigation pump  Intuitive graphical user interface  Precise instrument control  Cable for Electric Instruments  Drill attachment  Operating Speed: 30,000 RPM  built-in medium length bur guard.  Round Cutting Carbide Bur, 1.0 mm (1)  Round Cutting Carbide Bur, 1.5 mm (1)  Round Cutting Carbide Bur, 2.0 mm (1)  Round Cutting Carbide Bur, 2.4 mm (1)  Round Cutting Carbide Bur, 3.0 mm (1)  High-Speed Drill Coupler  Operating Speed: 90,000 RPM  High speed for bone sculpting  Well-balanced, high-performance Oral and maxillofacial, plastic and reconstructive surgery  20° Angled Drill attachment  Operating Speed: 30,000 RPM  Torque 7.0 in / oz  The 20° angled drill head with twist locking mechanism is particularly useful for precision bone sculpting, cutting, and drilling procedures in orthopedics and reconstructive surgery.Built-in medium length bur guard. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 19 | Otoscope | Delivers almost twice the field of view at higher magnification compared to standard Otoscope making it easier to visualize the auditory canal and tympanic membrane. Instrument is a significant advance in hand-held otoscopy, providing an improved view for enhanced learning and decision making.• A nearly complete view of the tympanic membrane with approximately twice the field of view and 30% greater magnification than a traditional Otoscope• Better clarity and definition of landmarks• The ability to adjust focus for variable ear canal length or farsighted eyes• Tip grip for secure fastening and ejection of ear specula• Fiber optics produce cool light with no reflections, no obstructionSTANDARD ACCESSORIES.• Main Unit• Built-in throat illuminator• C-cell battery handle FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 5 |
| 20 | Pure Tone audiometer Machine | PC based Free field, printing system speech discrimination, SQL data base, Air & bone conduction ,Pure tone up to 16 kHz, SISI test, Lüscher test, Langenbek test, Weber / Rinne, Stenger test, Discomfort threshold, Tinnitus determination and – masking, Individual speech tests with own diagrams. Complete with headphones Sennheiser HDA 200,Bone conductor Präcitronic KH 70, Patients button, Microphone for communication with test person, Monitor earphone, Cable set, Laptop with laser black & white printer.FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 21 | Suction Machine | · Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and wall-mounted v-socket x 1. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |
| 22 | Tympanogram machine | Tymponogram can be within seconds fully automatic Impedance measurement performs. All functions as well as curves and data on an LCD display shown. Hereby the measurement result can be considered before the documentation in misprinting avoided. 3 color LED on probe for indication of the examination. Reflex tone range 00, 1000, 2000 und 4000 Hz bei 85, 95 und 105 dB HL, Probe tone 226 Hz, 85 dB SPL, Built-in printer, Set of air tips. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 23 | 3d OCT with non-mydriatic Retinal camera Fundus Angiography and Anterior segment OCT | SLO based 3 dimension (3D) OCT, All in One system, with RFNL with nominative data base, Retest facility with fundus registration, Cup disk analysis, 3D ONH ( optic Nerve Head) Topography, 3D retinal topography, Pachymetry, Radial scanning, Line scanning, Raster scanning, Built-in micro perimetry, Anterior segment lens, Complete with computer, stand and printer. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 24 | 3d OCT with non-mydriatic Retinal camera Fundus Angiography and Anterior (FAA) segment OCT | 50 degrees fundus view angle, Pupil Size ø 5.2 mm (SP mode 4.3 mm) , Photography Mode X2(digital) ,Color / FA / Red free / Cobalt ,Working Distance 35 mm, Camera EOS digital SLR (18 Mega Pixel), Fixation Target, External &Internal fixation target , Patient diopter compensation –31 D ~ –7 D,  –10 D ~ +15 D (standard), +11 D ~ +33 D, Focus adjustment Split lines, Fine adjustment ,Reflection dots , Panning and tilting range 30 degrees to the left and right15 degrees up, 10 degrees down, Light source Xenon tube for photography, Halogen lamp for observation, complete with Stereo unit, Internal eye fixation unit, Chin rest paper& RICS software . FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 25 | Air puff tonometer | Non-Contact Air Puff Tonometer • Type: on-contact tonometer + Pachymeter • Measurable Range:Non-contact tonometer:0 to 60mmHg Includes automatic shifting between 30 / 60mmHg Non contact Pachymeter:150 to 1300µm • Measuring Increment :Non-contact tonometer:1mmHg Non contact Pachymeter:10µm • Eye Fixation Target :Non-contact tonometer:Inner fixation light / External eye fixation light • Light Source: Non contact Pachymeter: Blue LED • Operation Distance: 11mm from the front of nozzle • Alignment :Full Auto / Auto / Manual • Memory: Max. 10 measurements for each eye • Data output: RS232C, USB, LAN • Power-saving System 5mins. / 10mins. / 15mins. / OFF (4 levels selectable) • Display: Tilt able 5.7-inch color TFT LCD monitor • Printer: Thermal line printer with auto cutter • Power Supply: AC100 - 240V, 50 / 60Hz, 0.4 - 0.8A • Operating Range: Front / back:40mm Left / right:90mm Up / down:30mm • Components, Main unit: 1  Nozzle cap: 1 Chin rest paper: 100 sheets Printing paper: 2 rolls Power cable: 1 Dust cover: 1 FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 26 | Digital Photographic Attachment for Slit Lamp | DC-3, 8M pixel | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 27 | Lenstar Complete Optical Biometry | Non-Contact Optical Biometer with IOL Toric planner | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 28 | Ophthalmic Unit with Projector | • Sliding table top for two instruments • Control Pannel for instruments and chair. • Prima chair with electrical height adjustment with either black skai or grey dotted skai upholstery. • Ophthalmic unit is equipped with a anti-dust foldaway drawer, site | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 29 | Ophthalmic Unit | Rondo with Prima Chair & Projector | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 30 | Multi wave Length Pattern Scanning laser (577nm & 610nm) | Laser power output for Yellow is 2W &Red is 700mW .Optically Pumped Dual Diode Solid State system, Scan Patterns are Single, Line, Square (2x2, 3x3, 4x4, 5x5), Macular Arc (Single, double, triple, 1/4, 1/2, 3/4),Circle and Triangle - Spot width, density and 360 degree rotation available for each pattern, Integrated slit lamp, with elevated stand.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 31 | Pascal Pattern Scan Laser Photocoagulation (Green) | Pascal Synthesis 532nm (Green) with D4 Slit Lamp | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 32 | Video System with X-Y Translator for Operation Microscope | Beam Splitter Beam splitter 50 / 50 for the attachment of documentation devices. TV Relay Lens Provides a mount to attach color video camera  Color video camera 1 CCD color video camera a clear, sharper and high resolution Image Provides 2,100,000 pixels | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 33 | Birth Simulator | Lead Instruments LM 63A R 10180 R 10186 (Fetus + Pelvis) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 34 | CTG Machine | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 35 | Delivery table with poles | Heavy Duty M.S . Structure Powder Coated, Synthetic Leather Upholstery, Extension Auxiliary Table, Complete with Back rest & Knee rest support, Telescopic I.V. Pole of S.S. four Antistatic Castor Wheels, Stainless Steel Bowl, Leg Support Size. 6' x 2' | ManufacturerKorea/Taiwan/China | 4 |
| 36 | Hospital UV Disinfection System | The system should comply with NFPA 99 and EPA standards Establish No: 89568-IN-001/89568-IL-001  The system should be free from by-products i.e. Ozone or secondary decontaminant so that the OTs or ICU can be occupied immediate after the use.  The system should be mounted on UV- energy resistant base and also should have large diameter castors for easy mobilization.  The unit should have double protective covers for lamps as door barrier for safe exit or entrance of the unit.  They system must have wireless remote control system that allow the user to monitor the status of disinfection cycle without entering the room.  The life of the lamps should not be less than 12000 hours.  The unit should be equipped with a 360° motion and heat sensor not intended for use as primary safety device system.  The unit should have an emergency stop system on the base to provide a quick and safe way to shut off the UV lights.  The system should have at least four pre-programmed UVC cycles- (Bacteria/Virus at distance 2.5 to 4.5 meter should take 4 to 9 minutes per cycle time and Bacteria spores at distance 2.5 to 4.5 meter should take 11 to 25 minutes per cycle time)  Technical Data  Internal fuse rating 20 Amp  Power cable length at least 4.5 meters or better  Lamp type: GML 515  Lamp quantity: Minimum 24  The length of each lamp: at least 40” or better  Controller rechargeable battery life: 8 hours | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 01 |
| 37 | Electric Hot Air Oven | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 38 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 39 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified. | 2 |
| 40 | Auto Clave | Any | Any | 1 |
| 41 | Hot Air Oven (Electric) | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 42 | Laparoscope | HD LAPAROSCOPE (MINIMAL ACCESS SURGERY) FOR GENERAL SURGERY  HD Telescope  HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 30 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT WITH BUILT IN RECORDING SYSTEM (PAL SYSTEM)  Latest Technology 3chip HD video Camera system with built in recording system 164 GB to 300GB  data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board and USB  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste  MEDICAL GRADE LED MONITOR  Medical grade HD 26” LED or more  Resolution 1920 x 1080 pixel with Aspect ratio 16:9  Average Brightness 600cd/m2  45 LITER LAPAROFLATOR  Microprocessor controlled automatic preselectable intra-abdominal pressure range 3-30mmHg  with Maximum gas flowrate atleast 45 L / min. with external Gas filter  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Neonatal Mode and smoke evacuation facility  Facility to connect CO2 bottle and Central Gas Pipe line System  Pressure gas flow rate and gas consumption display digital  External gas filter for test the CO2 gas  Indication for CO2 reserve pressure  Imported Gas cylinder (02)  SUCTION / IRRIGATION UNIT  Suction / Irrigation system upto 3Liter/ min and aspiration performance 20l/min  System complete with standard Accessories and operating manual  TROLLEY  Trolley mounted fabricated lockable wheels with dust cover for whole system with transformer same manufacturer  VOLTAGE STABILIZER  Servo motor type with spike protractor suitable for the above equipment.  STORAGE BOX  Storage box for instruments and optics of the same manufacturer as that of the instrument and optics  BASIC MINIMAL ACCESS REUSABLE INSTRUMENTS SET.   |  |  |  | | --- | --- | --- | | S# | Description | Qty | | 01 | 5-5.5 mm Trocar and cannula | 02 | | 02 | 10-11 mm Trocar and cannula | 02 | | 03 | Grasper 10 mm toothed and non-toothed | 01 Each | | 04 | Grasper 5 mm toothed and non-toothed | 01 Each | | 05 | Dissecting forceps 5 mm straight and curved | 01 Each | | 06 | Dissecting forceps 10 mm straight and curved | 01 Each | | 07 | Medium large clip applicator | 01 | | 08 | Reducing sleeves 10-5 mm | 02 | | 09 | L-hook | 01 | | 10 | Diathermy electrode L-hook 5 mm | 02 | | 11 | Spatula electrode Ø 5 mm | 01 | | 12 | Straight scissors insulated 5 mm | 01 | | 13 | Hook scissors insulated 5 mm | 01 | | 14 | Aspiration needle 5 mm | 01 | | 15 | Needle holder 5 mm | 01 | | 16 | Suction and irrigation tube with blunt | 01 | | 17 | Bipolar Grasping Scissors Straight and Curved Jaws | 01 | | 18 | Biopsy forceps insulated 5mm | 01 | | 19 | Gallstone scoop forceps | 01 | | 20 | Endo Retractor Ø 10 mm, fan shape | 01 | | 21 | Knot pusher | 01 | | 22 | Bipolar diathermy electrode | 01 | | 23 | Monopolar and Bipolar Connection Cable | 01 Each | | 24 | Cleaning Pistol, Complete with eight adaptor Special oil for Instrument care, Cleaning brush Ø 5mm and Cleaning brush Ø 10mm | 01 | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 43 | Neonatal Resuscitation Trolley | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flowmeter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 44 | Suction Machine | Mobile suction pump Oil-Less Piston along with 4 anti-static wheels with lock convenient for operation and delivery, with following performance features: Built-in Vacuum gauge with a range from: 0-760 mm Hg adjustable. Flow capacity:- 40-50 liter per minute Explosion proof foot switch. Capacity of two graduated suction bottle.3,000 cc each. Heat resistant and disinfect able rubber tube for suction. Over flow safety device. Power requirement: 220/240V, 50 Hz. Complete with standard accessories withspare bottle | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 45 | Hysteroscope | HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 4 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT With Built In Recording System (PAL SYSTEM)  Latest Technology HD video Camera system with built in recording system 164 GB to 300GB data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with automatically intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 6500K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable tester  COLOUR MONITOR LCD 19”  LAPAROFLATOR 20 L/M  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Microprocessor controlled automatic preselectable intra-abdominal  pressure range 3-30mmHg  Maximum gas flowrate atleast 20 L / min.  Neonatal Mode and smoke evacuation facility  Variable insufflation low to high with actual intra-abdominal  Bariatric mode and Neonatal mode  Indication for CO2 reserve pressure  Accessories:  Veress needle, high pressure tubing, gas cylinder (1No.)  Irrigation Pump for Hysteroscopy  Trolley mounted fabricated lockable wheels and dust cover for whole system from same manufacturer  INSTRUMENTS SET.  Sheath for continuous irrigation  Monopolar connection cable 5m  Working element passive cutting  Loop electrode angle  Ball point electrode Ø3mm  Ballpoint electrode Ø5mm  Knife electrode  Biopsy forceps semi rigid 5CH  Scissor semi rigid 5 Ch  Myom fixation instrument 340mm | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 46 | Auto Coagulation Analyzer | 2-CHANNEL COAGULOMETR FOR ALL CLASSICAL CLOTTING METHODS •Optical system •Quarter volumes •PT- derived Fibrinogen •Automatic Optic Start (AOS) TECHNICAL DATA: •Display LCD 4 x 20 characters •Interface RS232 + printer connection •Thermal printer, width of paper 111 mm •Dimensions: 260 x 190 x 130 •Weight: 3 kg | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified / | 1 |
| 47 | Hb 1Ac |  |  |  |
| 48 | Decontamination instrument | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 49 | Five Part Auto Hematology Analyzer | 18 or more hematological parameters .WBC, RBC, and PLT. Colored display WBC-LYM#-MID#- GRN#LYM%-GRN%- HGB-RBC-HCT-MCVRDW- MCH-MCHCPLT- MPV-PCT-PDWWBC, RBC and PLT histogram Alarm system with auto diagnostic capabilities  50 or more samples/hour capacity. Blood sample volume 25ul  RS232 interface  FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 50 | GEL Documentation system | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 51 | Imunoluminesce auto Hormone Analyzer | Sample data base 2.000 tests for routine, STAT and control results Test methods Pre-defined assay protocols (sandwich, competitive, titration) Calibrator/QC Input Via rack or sample disk Calibration methods “Upon QC failure” triggered 2-point calibration per lot or per cobas e-pack QC methods Individual QC + cumulative QC Preventive QC after calibration Electrical requirements Power requirements: 100 –120 VAC 50/60 Hz single phase or 200–240 VAC 50/60 Hz single phase Power consumption 800 VA Water/waste requirements Water container 3 Liters Water requirements 10μS/cm or 0.1 mega Ohm, bacteria-free Water consumption approx. 3 L for 250 tests approx. 12 mL/cycle Regulatory requirements GS, CE, UL, C-UL, CB-report and certificate Operating conditions Ambient temperature: 18 to 32 °C (64.4 °F to 89.6 °F) Ambient humidity: 20% to 80% Noise Output: 60 dbA (stand-by mode) 63 dbA (avg. during operation) Physical dimensions Width: 1200 to 1700 mm (disk/rack) Depth: 730 to 950 mm (disk/rack) Height: 560 mm (w/o PC unit) Weight Approx. 170 kg (disk) and 210 kg (rack) FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 52 | Micro scope | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 53 | Emergency Point of Care | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 54 | P.C.R. Electrophoresis | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 55 | Thermal Cycler | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 56 | Crash Emergency Trolley | Trolley with over top shelf, made of 20g M. S. Sheet, upper two drawers of size 25” x 3.5” & lower two drawer of size 25” x 6”. Lower portion having flip up door cupboard size 25” x 13” controlling central locking system. Cabinet size 27” W x 18 d x 37” h, with 3” wheels and bumper all around ht 42”. Stainless steel top with ¾” raised edges all around and one push handle. One cylinder bucket, I.V rod SS in “W” shape hook, two SS hooks. Imported Or Best Imported Quality | Imported or Local Export Quality | 2 |
| 57 | Gastrointestinal Endoscope | HIGH RESOLUTION GASTROINTESTINAL VIDEOSCOPE with standard set of accessories. Field of view: 140° Direction of View: 0° Farward Depth Of Field: 3-100mm Outer Diameter: 9.2mm Angulation Range Up 210°, Down 90° Right 100°, Left 100° Working Length 1030mm Inner Diameter: 2.8mm Mimimum visible distance 3.0mm RESOLUTION COLONO VIDEOSCOPE with standard set of accessories. Field of view: 140° Direction of View: 0° Farward Depth Of Field: 3-100mm Outer Diameter: 12.8mm Angulation Range Up 180°, Down 180° Right 160°, Left 160° Working Length 1680mm Inner Diameter: 3.7mm Mimimum visible distance 3.0mm Video signal output Y/C, RGB, AND VBS composite; simultaneous output is possible White balance White balance adjustment is possible using the white balance adjustment switch on the front panel. Color tone adjustment "R" control: +/- 7 steps "B" control: +/- 7 steps Iris mode selection Average: Normal observation Peak: When focusing on and/or observing a small bring area. Image enhancement Fine patterns or edges in the endoscopic image can be enhanced electrically to increase the image sharpness. Setting Either the structural enhancement or edge enhancement can be selected. Patient data The following data and modes can be displayed on the video monitor using the keyboard. Items: 1. ID number 2. Patient name 3. Sex Age 4. Date of birth 5. Date /Time built in clock 6. fram no. 7. VTR condition 8. Zoom Ratio 9. Comments. Compatible High Resolution Medical Grade 21" Compatible 24" Color LCD Monitor Local Trolley Local Video Trolley with anticastor and keyboard drawer (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 58 | Small Equipment | Any | Any | 1 |
| 59 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |
| 60 | CRT panels | Any | Any | 5 |
| 61 | Fine General Instrument | Any | Any | 1 |
| 62 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. | Imported or Local Export Quality | 20 |
| 63 | Interlocking Nail Tibid | Any | Any | 10 |
| 64 | Scotch Cast | Any | Any | 3 |
| 65 | Sterillium with bottles & Holders | Any | Any | 15 |
| 66 | U/V Light | Any | Imported or Local Export Quality | 2 |
| 67 | Anesthesia Machine Fully Loaded | ANESTHESIA WORK STATION MACHINE WITH TWO VAPORIZER  3 Gas anesthesia workstation, O2, N2O and Air  Up to 1 x O2, and 1 x N2O cylinder can be connected  Pipeline/ Fittings/Gauges for central piping  1 x O2, and 1 x N2O Yokes & Gauges for Cylinders  1 x O2, and 1 x N2O and 1 x Air Pipeline, Pipeline fitting and pressure Gauges  Main working surface  1 x Monitoring shelf  1xSide folding shelf  Single O2 High pressure outlet/ Auxiliary O2/ Gases outlet  O2 Flush  Common gas outlet  Side rails and centrally braked castors with large brake paddle  Common Gas outlet  Side rail and castors with braked peddle  3 x Drawers  Scavenging System  Venturi Suction  1 KG Circle/ O2 absorber, fully autoclave, including Bag/ Vent switch, CO2 by pass and manometer gauge, complete with mounting bracket, disposable patient circuit, absorber detachable including Y- piece circuit, bag and fresh gas assembly  1 x Bag Arm  2 station selectatec Back bar to accommodate up to two vaporisers  1 x vaporiser, selectatec Type Tec 7 or equivalent, Isoflurane  1 x vaporiser, selectatec Type Tec 7 or equivalent, Sevoflurane  2 Pin Index Cylinder for O2  2 Pin Index Cylinder for N2O  Electronic/ Digital Flowmeter  Three gas Configurations (O2, N2O and Air)  Flow Range  O2 and Air: 0 to 12LPM  N2O:0 to 12 LPM  Total Flow meter 0 to 10 LPM Calibrated to O2  Peramagnetive type  Mechanical Hypoxic Guard for minimum of 25% O2/ Auxiliary flow meter  ANAESTHESIA VENTILATOR  Microprocessor Controlled anaesthesia ventilator  Full color 12” LCD/TFT Touch screen display  Automatic Leak and compliance Test  Fresh Gas and Compensation  Ventilation modes:  Manual/spontaneous  Volume control (IPPV)  Pressure control (PCV)  Pressure Controlled Ventilation Volume Guaranteed(PCV-VG)  Synchronized Intermittent Mandatory Ventilation in volume(SIMV-VC)  Synchronized Intermittent Mandatory Ventilation in pressure(SIMV-PC)  Pressure support (PS) with Apnea backup  Oxygen (FiO2) inspired & expired volumes, PAW, Pressure  Real time wave form for Flow, Volume & Pressure  Tidal Volume: 20 – 1500ml  IR Ratio: 4:1 -1:8  Frequency: 2-100bpm  Minute Volume: 03- 25LPM  Pressure limit: 10-70 cmH2O (Adult) & 10 – 50cmH2O (Paeds)  PEEP: 3 – 30cmH2O  Patient trigger: 1 – 15 LPM  Battery backup 120 minutes  User/ Alarms: High/ low Pressure: High/ Low minute volume.  High/ Low breath per minute (BPM) high/ Low Oxygen  Static Alarm: Apnea, settings Error, Low supply Gas  Inspiratory Flow Transducer Error, No Charge, Fresh Gas Too high, Ventilator Inoperative, Under pressure, Peep Error/ Sensor Error, power fail, Battery low  Apnea alarm in bag mode  VITAL SIGNS MONITOR  Modular Monitoring of vital signs of pediatric and adult patients  OPERATING FEATURES AND CHARACTERISTICS  Non fade display  Modular architecture, Different modules can be added later  Screen size 17” LCD/ TFT touch screen color display  Electro Surgical interference suppression/ Protection  Defibrillator protection  Pacemaker detection  Freeze and cascade facility  Adult & pediatric modes of operation, detection and alarms for all parameters  Minimum 12 waveforms for all required parameters  Waveform Trace speed: 6.25, 12.5, 25 and 50mm/sec  Compatible with central monitoring system trough wireless/ hardwire  Vital signs monitor have the capacity to measure  2IBP, ETCO2 at the same time.  STANDARD PARAMETERS:  ECG, NIBP, SpO2, 2 – Temperature, Respiration, Trends, Arrhythmia Analysis, 2-IBP, EtCO2(Capanography)Recorder  STANDARD PARAMETERS:  ECG:  Differential input protected against defibrillator  ECG cable with 3-5 Lead wires  Lead selection: 6 positions (Lead I, II, III. Avf, avr, avl) and V (chest leads)  Selectable Adult and pediatric operation modes  Diagnostic ECG Measurement with 10 lead wires patient cable for 10 or more ECG waveform. With 7 lead ECG wave form displayed at same time  Ability to detect adult &pediatric heart rate range, QRS widths and amplitudes  Numeric: Heart rate range 20-250bpm  Waveform real time  Lead off detection alarm on lead failure  Variable gain selectable ½, 1, 2 cm.mv  Heart beat indication beep/ tone with QRS detection  NON INVESIVE BLOOD PRESSURE (NIBP)  Method oscillometric principle  Numeric: Systolic, Diastolic and mean pressure  Rising Cuff/ Continuous pressure display  Ability to measure adult & Pressure display  Ability to measurement adult & pediatric BP range  Cuff for Adults and pediatrics patients  Cuff Pressure range 300mmHg  Selectable Pediatric and Adult operation mode  Selectable Pediatric and Adult initial and maximum cuff pressure and range  Selectable auto inflate interval settings  TEMPERATURE:  Numeric: Temperature selectable in 0C/ 0F  Channel: 2 channel or more  Two Temperature channel with probe (External and rectal)  Ability to measure adult & pediatric temperature range  PULSE OXIMETER:  Numeric: % Oxygen Saturation  Range : 0-100%  Numeric Pluse rate: 20-250 beat per min  Waveform: Plethysmograph pulse with strength indication  Sensor for Pediatrics & Adult patients  RESPIRATION  Impedance method using ECG leads for sensing  Respiration rate (RR): 1-150bpm  Ability to measure pediatric & Adult breathing rate range  Sweep speed: 6.25,12.5mm/sec  Settable apnea Alarm  RECORDER  2Channel recorder for printing of ECG waveforms  INVASIVE BLOOD PRESSURE MODULE  Two Channels  Numeric: Systolic, Diastolic and Mean pressure  Waveform: blood Pressure  Variable scale selectable  Adjustment: Zero adjustment for offset compensation  ARRITHEMIA ANALYSIS  View arrhythmia: 128 groups alarms + trends  View alarms: 128 groups alarms (audio+visual)  Full disclosure waveforms for 3 waves (24 hrs.)  TRENDS:  Trends for at least 168 hours with graphical tabular representation for all parameters  ALARMS  Selectable automatic adult and Pediatric mode alarm limits  High and Low (settable) on all parameters  Visual and Audible indication of alarms  Built in rechargeable battery with backup of at least 2 hours in case of AC power failure for full parameters.(02 battery for 2 hours)  Mounted with Anaesthesia workstation  STANDARD ACCESSORIES OF VITAL SIGNS MONITOR:  Adult finger sensor (Reusable)  MULTI GAS AGENT MONITORING MODULE | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 68 | Auto clave Horizontal | Any | ManufacturerKorea /Taiwan/China | 1 |
| 69 | Bed Side Locker | 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.  Local / Imported best quality iron made | Imported or Local Export Quality | 15 |
| 70 | Bone Drill (Pnaractic/Ortho) | Pneumatic Bone Drill System with Accessories (1 Nos)  Complete Pneumatic Drill System Consisting of:  Handpiece, Variable Speed Trigger allows for precise control. (1)  Power source compressed air  Nitrogen: 99.95%  Operating pressure 5-7 bar  Operating speed: 1,600 RPM. Torque 135 in. oz.  Fully autoclave able up to 3 bar over pressure 134°C  One hand operation “Forward / Reverse control” right on instrument base.  5/32” Jacobs Coupler Quick coupling connecting system. (1)  1/4" Jacobs-Style High-Torque Reamer Coupler. (1)  Nitrogen Regulator Single Output (1)  Air Hose with Hall/Zimmer connector, 10 foot length. (1)  Automatic Wire Driver for Accepts wire 0.7mm – 1.6mm (1)  Operating Speed 1600 RPM  Automatic Pin Driver with coupler (1)  Automatic Wire Driver with coupler, (1)  Operating Speed1600 RPM  Standard JACOBS Twist Drills different size (10)  Heavy-Duty Sagittal Saw Coupler (1)  Operating Speed 18,000 CPM  Reciprocating Saw Coupler (1)  Operating Speed 16,000 CPM  Reciprocating Saw Blade (10)  Supplied with different size blades (10)  Pulse Lavage coupler for Hand Piece (1)  Pulse Lavage instrument with Hall Style Hose connector (1)  Complete with Small, Medium, Large Splash, Shield, Nozzle with suction  Shawerhead nozzle with suction Tubing set with suction  Sterilization Case to holds 1 hand piece, Hose, 11-couplers, 1 pin collet & 1 wire collet (1) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 71 | Broncho Scope | Field Of View 120 deg Direction Of View Forward Depth of Field 3-50mm IT Diameter 5.0mm Up 180 deg Down 130 deg Working length 60cm Total Length 89cm Channel size 2.2mm | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 72 | NIBP | Cuff Pressure Range: (Normal operating range)  0 to 290 mmHg (adult/ped)  0 to 145 mmHg (neonate)  Maximum Determination: 120 s (adult/ped)  85 s (neonate)  Overpressure Cutoff: 300 to 330 mmHg adult  pead  150 to 165 mmHg  (neonate)  Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate)  MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate)  Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate)  SpO2  Measurement Range  SpO2: 1 to 100%  Pulse Rate: 30 to 250 bpm  Perfusion Range: 0.03 to 20%  Adult: 70 to 100% +/-2 digits  Whichever is greater (without motion)  Neonate: 70 to 100% +/-3 digits (without  motion)  Adult/Neonate: 70 to 100% +/-3 digits (during  clinical motion)  Low Perfusion: 70 to 100% +/-2 digits (during  clinical low perfusion)  Pulse Rate  Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)  Low Perfusion: 30 to 250 bpm +/-3 digits  Battery  Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.  Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.  Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 73 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 74 | Dressing Bag Sets |  | Any | 30 |
| 75 | Dressing Drums For Auto Clave |  | Any | 10 |
| 76 | ECG Monitor |  | Any | 2 |
| 77 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. Imported Or Best Local Quality | Imported or Local Export Quality | 20 |
| 78 | General Set | General Surgery Set General Surgery Set Complete in All RespectBowl Lotion 250 mm (2 Nos)Gallipot/Cup S/S 180 ml (2 Nos)Gallipot/Cup S/S 250 ml (2 Nos)Tray Kidney shape with Lid S/S 200x30 mm (2 Nos)Tray Kidney shape with Lid S/S 300x50 mm (2 Nos)Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos)Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos)Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos)Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos)Forceps Towel Holding cross Action S/S 100 mm (8 Nos)Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos)Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos)Handle size 3 for scalpel blades size 10-15 (1 Nos)Handle size 4 Scalple blades size 20-24 (1 Nos)Needle Holder Kilner’s 165 mm (1 Nos)Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos)Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos)Scissors Mayo’s CO Flat 200 mm S/S (1 Nos)Scissors Mayo’s Straight 200 mm S/S (3 Nos)Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos)Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos)Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos)Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos)Retr. Walton, malleable copper 13mm length 305mm (1 Nos)Needle Aneurysm S/S. Small 146 mm (1 Nos)Pin Safety Mayo, forceps holding, 120mm (4 Nos)Suction Tube Mclndoe (1 Nos)Suction Tube Poole’s S/S 225 mmSterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm.Made from imported stainless steel, Rust resistant and Satin finishLocal Manufacturers only can Participate directlyMust be CE Marked Product/ Export Quality | Any | 6 |
| 79 | Gum Elastic Bogies | Any | Any | 3 |
| 80 | Head Light ENT | Long operating life, More energy efficient than incandescent, Halogen lamps, Cool beam is safe to touch, Instant light (less than 100ns),Virtually maintenance-free operation, No UV rays, Five-watt Solid State lamp, color temperature 5500 degree Kelvin, 50 Lumens, estimated life of up to 10,000 hours continuous burn, Working Distance : 16 Inch, Spot Size Range : 1.5 to 6 inches Weight : 6 ounces, Battery Run Time : One hour continuous run-time on a fully charged battery, Complete With Head Band & Direct Power Supply. FAD/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 81 | Hot Air Oven | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 82 | Instrument Trolley | Any | Imported or Local Export Quality | 8 |
| 83 | Laparoscope set | HD LAPAROSCOPE (MINIMAL ACCESS SURGERY) FOR GENERAL SURGERY  HD Telescope  HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 30 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT WITH BUILT IN RECORDING SYSTEM (PAL SYSTEM)  Latest Technology 3chip HD video Camera system with built in recording system 164 GB to 300GB  data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board and USB  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste  MEDICAL GRADE LED MONITOR  Medical grade HD 26” LED or more  Resolution 1920 x 1080 pixel with Aspect ratio 16:9  Average Brightness 600cd/m2  45 LITER LAPAROFLATOR  Microprocessor controlled automatic preselectable intra-abdominal pressure range 3-30mmHg  with Maximum gas flowrate atleast 45 L / min. with external Gas filter  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Neonatal Mode and smoke evacuation facility  Facility to connect CO2 bottle and Central Gas Pipe line System  Pressure gas flow rate and gas consumption display digital  External gas filter for test the CO2 gas  Indication for CO2 reserve pressure  Imported Gas cylinder (02)  SUCTION / IRRIGATION UNIT  Suction / Irrigation system upto 3Liter/ min and aspiration performance 20l/min  System complete with standard Accessories and operating manual  TROLLEY  Trolley mounted fabricated lockable wheels with dust cover for whole system with transformer same manufacturer  VOLTAGE STABILIZER  Servo motor type with spike protractor suitable for the above equipment.  STORAGE BOX  Storage box for instruments and optics of the same manufacturer as that of the instrument and optics  BASIC MINIMAL ACCESS REUSABLE INSTRUMENTS SET.   |  |  |  | | --- | --- | --- | | S# | Description | Qty | | 01 | 5-5.5 mm Trocar and cannula | 02 | | 02 | 10-11 mm Trocar and cannula | 02 | | 03 | Grasper 10 mm toothed and non-toothed | 01 Each | | 04 | Grasper 5 mm toothed and non-toothed | 01 Each | | 05 | Dissecting forceps 5 mm straight and curved | 01 Each | | 06 | Dissecting forceps 10 mm straight and curved | 01 Each | | 07 | Medium large clip applicator | 01 | | 08 | Reducing sleeves 10-5 mm | 02 | | 09 | L-hook | 01 | | 10 | Diathermy electrode L-hook 5 mm | 02 | | 11 | Spatula electrode Ø 5 mm | 01 | | 12 | Straight scissors insulated 5 mm | 01 | | 13 | Hook scissors insulated 5 mm | 01 | | 14 | Aspiration needle 5 mm | 01 | | 15 | Needle holder 5 mm | 01 | | 16 | Suction and irrigation tube with blunt | 01 | | 17 | Bipolar Grasping Scissors Straight and Curved Jaws | 01 | | 18 | Biopsy forceps insulated 5mm | 01 | | 19 | Gallstone scoop forceps | 01 | | 20 | Endo Retractor Ø 10 mm, fan shape | 01 | | 21 | Knot pusher | 01 | | 22 | Bipolar diathermy electrode | 01 | | 23 | Monopolar and Bipolar Connection Cable | 01 Each | | 24 | Cleaning Pistol, Complete with eight adaptor Special oil for Instrument care, Cleaning brush Ø 5mm and Cleaning brush Ø 10mm | 01 | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 set |
| 84 | Laryngeal Master | Any |  | 4 |
| 85 | Operating Micro Scope for Surgery | Main Body with motorized zoom (Ratio 1:6)&motorized XY compiling, manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Objective lens f = 200mm(APAO), 15V/150W halogen coaxial illumination second lamp ready to use. Floor stand. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 86 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 87 | Operation Table | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * Accessories * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   OPTIONAL  Orthopedic Attachment should be quoted separately | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 88 | Pnoco metic Turnigent | Any | Any | 2 |
| 89 | Pulse Oximeter | Any | Any | 4 |
| 90 | Resuscitation Trolley (Baby) | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flowmeter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 91 | Photodynamic Tumor Therapy Laser Therapy | Photodynamic Tumor Therapy Laser Therapy System to be used for, Lymph metastases, Breast cancer, Lung metastases, potentially all kinds of inner tumors, depending on size and location  The unit should be capable for, Selective targeting of tumor cells, Minimal side effects, No resistance after repeated treatments, Tumor vascular shutdown by thrombosis and haemorrhages, Induction of local inflammation, Immune activation through IV blood irradiation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 92 | Trachial dilator Buges Set | Any | Any | 1 |
| 93 | TURP Set | Telescope, Inner sheet, working element | Any | 1 set |
| 94 | Ventilator MP3 | Any | Any | 2 |
| 95 | Bed Side Locker | 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.  Local / Imported best quality iron made | Imported or Local Export Quality | 30 |
| 96 | Beds with Mattress | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  Mattress (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  Bed Side Cabinet (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  Over Bed Table (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: Complete Package from same manufacturer | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 30 |
| 97 | Examination Couch | Frame work made of Round 32mm 16SWG M.S Tube. Back rest section adjustable on ratchet / lever up to at least 45 degrees. Legs fitted with PVC stumps. Cushion 5 cm foam (life time Guarantee) covered with "A" class rexene / leatherette. Epoxy Powder Coated Finish | Imported or Local Export Quality | 4 |
| 98 | Heater | Electric Heater with Oscillation and Fan, CE certified | Any | 2 |
| 99 | Incubator | Microprocessor controlled unit with digital display of set Incubator hood Double wall door at front and back  Bed surface 62x 35cm with mattress tiltable head and foot end.  Integrated X-Ray tray to accommodate X-Ray cassettes from outside without moving the baby  5 Elbow hand port one iris diaphragm and access holes.  Noise Level inside the hood 47dbA  X-Tray compatible hood/ Mattress with tray  Temperature regulation  Air temperature setting range: 20-37°C override 39° C  Skin Temperature setting range: 24-37.5°C override 39°C  Display resolution 0.1 0C  Humidity regulation  Alarm Safety signals  Visual and audible battery buffered/ powered alarm for skin and air control temperature deviation, over temperature skin. Over temperature air control, Humidity control, Fan failure  Cabinet base/ Drawer unit  Lockable antistatic casters.  Weighing Scale  Accessories  Air sensor  Skin Sensor  Humidity sensor  Replaceable bacteria filter  Mattress with cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 100 | Phototherapy unit | Blue light tube: 6 x 18W  Blue light wavelength, mounted in a canopy  Special output: Therapeutic range at wavelength range 420-480nm.  UVA level (315 nm – 400 nm) <1,000 W/cm²  UVB level (280 nm – 315 nm) <1,000 W/cm²  Steel body frame adjustable stand in height angle tilt  Height adjustment from 1400 m to 1600 mm.  Dual timing system keeps track of both patient exposure time and bulb life  Free standing unit based on 4 -wheel roller-stand, 2 lockable castors  Power supply: 220 – 240 V ac, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 5 |
| 101 | Pulse Oximetery with neonate probe | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | ManufacturerKorea/Taiwan/China | 1 |
| 102 | Resuscitator Trolley | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flow meter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 103 | Electric Stimulator | Unit to be well designed with an easy to read control panel. All parameters to be displayed clearly in digital form to eliminate risk. To have a built in micro processor to monitor and control all functions, to carry out a self test programme each time the unit is switched on. Unit to offer low frequency electrotherapy and 9 types of current for various treatments. These currents to be: Galvanic surge, Rectangular pulsed, 2-5 current according to Trabert Triangular pulsed current MF - Monophase fixe DF - Diphase fixe LP - Longues Periodes CP - Cpourtes Periodes CP-id CP isodynamique Facilities to include continually adjustable pulse duration, faradic surge and timer with automatic switch off and alarm. | ManufacturerKorea/Taiwan/China | 1 |
| 104 | SW Diathermy | The unit to be mobile with two detachable jointed electrode arms. · To have continuous and pulsed short wave with high peak power. · To have a patient safety cord which automatically switches off the machine and an audible timer alarm which also turns off the machine. · The following frequencies to be available: at 65 microseconds pulse width of 15, 25, 50, 100, 300, 400, 500 and 600 Hz and at 400 microseconds pulse width of 15, 25, 50, 100 and 200 Hz. To be supplied with standard accessories: · 2 electrode connection cables, · 2 electrode cable clamps, · 2 condenser electrodes 85 cms diameter, · 2 flexible rubber electrodes 26 x 25 cms with felt spacers and straps · Neon testing tube. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 105 | T.E.N.S. | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 106 | Ultrasonic | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 107 | Printer Laser for CT SCAN Films | DICOM LASER printer with throughput of 45 sheets of 14x17/hr. Minimum 325 dpi resolution. Should be equipped with built-in densitometer to automatically maintain film-to-film consistency 12 bit Grey scale gradation  FDA and CE approval. | Manufacturer USA/Europe/  Japan | 1 |
| 108 | Computed Radiography System | DICOM compliant floor-mount single slot digitizer for scanning 69 IPs of 14x17 size/hour.Functionality to read 35x35cm and 35x43cm IPs with pixel pitch smaller than 100 microns. CR workstation with latest image acquisition and enhancement software for GenRad and Mammography.16 bits for image acquisition and 12 bits for the post processed images.The CR system and Mammography software must have FDA approval.CR cassettes must have Rigid phosphor imaging plates Two sets of CR cassettes with standard powder-based phosphor Rigid IPs for each size of 8x10”, 10x12”, 14x14”, 14x17” and 18x24cm and 24x30cm for Mammography.The CR system must be needle-ready having compatibility with structured needle phosphor technology for Mammography.DRYVIEW 5950 DICOM LASER printer with two online sizes having throughput 70 sheets of 14x17/hr.Minimum 508 dpi printing resolution for all film formats. Two online sizes.Should be equipped with built-in densitometer to automatically maintain film-to-film consistencyGrey scale gradation 12 bit and above.FDA and CE approval.(Please provide Vis-a-Vis specifications reference/details on attached product | Manufacturer USA/Europe/  Japan | 1 |
| 109 | Lead Glasses | 26 X 18", 25 X 21", 12 X 6" | Any | 1 |
| 110 | Magnetic Resonance Imaging (MRI) Machine | MAGNET  Actively Shielded  Superconductoring Zero Boil Off 1.5 T  Aperture (bore) of 60 cm or more  Magnet Length with covers 195 cm or less  Homogeneity - 0.6 ppm or less at 40cm FOV  Helium Capacity - 2000 liters or more  Minimum Amplitude : 33 mT/M or higher  Minimum Slew Rate : 120 T/m/s or higher  Duty Cycle - 100%  Acquisition matrix in both 2D & 3D should be 1K x 1K in all sequences  RF AMPLIFIER / RECEIVER  Number of Receive Channels : 16 or more dedicated receiver Channels  Output Peak Power : 10 kW or more.  Receiver Bandwidth per channel - 1 MHz per each receiver channel or better  ACQUISITION PARAMETERS  Slice Thickness 2 DFT - 0.5 mm or better  Slice Thickness 3 DFT - 0.1 mm or better  Parallel imaging capability - ipat/asset/sense/excite/speeder  PATIENT ENVIRONMENT  Tunnel Length - 60 cm or less  Maximum Patient weight - 150 Kg or more  Minimum Table Height - 60 cm or less  Scan Range - At least 200 cm or more coverage from head to toe  Table top vertical travel - Motorized vertical travel  Rerun-to-scan plane function  Halogen/laser light beams  Acoustic Noise Reduction system (ART, Headset, Softone Software)  ACCESSORIES FOR PATIENT COMFORT  Soft mattress with Head Rest  Set of soft immobilization straps  Two way intercom system for patient communication  Coils  System should offer easy selection of elements for best SNR for the given FOV. All 8 or 16 Ch coils should support parallel imaging  BODY COIL (Integrated to Magnet)  Whole Body : Gantry integrated whole body imaging coil  One high quality 16 element quadrature/ Circular polarized (CP) body coil. Posterior receive coil with large left right imaging coverage of at least 60 cm or higher  HEAD SPINE COIL/ IMAGING OR COMBINATION OF COILS  Head / Brain imaging : 8 elements or more  Neuro Vascular imaging: up to 16 elements or more  Posterior Spine : 12 Elements or more  TORSO OR ANTERIOR COIL  8 Element torso coil combinable with posterior coil for body imaging or more  FLEXIBLE COILS TO IMAGE JOINTS/ FOOT/ KNEE/ ANKLE  One small, medium and large sized 4 element coils or more  BREAST IMAGING  Dedicated breast coil : 8 Channel or more  PERIPHERAL VASCULAR COIL/IMAGING:  "Anterior torso coil should be combined with posterior and flex coils for peripheral imaging.  If not then quote dedicated peripheral vascular coil."  COMPUTER SYSTEM / OPERATOR CONSOLE  Fast and Powerful computer, 64 bit  16 GB RAM or more  Intel Quad Core Processor > 2.5 GHz or more processors  DVD R/RW  DVD archival for storing DICOM images  800GB or greater hard disk for image storage capacity of minimum 250,000 uncompressed images at 256x256 matrixes  Display Monitor : 19" or more LCD/TFT monitor (flicker free & High Resolution)  Mouse, Alphanumeric Keyboard  RECONSTRUCTION CONSOLE  Main Processor Reconstruction engine Dual Core and 20 GB RAM or more  Reconstruction Speed : 12,000 FFT/sec or better  SYSTEM CAPABLE OF PERFORMING FOLLOWING IMAGING AS STANDARD  ECG Gating  VCG Gating  Cardiac Gating  Respiratory gating  Neurology Applications  Angiography Applications  Cardiac Applications  Abdomen / Body Applications  Oncology Applications  Breast Applications  Orthopedic Applications  Pediatric Applications  Parallel Imaging package for performing complete range of applications  APPLICATION SOFTWARE  The system should have basic sequences package with Spin Echo, Inversion Recovery, Fast Spin Echo and Gradient Echo  Fast inversion recovery, FLAIR, STIR/TURBO, STIR & EPI  Fat suppression technique  Multiecho T2 measurement and mapping  T2\* Perfusion Imaging to enable large anatomy coverage of the brain and in line calculation of the resulting hemodynamic as well as physiological parameters. The perfusion analysis should have capability to calculate color display of rMTT, rCBV, rCBF, corrected CBV, permeability constant and volume leakage  Parallel-Imaging Acceleration techniques for reducing scan time.  Time Of Flight 2D & 3D  Fat Suppression (In Brain, Body, Extremities)  Breast Spectroscopy  Breast Imaging software with latest imaging techniques  Elliptical scanning reduces scan time for 3D imaging  BOLD IMAGING fMRI (Functional MRI)  Dark-blood inversion recovery technique that suppresses blood signal  Arterial Spin Labeling for High quality brain perfusion information without contrat media injection.  T1 perfusion post processing like wash in and wash out curves, TTP should be offered standard  The system should be offered with Fast Gradient Echo based technique for performing enhanced dynamic contrast application with good spatial (isotropic) and temporal resolution especially for liver and colonography exams  Contrast and non-contrast enhanced MRA  Echo planar imaging (single and multi shot)  Diffusion imaging with ADC maps.  Diffusion Tensor Imaging - 35 Directions or more  Enhancements of peripheral vascular run offs  Real-time respiratory navigator to synchronize data acquisition to the respiratory cycle of the patient. Option include: gating, tracking, gating & tracking, triggering, position over multiple breadth hold sequences. Designed for all Body applications, including diffusion and DWIBS.  High resolution diffusion / DWIBS should enable single or multi-station high resolution diffusion weighted imaging with background suppression. Patient and physiological motion is controlled by navigator-based motion correction  The system should have facility for quantification of the CSF flow or Blood flow data on the main console and / or the workstation  MPR and Multi Planar Reconstructions. High resolution studies for joints & inner ear examinations  ECG Gating, Respiratory Gating, VCG Gating and blood suppression.  Spectroscopy (single and multi voxel)  DIXON Imaging Technique  Fast protocols for uncoperative patients  Motion correction in all directions  Software for MRCP  MRI Dedicated WORKSTATION from Manufacturer  Fast and Powerful computer, 64 bit  16 GB RAM  Intel Quad Core or better > 2.5 GHz or more processors  DVD R/RW  DVD archival for storing DICOM images  800GB or greater hard disk for image storage capacity of minimum 250,000 uncompressed images at 256x256 matrixes  24" or above High Resolution LCD monitor  Mouse, Alphanumeric Keyboard  3D Volume rendering, MIP, VIP, minIP, Surface MIP  Comprehensive DICOM Printing  DICOM 3.0 & IHE compliance  RF CAGE  Full imported Copper RF Cage with interiors. (Country of Origin USA/ EU/ Japan). Its price should be included in main quote  Accessories  UPS for complete system (at least 120KVA for the whole system)  Suitable Chiller (Imported) for cryo-cooler  MRI Compatible Wheel chair  MRI Compatible injector  MRI Patient Monitoring Camera  Hand Held Metal detector  QUALITY ASSURANCE  FDA/ CE Approved  Country of Manufacture : USA, EU or Japan  Warranty/MAINTENANCE  1 Years Warranty  Training  8+4 Days MRI Training at Site (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 111 | Mammography Machine Digital | High FREQUENCY X-RAY GENERATOR: 5 KW.23 - 35 KV (1 KV STEPS) ,better will be preferred. mAs range 5 ~ 500 mAs. Exposure Time 4 — 6 sec.Exposure Mode: Manual & Automatic (AEC). Automatic Exposure mode should have automatic selection of Track, filter, kV and mAs. C-ARM WITH source to detector distance 65 cm or more. Motorized lsocentrlc rotation. User defined Motorized compression device with safety release, Rotation 160~ 180° X-RAY TUBE WITH ROTATING ANODE Tube type should be rotating with dual material anode preferred material would be Molybdenum / Rhodium / Vanadium / Tungsten. Four focal spot 0.1 & 0.3 and dual focus in each track., Anode heat storage capacity 300 kHU better will be preferred, System should have separate monitoring software for tube overload protection. Collimation Manual & Automatic., Automatically switching light centering device, Collimators should have at least two filters Molybdenum 0.03mm or better, and Rhodium 0.025mm. Direct /Indirect Conversion FULL FIELD FLAT PANEL DETECTOR 24 X 30 CM FORMAT. Depth 14-BIT or more. PIXEL Pitch: 100 X 100 µM and Resolution: 3062 X 2394 PIXELS or better. DQE: 60 % or more REMOVABLE GRID (RATIO 5:1, 30 LP/MM or better) Should have motorized Grid, Should have Breast support for Geometric Magnification. ACQUISITION WORKSTATION: Intel /AMD Dual Core HP or Equivalent brand from original Manufacturer workstation, Memory should be 2 GB RAM or better Should be able to store up to 25,000 images or more, 1 MP LCD Monitor Medical Grader or better, Compression force display Rotation Angle Display, Breast Thickness display with Thickness Compensation Algorithm. Processing Features should include: Dose Calculation information /AGD (Average Glandular Dose), Zoom & Pan, Magnifying glass, Flip, rotation of image. Inversion Measurement and Annotation Tools. Should have online / built-in UPS for avoiding loss of information (Recommended built in UPS. From original Manufacturer for system safety and reliability). Emergency Stop button STANDARD ACCESSORIES: 24 X 30 Cm compression paddles. 19 X 23 Cm sliding compression paddle, 24 X 30 Cm flexible sliding compression paddle 19 X 23 Cm flexible si sliding compression paddle, wall mount stand for paddles & stereo device. Grid less device for geometric  Variable magnification 1.5X AND 2X., two pairs of compression foot/paddle, X-RAY control push-button with extensible cable. X-ray shield from original manufacturer integrated with acquisition console for protection, Laser printer capable of printing of 10 X 12 and 14 x 17 FILMS with two packets of films for testing purpose, two set of special illuminators for viewing the mammograms. UPS to run the whole system with minimum 20 min backup. Standard manuals, Calibration equipment and quality control devices should be part of system. Lead Apron, female and Male should be provided, 2 magnifying glass/ hand mirrors for viewing Renovation of the machine area/room and patient waiting area responsibility of vendor , including ﬁre extinguisher equipment , air conditioning , protection of operator by lead stand  With lead glass. Local Training of Two Radiographers, Application specialist visit on site -at least two visits in first year of installation. The System should consist of latest software's and should have provision of upgradability to Advance Applications. Quality Assurance: FDA / CE Approved SYSTEM UPGRADABILITY: The system should be upgradeable to Advance applications 30 TOMOSYNTHESlS. (Provide Separate Upgrade Price)" The system should also be able in upgradable to Dual Energy Spectral Mammography. (Provide Separate Upgrade Price)" The system should also be upgradable to Stereotaxy Mammography. (Provide Separate Upgrade Price) The system should also be available with Workstation with Computer Aided Detection capability from Original Manufacturer of offered Mammography. (Provide Separate Price) Foreign training of two Teaching Staff of Radiology Department by Manufacturer. (Provide Separate Price)  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 112 | Blood Cell Separator | Multi Component BloodApheresis System) Mobile / Portable.  Aphaeresis options to collect Platelets, Red Blood Cells, Plasma & Stem Cells  a. Leukodepleted platelets in a fully automated procedure  b. Ease of use & flexibility  c. Data acquisition capability  d. Up Grade able Software  e. Portable Aphaeresis System  f. Only 26 kg weight  g. Single Access  Protocols  Blood Component Collection  Leukodepleted Platelets & Plasma  Fresh Frozen Plasma  Leukodepleted Platelets & Red Blood Cells  5Red Blood Cells & Plasma  Therapeutic Collection  Peripheral Blood Stem Cells  Therapeutic Plasma Exchange  Bone Marrow Concentrate  Autologous Pre-Operative Collection  1Plasma Erythrocyte Saver  (2 Buffy coat depleted RBC units + 2 FFP units)  2. Autologous Erythro-apheresis  (3 Buffy coat depleted RBC units) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 113 | PACS | Picture Archiving and Communication System (PACS) integrates with the following IT systems: •PAS (Patient Administration System) for demographics, current location, current responsible consultant/General Physician •RIS (Radiology Information System) for scheduling information & report information •Modalities—receives images & image related information Demographics & ADT Information consistency—All demographics & ADT (Admission Discharge & Transfer information) must be kept up-to-date on all clinical IT systems. Any demographics update or patient merges on PAS must real-time update PACS systems. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 114 | Ultrasound Digital Machine | Main unit Trolley Mounted System with B mode (2 D), Color flow mapping, M mode, PW/CW Doppler, Doppler Audio, PW/CW must be continuously steerable(optional) , Power Doppler Imaging (PDI) Tissue harmonics, Compound imaging, Trapezoid imaging, Panoramic imaging with processing channels of more than 190,000. 2 Active Probes Connectors and one optional  Optional Parking Probe Connector. Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, Pediatrics and, Cardiac and At least 8 Recording keys available on keyboard. Cine Memory of 128MB, Internal Hard disk Drive upto 500GB, Frame Rate: 300 fps or more Machine must have options of Trapezoidal Imaging, Needle Visualization Software, Speckle Reduction Filter for improve the grainy images, Free Hand 3D, Quick Gain/ Auto Optimization, Tissue Velocity Imaging (optional) Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD, Post Processing of 2D, Color and PW with complete features like Dynamic range, Auto optimization. Spatial Compounding imaging should be compatible with the color flow mode, Pulse wave Doppler, Speckle reduction and available on Convex, Linear and Endocavity Probe. Must have Report writing format for different Applications. Tools to measure the intima media thickness, fetal biometry measurements (FL, BPD, HC, AC) and the breast lesions automatically. Built in training tool to guide the end user to do any procedure (to include images and videos). Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging. Zoom: Read and write Zoom compulsory Cine Memory: 700 or more Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  Probes: Convex Probe:2-5MHz Applications: Abdomen, OB/Gyn, Vascular, Urology. Endocavity Probe:-10MHz Applications: OBS/Gyn, Urological/ Transvaginal and Transrectal. Accessories: 2KVA UPS and B/W Thermal Printer Optional Probes: Linear Probe: 4-12MHz Applications: Vascular, Small Parts and Pediatrics Phased Array Probe: 4-12MHz Applications: cardiac, Transcranial. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 115 | UPS | On Line | Any | 1 |
| 116 | X-Ray Films Processor heavy Duty. | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 117 | Band Ligator | Any | Any | 4 |
| 118 | Examination couches | Frame work made of Round 32mm 16SWG M.S Tube. Back rest section adjustable on ratchet / lever up to at least 45 degrees. Legs fitted with PVC stumps. Cushion 5 cm foam (life time Guarantee) covered with "A" class rexene / leatherette. Epoxy Powder Coated Finish | Imported or Best Local Export Quality | 3 |
| 119 | Light Source | LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 3 |
| 120 | Proctoscope All Size | Any | Local Best Quality | 10 |
| 121 | Printer Laser for CT Scan Films | DICOM LASER printer with throughput 45 sheets of 14x17/hr. Minimum 325 dpi resolution. Should be equipped with built-in densitometer to automatically maintain film-to-film consistency Grey scale gradation 12 bit and above.FDA/CE Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 122 | UPS | Any | Any | 1 |
| 123 | X - Ray Films Processor | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufactureUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 124 | Vessel Sealing System | The energy Platform should deliver both enhanced Monopolar & Bipolar energy with the next generation of vessel sealing in one unit.  The system includes 02 independent Monopolar outputs,  01 separate Monopolar foot-switching port.  01 bipolar port auto-bipolar and  01 vessel sealing port with foot-switching or hand switching option.  Available with MF socket  All-in-one unit compatible with conventional electrosurgical instruments and all current and new vessel sealing instruments..  Automatic instrument recognition.  Enhanced vessel sealing permanently fuses vessels up to and including 7 mm, lymphatics, tissue bundles, and pulmonary vasculature.  Safety and diagnostic functionality includes automatic fail safe function auto stop on completion of sealing  Technical Specifications:  Modes:  Monopolar cutting (Pure, Blend, Auto, High)  Monopolar coagulation (Fulgurate, Spray, Forced, Soft)  Bipolar (Precise, Standard, Macro, Soft)  Low pressure for Laparoscopy (0.5 – 4 LPM or less) (With Peritoneal Pressure Monitoring)  Maximum Pressure or Open surgery (0.5 – 6 LPM)  Output Characteristics  Vessel Sealing:300 W  Monopolar Cutting:  Pure: 350 W  Blend:200 W  Monopolar Coagulation  Fulgurate 120 W  Spray 120 W  Bipolar  Bipolar Low and Standard 100 W  Bipolar Macro / Cutting:100 W  Input Power  220– 240 VAC, 48-65 Hz  Safety Standard:  Class I Equipment (IEC 60601-1)  Type CF Equipment (IEC 60601-1) Defibrillator Proof  Liquid Spillage (IEC 60601-2-2)  Electromagnetic Compatibility (IEC 60601-1-2 and IEC 60601-2-2)  Standard Accessories:-  Vessel Sealing Energy Platform: 01 each  Standard Bipolar Footswitch 01 each  Power Cord 01 each  User manual 01 each  Original Cart for complete system 01 each   |  | | --- | | (REUSABLE AND DISPOSABLE ACCESSORIES) |   BiCision L L 450mm; OD 5mm 1 SA (Box) = 5 ST (Piece)  BiClamp E LAP forceps Maryland semi-deep; L 340mm; OD 5mm  BiClamp E LAP forceps Maryland smooth; L 340mm; OD 5mm  BiClamp E LAP forceps; Kelly semi-deep; shaft ø5mm; L 340mm  BiClamp curved 18°; L 200mm  BiCision L 200mm; OD 5mm1 SA (Box) = 5 ST (Piece)  BiClamp curved 23°; smooth; L 150mm  BiClamp bent 25°; wavy; L 210 mm  ESU pencil, disposable with rocker switch 1 SA (Box) = 10 ST (Piece)  Cleaning pad for electrodes sterile, single use 1 SA (Box) = 100 ST (Piece)  NESSY Omega Plate (85+23)cm² , without cable 1 SA (Box) = 50 ST (Piece)  Patient plate cable NE 2 socket+PIN; conn. clip;4m  Bipolar forceps Premium straight; 20cm; blunt 1.0mm  Monopolar forceps; straight 20cm; blunt 1.7mm;corrugated  Monopolar cable MO 3 Pin; forceps; 4.5 m  Prefilter for use with smoke evacuators 1 SA (Box) = 15 ST (Piece)  Clip-on handle for smoke evacuators 1 SA (Box) = 25 ST (Piece)  Fastening set IES 2 to VIO-CART  Adapter bipolar resection  Bipolar cable; TUR/TCR; Wolf MF plug; L 4m | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
|  | FOR LANDHI HOSPITAL |  |  |  |
| 125 | A / B Scan Biometry | PC based Modular system with A scan, B scan facility, 13 MHz A-Scan probe, ACD, AL, LT , VL, Pre defined velocity for different eyes, Large number of data base for selection of Intra ocular lens, At least 6 IOLs formulae, 10 MHz B-Scan probe. Scanning angle 35 or 50 Degree, 43 to 50 mm scan depth, With movie facility, dual screen live screen with calipers measurements, Complete with compatible Laptop & B –n W Printer. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 126 | Operating Microscope | Main Body with motorized zoom (Ratio 1:6)&motorized XY compiling, manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Objective lens f = 200mm(APAO), 15V/150W halogen coaxial illumination second lamp ready to use. Floor stand. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 127 | Phacoemulsification Machine | Peristaltic Pump with ICE & CASE technology, Light weight Titanium Hand Piece: Front Digital Display, Audio Speaker, more than 10 surgeon settings, Reusable tubing to reduce day to day expenses, Electrically driven Oscillating vitrectomy cutter with 600 cut rats, Pulse modulation, Programmable foot Pedal, Original instrument cart with motorized IV pole facility, Upgradable system. Quote up gradation as option. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 128 | YAG Laser | Yag laser with Capsulotomy and Irridectomy lenses. Wavelength 1064nm, pulse width <4ns, Display screen attached in the arm of slit lamp. 5 steps magnification built-in slit lamp. Original motorized instrument stand. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 129 | Immuno Diagnostic System with Intellicheck Technology | System as well as Kit Should be approval for blood screening is mandatory, system should have intellicheck technology, Detection Technology: must be Enhanced. Chemilumisence: Should have minimum 28 days FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 130 | BMC Grafting Set | Any | Any | 1 |
| 131 | Instruments for Spinal Surgery | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 132 | Traction Table for the use of image intensifier | Any | Any | 1 |
| 133 | Auto processor Heavy Load | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 134 | C.T. Scan Machine | GANTRY Gantry bore to be at least 70cm Minimum gantry rotation speed to be not less than 0.5 sec, for 16 slices per 360 degree rotation or better Minimum gantry tilt +/-25 degree, Minimum field of view to be 50cm or better, Multiple slice thickness selectable option TUBE:- Anode Heat Storage capacity of at least 5.0MHU or more, Anode Heat Dissipation of not less than 800 KHU/min Generator output of at least 300mA, Automatic mA control (AEC/mA modulation) software DETECTOR :- Should be ultra-fast solid state/ ceramic detector, compatible with multi slice CT scanner. GENERATOR. High frequency type. Minimum power not less than 48kW, without iterative dose calculation. "Iterative Dose reduction software and associate hardware to be provided as standard." Calculate patient dose in milli-Gray preferably before axial acquisition. Mention Low contrast delectability (LCD) calculated on a catphan CT phantom of 5 mm resolution with a CT Number of 3 HU (0.3%) contrast difference. Scan length of at least 1.45 meters of all helical and spiral scans in a single acquisition. TABLE:- Single acquisition scan range of at least 1.45 m. "Scans with at least +/- 0.25 mm accuracy on 180 Kg patients." CONSOLE COMPUTER System architecture and operating system based on latest generation. Multi-tasking and parallel processing CPU system, minimum Dual Xeon processor or RISC. "Factory inbuilt storage space of not less than 5OOGB" "Capable of storing at least 250000 raw data images in 512x512 matrixes." Reconstruction rate at 15 images/frames per second or better at 512x512 matrixes. "Medical grade Console color TFT Monitor 19"". ", CD /DVD RW. SOFTWARES: Full color volume rendering 3D at console, CT angiography at console, with all standard licensed software’s 3D surface rendering at console, Virtual endoscopy/ colonoscopy / bronchoscope at console. Any other software offered as standard by manufacturer. POWER REQUIREMENT Three phase with line voltage of 220 V 50Hz ACCESSORIES Online sine wave UPS for whole system with a minimum backup of 10 minutes on full load Single head programmable Power injector with flow/volume and temperature control, mounted on mobile base with 100 syringes of 150 ml capacity and connecting tubes, Standard set of phantoms for calibration of CT Connectivity with the local HMIS/RIS/PACS with MWL fetch from RIS system Documentation  Original Certificate for Country of Origin by the Manufacturer with the supply of equipment User manual in English (Three copies) Service Manual (including Maintenance / Schematics and calibration) in English (Three copies) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out. List of equipment's available for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/technical manual. CIVIL WORK Floor tiles concrete floor + at least 5cm anti-static vinyl sheets (imported),Bathroom + store room tiles (imported European/Spanish) 1x1, 1/2 Feet, Dampa ceiling with 2x2 feet ceiling light,UPVS pipes GI(IILM) with china fitting Master or Sonex fittings, Bathroom accessories (Porta or as approved by user department),Cables (Pak Cables) Cisco switches,Woodwork (deodar) where required, Shifting of discarded material.Paint adequate coating (3 coats) ICI dulex Emulsion / Enamel with proper preparation of surfaces. Furniture: aluminum shelves/ partition as required by user deptt. Desk/Chair for operator as required AC with dehumidifier (European Unit) to be clarified by vendors. Underground tunneling steel covered items. Possible visit of the vendors/ participants of the CT scan site for their suggestions. Lying of 300 meters cable electric LT600/ 1000 volts PVC insulated over all Pakistan cable standard copper conductor as per machine and A/c load unarmored laid in proper route including all work as per technical specifications IEE. Supply and fixing complete in all respect as instruction of department.  Separate Quote Should be available: Workstation from Manufacturer with Brain Perfusion, Virtual endoscopy/ colonoscopy / bronchoscopy, 3D surface rendering & other advanced software features from Manufacturer (Provide Separate Quote) Two week factory training of one biomedical engineer (Provide Separate Quote) (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
|  |  |  |  |
| 135 | Digital Radiography System (DRS) | Digital Mobile Radiography System  Mobile x-ray unit, H.F. microprocessor controlled x-ray generator.  Power 32 kW.  Rotating anode x-ray tube focus 0.8-1.3mm.  Tube anode heat capacity 107kHU.  Max values 300mA, 100kV.  22’’ Touch screen LCD console with full screen image.  System Weight: maximum 280 kg.  Portable strongly built detector.  Portable detector sustains a weight of 7.5kg.  The System is a digital mobile x-ray unit equipped with a wireless 36x43cm flat panel detector.  The System also features +180\*/-180\* rotation of the x-ray monoblock arm to facilitate exam execution in narrow spaces.  The System is 100% microprocessor controlled and equipped with a large area 22” LCD high contrast touch screen console,  The System has been designed with extensive use of light-weight alloys, thus allowing easy system mobility with minimal effort and no need for costly and heavy system motors.  The System is characterized with a “dead man” breaking system with a comfortable handle that facilitates the unit movement and positioning. The breaking system blocks the unit in any position, just releasing the handle. An automatic closedown system prevents the unit from remaining in ON mode for prolonged time.  The System is 100% DICOM compliant. Once the imaging session is completed, the entire study can be automatically sent to a PACS, a review workstation, or a DICOM printer; a large number of studies can be also maintained locally for temporary storage. And, most importantly, the intuitive Graphical User Interface makes the entire process smooth and easy. Needless to say the System DICOM layer has been thoroughly tested and will seamlessly interface with any DICOM environment.  The System is equipped standard with the image enhancement algorithm, which makes it possible to expand the latitude of a single image and see all the relevant clinical details at the same time and without time-consuming Window/Level adjustment.   |  |  | | --- | --- | | *RADIOLOGICAL CHARACTERISTICS* | | | Maximum power | 32 kW | | Inverter frequency | 40 kHz | | Max ripple | < 1% at max power | | Exposure times | 2-2200 ms | | kV range | 40-100 kV | | mAs range | 40kv - 200 mAs  50kv – 180 mAs | | Max curent | 300 mA @ 100kv | | Operating mode | Two-points | | Anatomical techniques | Over 550 ANATOMICA TECHNIQUES can be stored | | X-ray tube type | Rotating anode | | X-Ray monoblock Colum arm rotation | ± 90 deg. | | Monoblock rotation around (X-Y axis) | X ±180 deg.  Y +103 deg. / -50 deg. | | Focus height min | 2022 mm | | Maximum anode heat content | 80 kJ (107 kHU) | | Thermal monoblock | 600 kj (800KHU) | | APR | * 1000 | | Maximum continuous anode heat dissipation | 300 W (24 kHU/min) | | Internal Battery for unplugged exams executions | Standard |  |  |  | | --- | --- | | *OPERATING CHARACTERISTICS* | | | Operator interface | Rear-lit High-Contrast 1280 x 1024 22” LCD touch screen display for all the operating parameters and messages for any possible anomalous conditions | | DAP camera | Optional | | Automatic closedown | The unit is fitted with an automatic closedown system minutes of not being used. This features prevent the unit from remaining on by mistake for long periods | | X-ray push button | Manual with double click and 4m extensible cable (standard) |  |  |  |  | | --- | --- | --- | | *ACQUISITION SYSTEM* | | | |  | Flat panel detector | Wire and WIFI | | IMAGE ACQUITION & STORAGE | Acquisition resolution  Scintillator  Detector dimensions  Pixel pitch  Max. spatial resolution | 3000x2372x16 bit  Cesium lodide (Csl)  35x43 cm  139 μm  3,6lp/mm | | Max images locally archived | 28000 images (no compression)  56000 images (lossless compression) | | Automatic LUT | YES, Linear and Logarithmic | | Image Enhancement | YES, Automatic | | Anatomic Programs | YES, preconfigured and editable | | DICO 3.0 | Print SCU | YES, (Optional) | | Store SCU/SCP | YES | | Worklist Management SCU | YES | | Media Storage SCU (CD/DVD) | Optional | | MPPS SCU | YES | | Storage Commitment SCU | YES | | Verification SCU/SCP | YES | | Query/Retrieve SCU | YES |  |  |  | | --- | --- | | *MECHANICAL CHARACTERISTICS* | | | X-ray monoblock arm rotation | + 180o | | Width [cm] | 74.5 cm | | Length [cm] | 152 cm | | Height [cm] | 148 cm | | Focus height max. [cm] | 202 cm | | Handling | Dead man brake | | Weight [kg] | ~ 280 kg |  |  |  |  | | --- | --- | --- | | *ELECTRICAL DATA* | | | | Power supply voltage | Single phase, 230 Vac (240V – 110Vac optional) +/-10% | | | Frequency | 50/60 Hz | | | Maximum Absorbed Current | 16 A | | | Line impedance | 0.4 Ω | | | *ENVIRONMENT CONDITIONS* | | | | Operating temperature | | From 15o C to 35o C | | Operating humidity | | From 30% to 75% | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 136 | Portable Color Doppler Ultrasound Machine | •Portable Grey Scale machine with B mode (2 D), M mode, Color Doppler and optional CW, Tissue harmonics, Compound imaging, Trapezoid imaging, panoramic imaging with Processing channels of 90000 or More  •Color Doppler and Continuous Wave Doppler Ultrasound.  •External 2 Probe Connector (optional)  •Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, and Pediatrics  •Cine Memory of 128MB.  •Internal Hard disk Drive up to 500GB.  •Frame Rate: 300 fps or more  •Separate trolley available  •Machine must have options of Trapezoidal Imaging, Needle Visualization Software,Speckle Reduction Filter for improve the grainy images  •Quick Gain/ Auto Optimization.  •Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD  •Post processing of 2D, Color and PW with complete features like Dynamic range Auto optimization etc.  •Spatial Compounding imaging available on Convex, Linear and Endocavity Probe.  •Tools to measure the fetal biometry measurements (FL, BPD, HC,AC) and the breast lesions automatically.  •Built in training tool to guide the end user to do any procedure (to include images and videos).  •Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging.  •Zoom: Read and write Zoom compulsory  •Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  •FreeHand 3D  •Probes:  oConvex Probe:2-5MHz  oApplications: Abdomen, OB/Gyn, Vascular, Urology.  oEndocavity Probe:-10MHz  oApplications: OBS/Gyn, Urological/ Transvaginal and Transrectal.  oOptional :Linear Probe: 4-12MHz  oApplications: Vascular, Small Parts and Pediatrics  o Accessories: 2KVA UPS and B/W Thermal Printer(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 137 | Ultrasound Machine Portable | Mobile X-Ray Machine 100mA complete set with all standard accessories for its installation and commissioning:  High frequency X-Ray inverter type Generator  Having output power of 4kW or more X-Ray tube 50 KHU or more KVP range: 40-110kV or more MA Range: 25-100mA or better,  mAS range: 1.0-200mAs or better Centering light indicator  Standard power supply cable, standard x-ray exposure switch cable, Vertical movement of the arm to lower or raise the tube collimator assembly, Rotation of the Collimator with reference to the power module (+/- 90deg) or better.  Country of origin should be USA/western Europe/Japan with their respective standards MDD (CE) compliance/MHLW Japan Warranty period shall be of three years starting from date of installation / commissioning. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 138 | Ultrasound Printers | Any | Any | 2 |
| 139 | ECG Machine 12 Leads | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals. Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination. Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report.  System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 140 | Portable Mobile X-Ray Machine - 300mA | System SpecificationAt least 5 cassette holding capacityWaterproof pushbuttonsGeneratorFrequency : 40kHz or betterShould be high frequency 30 kw Generator or betterkV range : Equal or better than 40 to 120Dual Focal SpotmA : 300 mA or betterX-Ray TubeMust be dual focal spot sizes 0.8mm / 1.3mm or betterMust be rotating anode type speed must be greater than 2500 RPM @ 50Hz or betterConsoleMicroprocessor controlledkV and mA selectionAutomatic programmed mode (APR)Focal spot selectionThree years comprehensive warranty from Manufacturer including Tube should be provided Quality Assurance CertificateSystem should be CE / JIS / FDA certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 141 | Oxygen Flow meter | Any | ManufacturerKorea/Taiwan/China | 1 |
| 142 | Central Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 143 | Pressure Infusion Bag | PIB has a dual-pressure safety valve that switches between normal and over-pressure mode with a click of a button. Pressurization and deflation can be achieved with one hand. The blunt hook will not puncture the fluid bag and is secure in the event of pressure loss. The rigid hanger design slips easily over IV poles. Size: 500mL to 3000mL • Highly visible color coded gauge accurately displays bladder pressure • Large inflation bulb with smooth recoil for hand comfort • Robust and durable construction to hold constant pressure and prevent leaks • Single-patient-use to minimize the spread of nosocomial infections via touch contamination • Color-coded printing for rapid identification of size • Materials that do not contain natural rubber latex or neoprene | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |
| 144 | Laryngoscope Set Complete | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 145 | Cardiac Defibrillator | Display Screen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2. Defibrillator Waveform: Damped sinusoid or Rectilinear Biphasic. Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel. Rectilinear Biphasic energy selection up to 200 joules maximum. General Size: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep. Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles. ECG Monitoring Patient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads. Selectable by front panel switch. Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.) Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikes and provides standard display marker of spike on ECG trace. Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic. Lead Selection: Displayed on monitor. ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor. Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm. 1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input. Display Format: Non-fade moving bar display. Smart Alarms™: Beeper/voice prompts indicate shockable rhythm. Battery Packs Type: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger. Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 146 | Crash Emergency Trolley | Painted steel break-away lock bar, Pack of 100 break-away seals, 30” of vertical drawer space, Cabinet and drawer design allows for customized drawer configurations, Painted steel top rail / push handle, Removable plastic top, Full wrap-around bumper | Imported or Local Export Quality | 1 |
| 147 | Portable Suction Machine | Suction Machine  Suction Machine with two polycarbonate collection Jars of 2000ml each 4 antistatic castors, 2 with brakes.  Piston type, oil free. Pump flow: Minimum 60L/min and more. Overflow prevention.  Hydrophobic PTFE filter. 3 m PVC Suction tube. Metallic handle, Metallic curved and straight catheter. | ManufacturerKorea/Taiwan/China | 1 |
| 148 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |
| 149 | Paediatric Ventilator | Unit to offer microprocessor controlled electronic and sophisticated pneumatics to provide controlled and monitored ventilation and able to be used for neonates and infants. · Adjustment able to be made in line with minute volume, the expiratory and inspiratory flow to be separately adjustable, flow to be independent of PEEP over the whole flow range, · To have precise oxygen mixing particularly in the range of 21 to 100% vol O2. · To have real-time display of pressure and flow waveforms and loops · Screen size 6 to 8 inches · Electrically powered electrically controlled · Integrated O2 monitoring, inspiratory and expiratory pressure measurement, flow monitoring for actual aponea, disconnection monitoring, tidal volume, minute volume, leak rate, spontaneous breathing frequency and trigger function. · Control principal pressure-limited, timed-cycle · Inspiratory time 0.1 to 2s · Expiratory time 0.2 to 30s · Inspiratory flow V/Expiratory flow V 1 to 30/L/min · Inspiratory O2 concentration O2 vol % 21 to 100 vol % O2 · Tidal Volume 5 to 100ml · Rate 1 – 150 bpm · Trigger response time approx. 30 ms · Pressure / flow triggering · A/C, SIMV, Spontaneous · PEEP or CPAP 0 to 15 mbar · Power consumption approx. 140 W · Gas supply operating pressure O2/Air 3 bar - 10% to 6 bar + 10% · Test Lung OPTIONAL Air Compressor  FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 150 | UPS with complete Accessories | Any | Any | 1 |
| 151 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And  3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds.  FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 152 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |
| 153 | Syringe Pump | Graphic LCD monochrome display, size 66 mm x 33 mm  0.1 to 200 ml per hour flow rate range  Syringe capacities 5, 10, 20, 30, and 50 cc. with ± accuracy.  Rechargeable Battery with capacity of 8-10 hours  Power 100-240 Vac / 15 VA.  All alarms expressed by means of light indicators, written words, pictograms and sound beep.  Infusion mode in volume/time, volume limit 0.1 to 999.99 ml with 0.1 ml increments.  3 modes priming. Manual bolus rate 50-1200 ml/hour (50 ml/hour increments)  KVO 1 and KVO 2 from 0.1 to 5 ml/hr. adjustable and storable, continuous infusion or stop.  PAUS: Programmable from 1 minute to 24 hours, increments from minute to minute.  1500 data log events in real time.  Drug list of 50 agents adjustable with Vigilant.  Syringe barrel clasp check, plunger head detection, anti siphon system check, flange detection.  Clamp for fixation to a rail or to pole for unit.  OPTIONAL  Four syringe pump docking station.  Rolling Stand Base with 5 Rollers  Power Fix for 4 syringe pumps  Main Power Cable | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 3 |
| 154 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampoules) Quality control kit – level 2 (30 ampoules) Quality control kit – level 3 (30 ampoules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 155 | Ventilator | Display: Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation: Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup: Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |
| 156 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. | Imported or Local Export Quality | 4 |
| 157 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |
| 158 | Foot Step | Size : Single Step 410x275x210 mm. Epoxy Coated Framework Top: Non-slip Rubber Coated made of MS/SS | Imported or Local Export Quality | 4 |
| 159 | Comod Chair | Any | Imported or Local Export Quality | 1 |
| 160 | Emergency Light | Any | Imported or Local Export Quality | 1 |
| 161 | Blood Cell Separator | Multi Component BloodApheresis System) Mobile / Portable.  Aphaeresis options to collect Platelets, Red Blood Cells, Plasma & Stem Cells  a. Leukodepleted platelets in a fully automated procedure  b. Ease of use & flexibility  c. Data acquisition capability  d. Up Grade able Software  e. Portable Aphaeresis System  f. Only 26 kg weight  g. Single Access  Protocols  Blood Component Collection  Leukodepleted Platelets & Plasma  Fresh Frozen Plasma  Leukodepleted Platelets & Red Blood Cells  5Red Blood Cells & Plasma  Therapeutic Collection  Peripheral Blood Stem Cells  Therapeutic Plasma Exchange  Bone Marrow Concentrate  Autologous Pre-Operative Collection  1Plasma Erythrocyte Saver  (2 Buffy coat depleted RBC units + 2 FFP units)  2. Autologous Erythro-apheresis  (3 Buffy coat depleted RBC units) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 162 | Vessel Sealing System | The energy Platform should deliver both enhanced Monopolar & Bipolar energy with the next generation of vessel sealing in one unit.  The system includes 02 independent Monopolar outputs,  01 separate Monopolar foot-switching port.  01 bipolar port auto-bipolar and  01 vessel sealing port with foot-switching or hand switching option.  Available with MF socket  All-in-one unit compatible with conventional electrosurgical instruments and all current and new vessel sealing instruments..  Automatic instrument recognition.  Enhanced vessel sealing permanently fuses vessels up to and including 7 mm, lymphatics, tissue bundles, and pulmonary vasculature.  Safety and diagnostic functionality includes automatic fail safe function auto stop on completion of sealing  Technical Specifications:  Modes:  Monopolar cutting (Pure, Blend, Auto, High)  Monopolar coagulation (Fulgurate, Spray, Forced, Soft)  Bipolar (Precise, Standard, Macro, Soft)  Low pressure for Laparoscopy (0.5 – 4 LPM or less) (With Peritoneal Pressure Monitoring)  Maximum Pressure or Open surgery (0.5 – 6 LPM)  Output Characteristics  Vessel Sealing:300 W  Monopolar Cutting:  Pure: 350 W  Blend:200 W  Monopolar Coagulation  Fulgurate 120 W  Spray 120 W  Bipolar  Bipolar Low and Standard 100 W  Bipolar Macro / Cutting:100 W  Input Power  220– 240 VAC, 48-65 Hz  Safety Standard:  Class I Equipment (IEC 60601-1)  Type CF Equipment (IEC 60601-1) Defibrillator Proof  Liquid Spillage (IEC 60601-2-2)  Electromagnetic Compatibility (IEC 60601-1-2 and IEC 60601-2-2)  Standard Accessories:-  Vessel Sealing Energy Platform: 01 each  Standard Bipolar Footswitch 01 each  Power Cord 01 each  User manual 01 each  Original Cart for complete system 01 each   |  | | --- | | (REUSABLE AND DISPOSABLE ACCESSORIES) |   BiCision L L 450mm; OD 5mm 1 SA (Box) = 5 ST (Piece)  BiClamp E LAP forceps Maryland semi-deep; L 340mm; OD 5mm  BiClamp E LAP forceps Maryland smooth; L 340mm; OD 5mm  BiClamp E LAP forceps; Kelly semi-deep; shaft ø5mm; L 340mm  BiClamp curved 18°; L 200mm  BiCision L 200mm; OD 5mm1 SA (Box) = 5 ST (Piece)  BiClamp curved 23°; smooth; L 150mm  BiClamp bent 25°; wavy; L 210 mm  ESU pencil, disposable with rocker switch 1 SA (Box) = 10 ST (Piece)  Cleaning pad for electrodes sterile, single use 1 SA (Box) = 100 ST (Piece)  NESSY Omega Plate (85+23)cm² , without cable 1 SA (Box) = 50 ST (Piece)  Patient plate cable NE 2 socket+PIN; conn. clip;4m  Bipolar forceps Premium straight; 20cm; blunt 1.0mm  Monopolar forceps; straight 20cm; blunt 1.7mm;corrugated  Monopolar cable MO 3 Pin; forceps; 4.5 m  Prefilter for use with smoke evacuators 1 SA (Box) = 15 ST (Piece)  Clip-on handle for smoke evacuators 1 SA (Box) = 25 ST (Piece)  Fastening set IES 2 to VIO-CART  Adapter bipolar resection  Bipolar cable; TUR/TCR; Wolf MF plug; L 4m | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 163 | Photodynamic Tumor Therapy Laser Therapy | Photodynamic Tumor Therapy Laser Therapy System to be used for, Lymph metastases, Breast cancer, Lung metastases, potentially all kinds of inner tumors, depending on size and location  The unit should be capable for, Selective targeting of tumor cells, Minimal side effects, No resistance after repeated treatments, Tumor vascular shutdown by thrombosis and haemorrhages, Induction of local inflammation, Immune activation through IV blood irradiation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |
| 164 | Hospital UV Disinfection System | The system should comply with NFPA 99 and EPA standards Establish No: 89568-IN-001/89568-IL-001  The system should be free from by-products i.e. Ozone or secondary decontaminant so that the OTs or ICU can be occupied immediate after the use.  The system should be mounted on UV- energy resistant base and also should have large diameter castors for easy mobilization.  The unit should have double protective covers for lamps as door barrier for safe exit or entrance of the unit.  They system must have wireless remote control system that allow the user to monitor the status of disinfection cycle without entering the room.  The life of the lamps should not be less than 12000 hours.  The unit should be equipped with a 360° motion and heat sensor not intended for use as primary safety device system.  The unit should have an emergency stop system on the base to provide a quick and safe way to shut off the UV lights.  The system should have at least four pre-programmed UVC cycles- (Bacteria/Virus at distance 2.5 to 4.5 meter should take 4 to 9 minutes per cycle time and Bacteria spores at distance 2.5 to 4.5 meter should take 11 to 25 minutes per cycle time)  **Technical Data**  Internal fuse rating 20 Amp  Power cable length at least 4.5 meters or better  Lamp type: GML 515  Lamp quantity: Minimum 24  The length of each lamp: at least 40” or better  Controller rechargeable battery life: 8 hours | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **FOR KOTRI HOSPITAL** |  |  |  |
| 165 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals.Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. Auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination.Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report. System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing.  FDA/CE Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 166 | Portable Mobile X-Ray Machine - 300mA | System Specification At least 5 cassette holding capacity Waterproof pushbuttons Generator Frequency : 40kHz or better Should be high frequency 30 kw Generator or better kV range : Equal or better than 40 to 120 Dual Focal Spot mA : 300 mA or better X-Ray Tube Must be dual focal spot sizes 0.8mm / 1.3mm or better Must be rotating anode type speed must be greater than 2500 RPM @ 50Hz or better Console Microprocessor controlled kV and mA selection Automatic programmed mode (APR) Focal spot selection Three years comprehensive warranty from Manufacturer including Tube should be provided Quality Assurance Certificate System should be CE / JIS / FDA certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 167 | Oxygen Flow meter | Any | ManufacturerKorea/Taiwan/China | **1** |
| 168 | Central Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 169 | Pressure Infusion Bag | PIB has a dual-pressure safety valve that switches between normal and over-pressure mode with a click of a button. Pressurisation and deflation can be achieved with one hand. The blunt hook will not puncture the fluid bag and is secure in the event of pressure loss. The rigid hanger design slips easily over IV poles. Size: 500mL to 3000mL • Highly visible color coded gauge accurately displays bladder pressure • Large inflation bulb with smooth recoil for hand comfort • Robust and durable construction to hold constant pressure and prevent leaks • Single-patient-use to minimize the spread of nosocomial infections via touch contamination • Color-coded printing for rapid identification of size • Materials that do not contain natural rubber latex or neoprene | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 170 | Laryngoscope Set Complete | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 171 | Cardiac Defibrillator | DisplayScreen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec., Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shock able rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 172 | Crash Emergency Trolley | Painted steel break-away lock bar, Pack of 100 break-away seals, 30” of vertical drawer space, Cabinet and drawer design allows for customized drawer configurations, Painted steel top rail / push handle, Removable plastic top, Full wrap-around bumper | Imported or Local Export Quality | **1** |
| 173 | Portable Suction Machine | Suction Machine  Suction Machine with two polycarbonate collection Jars of 2000ml each 4 antistatic castors , 2 with brakes.  Piston type, oil free. Pump flow: Minimum 60L/min and more. overflow prevention.  Hydrophobic PTFE filter. 3 m PVC Suction tube. Metallic handle, Metallic curved and straight catheter . | ManufacturerKorea/Taiwan/China | **1** |
| 174 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **4** |
| 175 | Paediatric Ventilator | Unit to offer microprocessor controlled electronic and sophisticated pneumatics to provide controlled and monitored ventilation and able to be used for neonates and infants. · Adjustment able to be made in line with minute volume,the expiratory and inspiratory flow to be separately adjustable, flow to be independent of PEEP over the whole flow range, · To have precise oxygen mixing particularly in the range of 21 to 100% vol O2. · To have real-time display of pressure and flow waveforms and loops · Screen size 6 to 8 inches · Electrically powered electrically controlled · Integrated O2 monitoring, inspiratory and expiratory pressure measurement, flow monitoring for actual aponea, disconnection monitoring, tidal volume, minute volume, leak rate, spontaneous breathing frequency and trigger function. · Control principal pressure-limited, timed-cycle · Inspiratory time 0.1 to 2s · Expiratory time 0.2 to 30s · Inspiratory flow V/Expiratory flow V 1 to 30/L/min · Inspiratory O2 concentration O2 vol % 21 to 100 vol %O2 · Tidal Volume 5 to 100ml · Rate 1 – 150 bpm · Trigger response time approx. 30 ms · Pressure / flow triggering · A/C, SIMV, Spontaneous · PEEP or CPAP 0 to 15 mbar · Power consumption approx. 140 W · Gas supply operating pressure O2/Air 3 bar - 10% to 6 bar + 10% · Test Lung OPTIONAL: Air Compressor  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 176 | UPS with complete Accessories | Any | Any | **1** |
| 177 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And 3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 178 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **8** |
| 179 | Syringe Pump | Graphic LCD monochrome display, size 66 mm x 33 mm  0.1 to 200 ml per hour flow rate range  Syringe capacities 5, 10, 20, 30, and 50 cc. with ± accuracy.  Rechargeable Battery with capacity of 8-10 hours  Power 100-240 Vac / 15 VA.  All alarms expressed by means of light indicators, written words, pictograms and sound beep.  Infusion mode in volume/time, volume limit 0.1 to 999.99 ml with 0.1 ml increments.  3 modes priming. Manual bolus rate 50-1200 ml/hour (50 ml/hour increments)  KVO 1 and KVO 2 from 0.1 to 5 ml/hr. adjustable and storable, continuous infusion or stop.  PAUS: Programmable from 1 minute to 24 hours, increments from minute to minute.  1500 data log events in real time.  Drug list of 50 agents adjustable with Vigilant.  Syringe barrel clasp check, plunger head detection, anti siphon system check, flange detection.  Clamp for fixation to a rail or to pole for unit.  OPTIONAL  Four syringe pump docking station.  Rolling Stand Base with 5 Rollers  Power Fix for 4 syringe pumps  Main Power Cable | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 180 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampoules) Quality control kit – level 2 (30 ampoules) Quality control kit – level 3. (30 ampoules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 181 | Ventilator | Display Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes. Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **4** |
| 182 | Fowler bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. Local or Best Imported Quality | Imported or Local Export Quality | **4** |
| 183 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 184 | Foot Step | Size : Single Step 410x275x210 mm. Epoxy Coated Framework Top: Non-slip Rubber Coated made of MS/SS | Imported or Local Export Quality | **4** |
| 185 | Comod Chair | Any | Imported or Local Export Quality | **1** |
| 186 | Emergency Light | Any | Any | **1** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **FOR KIDNEY CENTER** |  |  |  |
| 187 | Haemodialysis Machine | Computerized programmable with graphical display, 10” or above Electronic control of dialysate flow rate and blood flows. Variable Bicarbonate / Acetate Concentration. Programmable Ultra filtration with control or varying rate Sodium , UF Profiles Automatic priming with display Display for service diagnostic and calibration Automatic Thermal disinfect mechanism (upto 80 deg C or above) Blood Pump: 15 to 600ml/min or above, capable for adult & paeds blood Tubing Line (Auto adjustment from front panel). Programmable Heparin Management, with bolus option (Heparin pump: 0-10cc/hour). Electronically selectable Dialysate Flow : 0 to 800 ml/min or above Temperature Control: upto 39 deg. C.(Adjustable) Arterial Pressure Monitor:- 300mmHg to + 200 mmHg or above Venous Pressure Monitor:-50 mmHg to + 500mmHg or above. Ultra filtration Rate Control: Range of UFR0 to 4 Liters / hr or above. Air Bubble Detection: Air bubble detector alarm threshold. Facility for adjusting blood level of venous Chamber from panel. Blood Leak Detection, Conductivity Monitor:- Acid and Bicarbonate Solution, 13 to 15.5 mS/cm with the increment of 0.1 mS/cm. Powder Bicarb, internal automatic mixing module. Integrated Endotoxin Filter Module.Real Time online Kt/v with graphical display and with plasma Na+ reading, Integrated BP Monitor. 220 V, 50 Hz power with Automatic Battery backup for at least 15-min or more.Servo stabilizer with each machine, durable & fine quality (Local/Imported) Should be FDA/CE approved (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, German, Europe & Japan  FDA/CE/JIS  Certified |  |
| 188 | R.O. System with Loop System | 1. Loop system 2. C E Marked / FDA approved 3. Capable for 15 Machines 4. Capacity 700-800 Ltr / Hr 5. Pre and post monitoring system 6. Dead zone free / thread less complete SS fitting and frame 7. Complete pre-treatment system | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
|  | **FOR NOORIABAD TRAUMA CENTER** |  |  |  |
| 189 | Cubicles Wall mounted Drip Stand | Any | Imported or Local Export Quality | **10** |
| 190 | Central O2 x Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 191 | Trolley BP Apparatus |  | Imported or Local Export Quality | **3** |
| 192 | Suction Machine | · Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and  Wall-mounted v-socket x 1. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 193 | ER Bed | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **12** |
| 194 | Stretcher Trolley | Patient Stretcher trolley I/V pole “W” SS rod removable. Mattress vinyl covered foam top on 12mm plywood Oxygen cylinder holder provided Caster four 6” provided two with stopper. Hi – Low adjustment provided manually with crank system. Material Steel powder coated. Dimension: L1900 X W600X H500-800mm Side rails drop down side rails in Chrome or powder coated finish. | Imported or Local Export Quality | **5** |
| 195 | Wheel Chairs | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | **5** |
| 196 | Crash Trolley with all standard accessories | Crash trolley with 4 swivel castors with brakesHaving 4 drawers or moreTop tray for defibrillatorSide tray for instruments Complete with adult and child resuscitator with face mask.Venture suction with collection jarContainer for wasteDrip stand supportCardiac boardOxygen regulatorFlow meter with humidifier | Imported or Local Export Quality | **5** |
| 197 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 198 | Neck Collar | Any | Imported or Local Export Quality | **5** |
| 199 | General Surgical Set | Any | Imported or Local Export Quality | **1** |
| 200 | Dressing Bag | Any | Imported or Local Export Quality | **10** |
| 201 | Stitching Bag | Any | Imported or Local Export Quality | **10** |
| 202 | Emergency Cupboard | Any | Imported or Local Export Quality | **5** |
| 203 | Tourniquet | Table Unit with Carrying Handle, Stand and Basket  pneumatic precision pressure regulator  Dual Channel  Separate programmed setting of 2 channel  Touch Key ped control easy checking and cleaning  Self Test of pressure sensor and system check  Fast cuff infltion and deflation  Regulator knob allows very precise regulation limits pressure to max. 600 mmHg  Automatic change to manual system during failure of compressed air  Arm / 35 cm Silicone /Velcro Cuff , autoclavable, easy to clean and dry quickly  Child / 30 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly  Infant / 20 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **6** |
| 204 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals. Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination. Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report.  System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 205 | Nebulizers | · Ultrasonic Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of atleast 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 206 | Operating Table (Trauma/Multifunction, electric/hydraulic driven) | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 207 | Operation Light | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 208 | Central O2 x Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 209 | General Surgery Set | General Surgery Set Complete in All Respect Bowl Lotion 250 mm (2 Nos) Gallipot/Cup S/S 180 ml (2 Nos) Gallipot/Cup S/S 250 ml (2 Nos) Tray Kidney shape with Lid S/S 200x30 mm (2 Nos) Tray Kidney shape with Lid S/S 300x50 mm (2 Nos) Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos) Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos) Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos) Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos) Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos) Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos) Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos) Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos) Forceps Towel Holding cross Action S/S 100 mm (8 Nos) Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos) Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos) Handle size 3 for scalpel blades size 10-15 (1 Nos) Handle size 4 Scalple blades size 20-24 (1 Nos) Needle Holder Kilner’s 165 mm (1 Nos) Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos) Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos) Scissors Mayo’s CO Flat 200 mm S/S (1 Nos) Scissors Mayo’s Straight 200 mm S/S (3 Nos) Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos) Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos) Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos) Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos) Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos) Retr. Walton, malleable copper 13mm length 305mm (1 Nos) Needle Aneurysm S/S. Small 146 mm (1 Nos) Pin Safety Mayo, forceps holding, 120mm (4 Nos) Suction Tube Mclndoe (1 Nos) Suction Tube Poole’s S/S 225 mm Sterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm. Made from imported stainless steel, Rust resistant and Satin finish Local Manufacturers only can Participate directly |  | **1** |
| 210 | General Ortho Set |  |  | **1** |
| 211 | Vascular Clamps |  |  |  |
| 212 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 213 | Tourniquet | Table Unit with Carrying Handle, Stand and Basket  pneumatic precision pressure regulator  Dual Channel  Separate programmed setting of 2 channel  Touch Key ped control easy checking and cleaning  Self Test of pressure sensor and system check  Fast cuff infltion and deflation  Regulator knob allows very precise regulation limits pressure to max. 600 mmHg  Automatic change to manual system during failure of compressed air  Arm / 35 cm Silicone /Velcro Cuff , autoclavable, easy to clean and dry quickly  Child / 30 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly  Infant / 20 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 214 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper.12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals.Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis.Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications.The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden.AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination.Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics.. System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 215 | **Radiology X-Ray Machine with Procedure** | **Digital Mobile Radiography System**  Mobile x-ray unit, H.F. microprocessor controlled x-ray generator.  Power 32 kW.  Rotating anode x-ray tube focus 0.8-1.3mm.  Tube anode heat capacity 107kHU.  Max values 300mA, 100kV.  22’’ Touch screen LCD console with full screen image.  System Weight: maximum **280 kg.**  Portable strongly built detector.  Portable detector sustains a weight of 7.5kg.  The System is a digital mobile x-ray unit equipped with a **wireless 36x43cm flat panel detector.**  The System also features **+180\*/-180\* rotation of the x-ray monoblock arm** to facilitate exam execution in narrow spaces.  The System is 100% microprocessor controlled and equipped with a **large area 22” LCD high contrast touch screen console,**  The System has been designed with **extensive use of light-weight alloys,** thus allowing easy system mobility with minimal effort and no need for costly and heavy system motors.  The System is characterized with a “dead man” breaking system with a comfortable handle that facilitates the unit movement and positioning. The breaking system blocks the unit in any position, just releasing the handle. An **automatic closedown** system prevents the unit from remaining in ON mode for prolonged time.  The System is **100% DICOM compliant.** Once the imaging session is completed, the entire study can be automatically sent to a PACS, a review workstation, or a DICOM printer; a large number of studies can be also maintained locally for temporary storage. And, most importantly, the intuitive Graphical User Interface makes the entire process smooth and easy. Needless to say the System DICOM layer has been thoroughly tested and will seamlessly interface with any DICOM environment.  The System is equipped standard with the **image enhancement algorithm,** which makes it possible to expand the latitude of a single image and see all the relevant clinical details at the same time and without time-consuming Window/Level adjustment.   |  |  | | --- | --- | | ***RADIOLOGICAL CHARACTERISTICS*** | | | Maximum power | 32 kW | | Inverter frequency | 40 kHz | | Max ripple | < 1% at max power | | Exposure times | 2-2200 ms | | kV range | 40-100 kV | | mAs range | 40kv - 200 mAs  50kv – 180 mAs | | Max curent | 300 mA @ 100kv | | Operating mode | Two-points | | Anatomical techniques | Over 550 ANATOMICA TECHNIQUES can be stored | | X-ray tube type | Rotating anode | | X-Ray monoblock Colum arm rotation | ± 90 deg. | | Monoblock rotation around (X-Y axis) | X ±180 deg.  Y +103 deg. / -50 deg. | | Focus height min | 2022 mm | | Maximum anode heat content | 80 kJ (107 kHU) | | Thermal monoblock | 600 kj (800KHU) | | APR | * 1000 | | Maximum continuous anode heat dissipation | 300 W (24 kHU/min) | | **Internal Battery** for unplugged exams executions | Standard |  |  |  | | --- | --- | | ***OPERATING CHARACTERISTICS*** | | | Operator interface | Rear-lit High-Contrast 1280 x 1024 **22” LCD touch screen display** for all the operating parameters and messages for any possible anomalous conditions | | DAP camera | Optional | | Automatic closedown | The unit is fitted with an automatic closedown system minutes of not being used. This features prevent the unit from remaining on by mistake for long periods | | X-ray push button | Manual with double click and 4m extensible cable (standard) |  |  |  |  | | --- | --- | --- | | ***ACQUISITION SYSTEM*** | | | |  | Flat panel detector | Wire and WIFI | | IMAGE ACQUITION & STORAGE | Acquisition resolution  Scintillator  Detector dimensions  Pixel pitch  Max. spatial resolution | 3000x2372x16 bit  Cesium lodide (Csl)  35x43 cm  139 μm  3,6lp/mm | | Max images locally archived | 28000 images (no compression)  56000 images (lossless compression) | | Automatic LUT | YES, Linear and Logarithmic | | Image Enhancement | YES, Automatic | | Anatomic Programs | YES, preconfigured and editable | | DICO 3.0 | Print SCU | YES, (Optional) | | Store SCU/SCP | YES | | Worklist Management SCU | YES | | Media Storage SCU (CD/DVD) | Optional | | MPPS SCU | YES | | Storage Commitment SCU | YES | | Verification SCU/SCP | YES | | Query/Retrieve SCU | YES |  |  |  | | --- | --- | | ***MECHANICAL CHARACTERISTICS*** | | | X-ray monoblock arm rotation | + 180o | | Width [cm] | 74.5 cm | | Length [cm] | 152 cm | | Height [cm] | 148 cm | | Focus height max. [cm] | 202 cm | | Handling | Dead man brake | | Weight [kg] | **~** 280 kg |  |  |  |  | | --- | --- | --- | | ***ELECTRICAL DATA*** | | | | Power supply voltage | Single phase, 230 Vac (240V – 110Vac optional) +/-10% | | | Frequency | 50/60 Hz | | | Maximum Absorbed Current | 16 A | | | Line impedance | 0.4 Ω | | | ***ENVIRONMENT CONDITIONS*** | | | | Operating temperature | | From 15o C to 35o C | | Operating humidity | | From 30% to 75% | | ManufactureUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 216 | Mini Lab with All Basic Equipments |  | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 217 | Blood Bank Reserving |  | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 218 | Fowler’s Beds | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **25** |
| 219 | Bedside Lockers | Overall size: 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | Imported or Local Export Quality | **15** |
| 220 | Drip Stand | M.S. tubular pipe. Five legged heavy polypropylene base mounted on 5 cms castors. Double hook S.S. adjustable IV rod with a Bakelite knob.Pre-treated and epoxy powder coated. Knockdown construction. | Imported or Local Export Quality | **15** |
| 221 | Emergency | Any |  | **3** |
| 222 | Trolleys | Any |  | **2** |
| 223 | Trolleys BP |  |  | **3** |
| 224 | Suction Machine | Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and  Wall-mounted v-socket x 1. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 225 | Nebulizers | · Ultrasoinc Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of atleast 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclaveable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 226 | Steamer |  |  | **2** |
| 227 | Fully Loaded Ambulances | Ambulance 600 to 800 CC Supply of ambulance  fabricationWork Details:  Sliding/Fix stretcherOxygen cylinder kit complete with O2 flow meter and humidifier.  First Aid box complete Emergency lights on roof  complete with siren and hotter  Stickers on outer body, mentioning name of each respective SESSI Hospital and word “Ambulance” on front and back.  Attendant seatsComplete flooring With all accessories equipments with kits, cylinder and resuscitating equipment.  Complete with lights and other fixture like dustbin. In hooks, cervical neck collar, face mask necessary for the ambulance. Optional Items i.e AED Defibrillator.Make: UK/USA/ EEC/Japanii.  Suction Machine Oil free, piston pump for ambulance use. Make: UK/USA/ EEC/Japan  Multiparameter monitor  ECG /SpO2/NIBP/RESP/TEMP | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 228 | Standby Generator |  |  | **1** |
|  | **FOR SUKKUR MEDICAL CENTER 25 BEDED** |  |  |  |
| 229 | Male, Female and Pediatric Bed |  |  | **3** |
| 230 | Fowler’s Bed | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, | Imported or Local Export Quality | **25** |
| 231 | Bedside Lockers | Overall size : 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | Imported or Local Export Quality | **25** |
| 232 | BP Apparatus Trolley | Any - | Imported or Local Export Quality | **2** |
| 233 | BP Manual | · Lightweight aluminum case. · Recessed plastic manometer tube range 0-300mm Hg w/ shatter proof reservoir. · Provision for storage for bulb, valve tubing, and Velcro adult and pediatric cuff with bag. |  | **3** |
| 234 | Torch, Toung Depressor, Steamer |  |  | **2** |
| 235 | Nebulizers | · Ultrasonic Energy for uniform and highly dense particles of 1-5 microns size · Filtration rate of at least 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 236 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 237 | Stretcher | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Imported or Local Export Quality | **2** |
| 238 | Sterilizer |  | Imported or Local Export Quality | **4** |
| 239 | Trolleys | Patient Trolleys | Imported or Local Export Quality | **3** |
| 240 | Wheel Chairs | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | **3** |
| 241 | Center O2 + Suction | Centralized Suction Venturi systemITEM 1WALL OUTLET.Outlet should have double lock quick connect and gas specific. The latch / locking release mechanism should be incorporated on the gas outlet with geometrical key indexing and should have a parking facility so that in the event of release of probe by pressing the spring loaded center, the probe / flow meter does not fall down.Gas outlets wall mounted, Complete in Box/casing gas Specific, Self sealingvalve, indexed to eliminate interchangeability/erroneous tapping of gasand cover plate.  ITEM 2: Air Venturi System with Gauge 25 Nos.The injector should be connected to wall source of pressure gas usingdirect probe or rail mounting system. Max. Vacuum 650 to 700 mbar.System should be supplied with 02liter Un Breakable &Sterilizablecollection jar.ITEM 3(a)Multiple Zone Valve Box with Monitoring Gauge for Suction 1 No.Microprocessor controlled with digital display of pressure.Each wall type zone valve box shall consist of the following Components.A steel valve box which can house two to four shut-off-ball valve with tubeextensions.  ITEM 3: (b) Multiple Zone Valve Box with Monitoring Gauge for two gases 2 Nos.Microprocessor controlled with digital display of pressure.Each wall type zone valve box shall consist of the following Components.A steel valve box which can house two to four shut-off-ball valve with tubeextensions.  ITEM 4: OXYGEN FLOW METER WITH HUMIDIFIER & PROBES: 25 Nos.With autoclave able and unbreakable humidifier bottle and probe.  ITEM 5: COPPER PIPING (IMPORTED FROM UK, EUROPE, USA): Supply and installation of seamless copper pipe, deoxidized andfor use in piped medical gas systems,Therefore it is guaranteed that the tubes areleak-tight, free of pores, blisters etc, Tubeis drawn seamless, according to HMT 2022 (HTM 02-01) Or equivalent.Material:-Copper tubes, including fixing clips forceiling and walls, sleeves, reducers, tee'sbends and soldering material.ITEM NO 6Oil Free Duplex Air Compressor System01 DUPLEX SYSTEM100% oil free 10 HP duplex Medical Air Compressor Plan with air dryer, filters, Bypass system, Electrical Panel Air Compressor System x 22 x Model: 7.5OP-9.5V/6AMotor Power (KW / HP): 3.7 / 5Piston Displacement: 541 lit/minFree Air Flow: 440 lit/minWorking Pressure: 9.5 KG/CM2G (135 PSI)Power Source: 380V / 3PH / 50HZNoise Level: 74 dB(A) at 1.5 MeterTank: 125 LitersAir Dryers2 x Dryer Model: AMH-12Volume Flow Rate @ Inlet: 1200 lit/min @80 ⁰CMax. Operating Pressure: 14 barg.Max. Ambient Temperature: 45 ⁰CPressure Dew Point: +3 ⁰CRefrigerant: R134 APower Source: 230V / 1PH / 50HZFiltration 2 x Pre-Filter: FT-012P – 1200 lit/min (3 Micron) ½”4 x After-Filter: FT-012X – 1200 lit/min (0.01 Micron) ½” 1.9) By Pass System (Local with Imported Fittings):Isolation Valves, Adaptors, Regulators & Pressure Switches.Electrical PanelSimple Controlled Electrical Panel, Pressure based Automatic Switching between Compressors, Contractors, Overload, Power Indication Lights and Circuit Breakers. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 242 | Autoclave | Capacity 16-30 liters (Bench top) · Microprocessor management and digital display · Automatic functioning · Thermodynamic initial vacuum · Thermical drying system · Fully automatic chamber water filling and safety mechanism | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 243 | Operation Table | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 244 | OT Light with all standard accessories | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 245 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 246 |  |  |  | **2** |
| 247 | General Set | General Surgery Set General Surgery Set Complete in All RespectBowl Lotion 250 mm (2 Nos)Gallipot/Cup S/S 180 ml (2 Nos)Gallipot/Cup S/S 250 ml (2 Nos)Tray Kidney shape with Lid S/S 200x30 mm (2 Nos)Tray Kidney shape with Lid S/S 300x50 mm (2 Nos)Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos)Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos)Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos)Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos)Forceps Towel Holding cross Action S/S 100 mm (8 Nos)Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos)Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos)Handle size 3 for scalpel blades size 10-15 (1 Nos)Handle size 4 Scalple blades size 20-24 (1 Nos)Needle Holder Kilner’s 165 mm (1 Nos)Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos)Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos)Scissors Mayo’s CO Flat 200 mm S/S (1 Nos)Scissors Mayo’s Straight 200 mm S/S (3 Nos)Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos)Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos)Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos)Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos)Retr. Walton, malleable copper 13mm length 305mm (1 Nos)Needle Aneurysm S/S. Small 146 mm (1 Nos)Pin Safety Mayo, forceps holding, 120mm (4 Nos)Suction Tube Mclndoe (1 Nos)Suction Tube Poole’s S/S 225 mmSterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm.Made from imported stainless steel, Rust resistant and Satin finishLocal Manufacturers only can Participate directlyMust be CE Marked Product/ Export Quality | Imported or Local Export Quality | **1** |
| 248 | Ortho General Set | Any | Imported or Local Export Quality | **1** |
| 249 | Gynae Set | Any | Imported or Local Export Quality | **1** |
| 250 | Labour Room Set | Made from imported stainless steel, Rust resistant and Satin finish Export Quality Material Must be CE Marked Product | Imported or Local Export Quality | **1** |
| 251 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 252 | Bio Chemical Analyzer | Operating mode: Selective random access Assay methods: Kinetic, end pointer, fixed time, none linear, sample, blank, reagent blank, direct absorbance absorbance Test modes: Routine,Batch,STAT,Profiles Available on-line item: 17 mono or double reagent Momorizable items: 51 mono or double reagent Testing Speed: 100test/hour with end pointer assay method Test repetition: Automatic on command Calibration and controls: Automatic on command Sample plate capacity: 45positon for sera,STD and Controls Sample volume: From 5 to 200ul,with 1ul increment Reagent volume: From 300 to 900ul,with 1ul increment Optional system: Colorimetric Light source: Long life halogen lamp,12V,20W Detectors: 8 Silicon photodiodes UV/VIS Filter wavelength: 340-380-405-492-510-546-578-630nm Light path: 10mm Photometric linearity: From 0 to 2.500 Abs±1% Photometric sensitivity: 0.001Abs Reading cell: Continuous flow-cell.33ul Interface: Interface RS232 serial port Ambient temperature:18 to 35℃ Incubation temperature: 37℃±0.1℃ Mains voltage:220V,50Hz (Optional 115V,60Hz) Power: 140W Dimensions: 370\*650\*670mm Net Weight: 38KG Configurable Computer: Personal desktop computer(17”monitor) Operating system: Windows XP(2000,2003,Vista) Configurable printe:24pin stylus printer or inkjet printer or laser printer | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 253 | Centrifuge Machine | Consisting Of: · Angle Rotor · Maximum Speed 6000rpm; Rcf 6250g · Timing Up To 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, 24 X 7ml (With Adaptor) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 254 | Microscope | Consisting Of:· Standard Microscope· Binocular Head, Adjustable Inter Pupillary Distance· Rotating Quadruple Nose Piece· Adjustable Stage With Vernier Scale And Spring Clip ForSlides,· Co Axial Controls· Condenser Carrier, Vertically Adjustable· Bright field Condenser, N.A. 0.9, Flip Top· Aperture Iris Diaphragm· Kohler Illumination· Halogen Illuminator 6v 20wEyepiece Lenses:-· X 8 Wide field, Focusable· X 10 Wide field, FocusableObjective Lenses:-· X 10 Achromat N.A. 0.25· X 40 Achromat N.A. 0.65· X 100 Achromat N.A. 1.25, Oil ImmersionOptions And Accessories:-· Blue Iris Aperture Filter· Oiler· Spare Bulbs X 10· Carrying Box· Dust Cover | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 255 | X-Ray Machine with Procedure |  |  |  |
| 256 | **Ultrasound Machine** |  |  | **1** |
| 257 | ICU Beds | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **5** |
| 258 | Ventilator (From Adult to Neonates) | Display Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 259 | Cardiac Defibrillator | DisplayScreen Type: High-resolution display. Screen Size: 5 inches. Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected.Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shockable rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.Country of (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |
| 260 | Crash Trolley with all standard accessories | Crash trolley with 4 swivel castors with brakes Having 4 drawers or more Top tray for defibrillator Side tray for instruments Complete with adult and child resuscitator with face mask. Venture suction with collection jar Container for waste Drip stand support Cardiac board Oxygen regulator Flow meter with humidifier |  | **3** |
| 261 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampules) Quality control kit – level 2 (30 ampules) Quality control kit – level 3. (30 ampules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 262 | Pulse Oximeter | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 263 | Emergency Cupboard |  |  | **3** |
| 264 | Non-Invasive Blood Pressure Apparatus | NIBP SpecificationsCuff Pressure Range: (Normal operating range)0 to 290 mmHg (adult/ped)0 to 145 mmHg (neonate)Maximum Determination: 120 s (adult/ped) 85 s (neonate)Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg (Neonate)Systolic: 30 to 290 mmHg (adult/ped) 30 to 140 mmHg (neonate)MAP: 20 to 260 mmHg (adult/ped) 20 to 125 mmHg (neonate)Diastolic: 10 to 220 mmHg (adult/ped) 10 to 110 mmHg (neonate)SpO2 Measurement RangeSpO2: 1 to 100%Pulse Rate: 30 to 250 bpmPerfusion Range: 0.03 to 20%Adult: 70 to 100% +/-2 digits Whichever is greater (without motion)Neonate: 70 to 100% +/-3 digits (without motion)Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion)Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion)Pulse RateAdult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)Low Perfusion: 30 to 250 bpm +/-3 digitsBattery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufactuerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 265 | Multipara Monitor | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 266 | Stretcher | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. |  | **2** |
| 267 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 268 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia.Front castors, fixed aluminum foot steps |  | **2** |
| 269 | Laryngoscope | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle, | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 270 | Emergency Cupboard |  |  |  |
| 271 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 272 | CTG Machine | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified |  |
| 273 | Non-Invasive Blood Pressure Apparatus | NIBP Specifications Cuff Pressure Range:  (Normal operating range) 0 to 290 mmHg (adult/ped) 0 to 145 mmHg (neonate) Maximum Determination: 120 s (adult/ped)  85 s (neonate) Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg  (Neonate) Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate) MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate) Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate) SpO2 Measurement Range SpO2: 1 to 100% Pulse Rate: 30 to 250 bpm Perfusion Range: 0.03 to 20% Adult: 70 to 100% +/-2 digits Whichever is greater (without motion) Neonate: 70 to 100% +/-3 digits (without motion) Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion) Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion) Pulse Rate Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion) Low Perfusion: 30 to 250 bpm +/-3 digits Battery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection. Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active. Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |
| 274 | Forceps | Any |  |  |
| 275 | Syringe Box | Any |  | **5** |
| 276 | Stitching Box | Any |  | **5** |
| 277 | BP Apparatus | Sphygmomanometer - Mercury Type Mercury Type Mercury Type Should be Portable mercurial type, have ISI mark, ON and OFF provision for mercury reservoir, measuring range from 0 to 300 mmHg, Should be provided with adult arm cuffs of size medium & large and pediatric cuff. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute. The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm.The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking, The inflating bulb should be soft and should not have any joints or ridges. The mercury used should be clean, double distilled and of 99.9% purity. The fastening arrangements of the cuff should be of hook and loop type (Velcro).The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.The tubes should be fitted with male and female leur connectors. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |
| 278 |  |  |  |  |
| 279 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **FOR**  **TANDO ADAM MEDICAL CENTER 25 BEDED** |  |  | | **Q’ty** | |
| 280 | Male, Female and Pediatric Bed |  |  | | **3** | |
| 281 | Fowler’s Bed | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, | Imported or Local Export Quality | | **25** | |
| 282 | Bedside Lockers | Overall size: 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | Imported or Local Export Quality | | **25** | |
| 283 | BP Apparatus Trolley |  | Imported or Local Export Quality | | **2** | |
| 284 | BP Manual | · Lightweight aluminium case. · Recessed plastic manometer tube range 0-300mm Hg w/ shatter proof reservoir. · Provision for storage for bulb, valve tubing, and velcro adult and paediatric cuff with bag. |  | | **3** | |
| 285 | Torch, Tung Depressor, Steamer |  | Imported | | **2** | |
| 286 | Nebulizers | Ultrasonic Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of at least 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation, One extra flexible arm/delivery pipe | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 287 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 288 | Stretcher | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Imported or Local Export Quality | | **2** | |
| 289 | Sterilizer |  |  | | **4** | |
| 290 | Trolleys |  | Imported or Local Export Quality | | **3** | |
| 291 | Wheel Chairs | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | | **3** | |
| 292 | Center O2 + Suction |  |  | |  | |
| 293 | Autoclave | Capacity 16-30 litres (Bench top) · Microprocessor management and digital display · Automatic functioning · Thermodynamic initial vacuum · Thermical drying system · Fully automatic chamber water filling and safety mechanism |  | | **1** | |
| 294 | Operation Table | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 295 | OT Light with all standard accessories | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 296 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 297 | Suction Machine | Performance: High suction controller 0-750mmHg· Pressure Gauge: Diameter 63mm· Gauge Accuracy: +/- 2%· Controls: ON / OFF switch· 270deg vacuum control knob· Safety: Positive pressure restrictor· Filter: BactiTrap· Depth Approx. 100mm with probe 160mm· Complete with Autoclavable receiver jar x 2 and wall-mounted v-socket x 1. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |
| 298 | General Set | General Surgery Set  General Surgery Set Complete in All Respect Bowl Lotion 250 mm (2 Nos) Gallipot/Cup S/S 180 ml (2 Nos) Gallipot/Cup S/S 250 ml (2 Nos) Tray Kidney shape with Lid S/S 200x30 mm (2 Nos) Tray Kidney shape with Lid S/S 300x50 mm (2 Nos) Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos) Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos) Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos) Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos) Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos) Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos) Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)  Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos) Forceps Towel Holding cross Action S/S 100 mm (8 Nos) Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos) Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos) Handle size 3 for scalpel blades size 10-15 (1 Nos) Handle size 4 Scalple blades size 20-24 (1 Nos) Needle Holder Kilner’s 165 mm (1 Nos) Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos) Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos) Scissors Mayo’s CO Flat 200 mm S/S (1 Nos) Scissors Mayo’s Straight 200 mm S/S (3 Nos) Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos) Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos) Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos) Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos) Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos) Retr. Walton, malleable copper 13mm length 305mm (1 Nos) Needle Aneurysm S/S. Small 146 mm (1 Nos) Pin Safety Mayo, forceps holding, 120mm (4 Nos) Suction Tube Mclndoe (1 Nos) Suction Tube Poole’s S/S 225 mm Sterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos) Wire Cutting, Tungsten. Carbide inserts 180 mm. Made from imported stainless steel, Rust resistant and Satin finish Local Manufacturers only can Participate directly Must be CE Marked Product/ Export Quality |  | | **1** | |
| 299 | Ortho General Set |  |  | | **1** | |
| 300 | Gynae Set |  |  | | **1** | |
| 301 | Labour Room Set | Made from imported stainless steel, Rust resistant and Satin finish Export Quality Material Must be CE Marked Product |  | | **1** | |
| 302 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |
| 303 | Bio Chemical Analyzer | Operating mode: Selective random access Assay methods: Kinetic, end pointer, fixed time, none linear, sample, blank, reagent blank, direct absorbance ,Test modes: outine,Batch,STAT,Profiles Available on-line item: 17 mono or double reagent Momorizable items: 51 mono or double reagent, Testing Speed: 100test/hour with end pointer assay method,Test repetition: Automatic on command,Calibration and controls: Automatic on command,Sample plate capacity: 45positon for sera,STD and Controls, Sample volume: rom 5 to 200ul,with 1ul increment Reagent volume: From 300 to 900ul,with 1ul increment Optional system: Colorimetric, Light source: Long life halogen lamp,12V,20W Detectors: 8 Silicon photodiodes UV/VIS Filter wavelength: 340-380-405-492-510-546-578-630nm Light path: 10mm, Photometric linearity: From 0 to 2.500 Abs±1%,Photometric sensitivity: 0.001Abs, Reading cell: Continuous flow-cell.33ul,Interface: nterface RS232 serial port,Ambient temperature:18 to 35℃,Incubation temperature: 37℃±0.1℃,Mains voltage:220V,50Hz (Optional 115V,60Hz) Power: 140W, Dimensions: 370\*650\*670mm, Net Weight: 38KG, Configurable Computer: Personal desktop computer(17”monitor)FDA/CE/JIS Certified Operating system: Windows XP(2000,2003,Vista) Configurable printe:24pin stylus printer or inkjet printer or laser printer | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 304 | Centrifuge Bench Top Multiuse | Consisting Of: · Angle Rotor · Maximum Speed 6000rpm; Rcf 6250g · Timing Up To 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, 24 X 7ml (With Adaptor) |  | |  | |
| 305 | Microscope | Consisting Of:· Standard Microscope· Binocular Head, Adjustable Inter Papillary Distance· Rotating Quadruple Nose Piece· Adjustable Stage With Vernier Scale And Spring Clip ForSlides,· Co Axial Controls· Condenser Carrier, Vertically Adjustable· Bright field Condenser, N.A. 0.9, Flip Top· Aperture Iris Diaphragm· Kohler Illumination· Halogen Illuminator 6v 20wEyepiece Lenses:-· X 8 Wide field, Focusable· X 10 Wide field, FocusableObjective Lenses:-· X 10 Achromat N.A. 0.25· X 40 Achromat N.A. 0.65· X 100 Achromat N.A. 1.25, Oil ImmersionOptions And Accessories:-· Blue Iris Aperture Filter, · Oiler, · Spare Bulbs X 10· Carrying Box· Dust Cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 306 | X-Ray Machine with Procedure | Exposure range at least 0.5–200 mAs Shortest exposure time: not more than 10ms. Max. Exposure time: not less than 5 sec. Tube head must be rotatable in all planes. Adjustable collimator and light marker Easy to use and to move. Non automotive Two point technique – kV and mAs. High- frequency X-ray generator with multipulse voltage provider. The touch-screen keys and digital display of kV and mAs values. Output: not less than 2.5kW. 120 kV, 40mA. Focal spot not more than 1 mm. Collimator: rotatable ± 90° Max. horizontal extension at least 800mm Power Requirements 220 V ±10%, 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 307 | Fully Digital beam Ultrasound color system | Portable Grey Scale machine with B mode (2 D), M mode, Color Doppler and optional CW, Tissue harmonics, Compound imaging, Trapezoid imaging, panoramic imaging with Processing channels of 90000 or More  Color Doppler and Continuous Wave Doppler Ultrasound.  External 2 Probe Connector (optional)  Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, and Pediatrics  Cine Memory of 128MB.  Internal Hard disk Drive up to 500GB.  Frame Rate: 300 fps or more  Separate trolley available  Machine must have options of Trapezoidal Imaging, Needle Visualization Software,Speckle Reduction Filter for improve the grainy images  Quick Gain/ Auto Optimization.  Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD  Post processing of 2D, Color and PW with complete features like Dynamic range Auto optimization etc.  Spatial Compounding imaging available on Convex, Linear and Endocavity Probe.  Tools to measure the fetal biometry measurements (FL, BPD, HC,AC) and the breast lesions automatically.  Built in training tool to guide the end user to do any procedure (to include images and videos).  Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging.  Zoom: Read and write Zoom compulsory  Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  FreeHand 3D  Probes:  Convex Probe:2-5MHz  Applications: Abdomen, OB/Gyn, Vascular, Urology.  Endocavity Probe:-10MHz  Applications: OBS/Gyn, Urological/ Transvaginal and Transrectal.  **Optional :**Linear Probe: 4-12MHz  Applications: Vascular, Small Parts and Pediatrics  Accessories: 2KVA UPS and B/W Thermal Printer | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 308 | ICU Beds | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **5** | |
| 309 | Ventilator for Adults to Neonates | Display:Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation: Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG)Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity:Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric):Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |
| 310 | Cardiac Defibrillator | DisplayScreen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shockable rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.Country of Origin: USA/Europe/Japan | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |
| 311 | Crash Trolley with all standard accessories | Crash trolley with 4 swivel castors with brakes Having 4 drawers or more Top tray for defibrillator Side tray for instruments Complete with adult and child resuscitator with face mask. Venture suction with collection jar Container for waste Drip stand support Cardiac board Oxygen regulator Flow meter with humidifier | Imported or Local Export Quality | | **3** | |
| 312 | ABG Machine 01 | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampules) Quality control kit – level 2 (30 ampules) Quality control kit – level 3. (30 ampules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 313 | Pulse Oximeter | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 314 | Non-Invasive Blood Pressure Apparatus | NIBP SpecificationsCuff Pressure Range: (Normal operating range)0 to 290 mmHg (adult/ped)0 to 145 mmHg (neonate)Maximum Determination: 120 s (adult/ped) 85 s (neonate)Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg (Neonate)Systolic: 30 to 290 mmHg (adult/ped) 30 to 140 mmHg (neonate)MAP: 20 to 260 mmHg (adult/ped) 20 to 125 mmHg (neonate)Diastolic: 10 to 220 mmHg (adult/ped) 10 to 110 mmHg (neonate)SpO2 Measurement RangeSpO2: 1 to 100%Pulse Rate: 30 to 250 bpmPerfusion Range: 0.03 to 20%Adult: 70 to 100% +/-2 digits Whichever is greater (without motion)Neonate: 70 to 100% +/-3 digits (without motion)Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion)Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion)Pulse RateAdult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)Low Perfusion: 30 to 250 bpm +/-3 digitsBattery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active. 11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.FDA/CE/JIS CertifiedCharge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 315 | Multipara Monitor | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 316 | Stretcher | SS Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Imported or Local Export Quality | | **2** | |
| 317 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 318 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | | **2** | |
| 319 | Laryngoscope | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2, 3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle Miller type to be quoted as option | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 320 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 321 | CTG Machine | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |
| 322 | Non-Invasive Blood Pressure Apparatus | NIBP Specifications Cuff Pressure Range:  (Normal operating range) 0 to 290 mmHg (adult/ped) 0 to 145 mmHg (neonate) Maximum Determination: 120 s (adult/ped)  85 s (neonate) Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg  (Neonate) Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate) MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate) Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate) SpO2 Measurement Range SpO2: 1 to 100% Pulse Rate: 30 to 250 bpm Perfusion Range: 0.03 to 20% Adult: 70 to 100% +/-2 digits Whichever is greater (without motion) Neonate: 70 to 100% +/-3 digits (without motion) Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion) Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion) Pulse Rate Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion) Low Perfusion: 30 to 250 bpm +/-3 digits Battery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection. Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active. Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |
| 323 | Forceps | All Standard Sizes / CE Marked Export Quality |  | |  | |
| 324 | Syringe Box |  |  | | **5** | |
| 325 | Stitching Box |  |  | | **5** | |
| 326 | BP Apparatus | Sphygmomanometer - Mercury Type Mercury Type Mercury Type Should be Portable mercurial type, have ISI mark, ON and OFF provision for mercury reservoir, measuring range from 0 to 300 mmHg, Should be provided with adult arm cuffs of size medium & large and pediatric cuff. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute. The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm.The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking; The inflating bulb should be soft and should not have any joints or ridges. The mercury used should be clean, double distilled and of 99.9% purity. The fastening arrangements of the cuff should be of hook and loop type (Velcro).The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.The tubes should be fitted with male and female leur connectors. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |
| 327 | Stretcher Trolley | •Collapsible type •Aluminum Alloy material •Three sections stretcher top with adjustable head and foot section. Head section can be raised at any desired position. •Castors 6- Nos. and two will be used in the collapsible position. •Vinyl Leather bed and body straps. •Side protections •Weld free fabrication. •Right and front Side stretcher-locking mechanism in patient cabin. •Overall Dimensions . Length 78” . Width 22” . Maximum Height in full standing condition 48” . Minimum height in collapsible condition 12” | Imported or Local Export Quality | | **2** | |
| 328 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | |  | |
|  | **FOR TANDO ADAM MEDICAL CENTER 25 BEDED** |  | |  | |  | |
| 329 | Male, Female and Pediatric Bed | **Any - Imported or Best Quality Local Made** | | Imported or Local Export Quality | | **3** | |
| 330 | Service Level Agreement  (SLA) | The supplier should engaged for Service Level Agreement for one year of their quoted equipments | |  | | **Job** | |

**“SUPPLY & INSTALLATION OF HOSPITAL & MEDICAL EQUIPMENT FOR**

**SINDH EMPLOYEES SOCIAL SECURITY INSTITUTION (SESSI) SINDH”**

**BOQ – PRICE SCHEDULE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.N** | **Name of Equipment** | **Specification** | **Model/ Make** | **Qty** | **U/Price** | **Tot**  **Price** |
|  | **FOR K.V.S.S HOSPITAL** |  |  |  |  |  |
| 1 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 2 | N.I.B.P. Monitor (non-invasive blood pressure monitor) | Oscillometry for NIBP measuring, Photoelectric Oxyhemoglobin Inspection Technoloav Capacity Pulse Scanning & Recording Technco , Systolic Pressure(SYS) Diastolic Pressure(DIA) Mean Pressure (MAP) Sp02 Pulse rate (PR)  NIBP monitoring  Measurement method: Oscillometry  Measurement mode: manual/auto/continuous.  Auto measurement interval: adjustable from 1 to 90 minutes.  Resolutioh 1mmHg.  Accuracy: Maximum Mean deviation <.±5mmHg, Maximum Standaratleviation <5.8mmHg.  Self-check function.  Overpressure protection: double protection for software and hardware. Range: Adult  Systolic pressure: 40mmHg-270mmHg  Mean pressure: 20mmHg-235mmHg  Diastolic Pressure: l0mmHg--215mmHg  Pediatric:  Systolic pressure: 40mmHg-200mmHg  Mean pressure: 20mmHg-165mmHg  Diastolic Pressure: lOmmHg--150mmHg  Neonatal:  Systolic pressure: 40mmHg-135mmHg  Mean pressure: 20mmHg-110mmHg  Diastolic Pressure: 10mmHg--100mmHg  Sp02 Continuous real-time measuring. Adopt digital Sp02 technology, which has strong anti-interference capability. Real-time display Sp02, pulse rate, Plethysmo-gram, bar graph, Sp02 and Pulse rate (PR) trend graph. Standard finger-clip probe for adult, binding probe for neonatal is optional. Sp02 Measuring  Accessories:  A power cord  A power adapter A Sp02 probe  An adult NIBP cuff  An extending tube for blood pressure (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |  |  |
| 3 | Stretcher Trolley | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Any | 4 |  |  |
| 4 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And 3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 5 | Auto clave for dental instrument | Features:  Class N  Digital sterilization cycle recorder (SD & USB)  Overheat protection  Pressure overload protection  Pressure safety valve  Pressure auto-lock  Micro switch door lock  Emergency stop button  Chamber capacity 16-Liter Sterilization Temp (121 and 134 C)  Control system Microprocessor  Life time: 7 years | Any | 1 |  |  |
| 6 | Dental Imaging system | Technology: Imaging plate (PSP = Photo Stimulable Phosphor plate) Pixel size (selectable) : 30 µm (SUPER RESOLUTION)  60 μm (HIGH RESOLUTION) Resolution 17 lp/mm Readout time 5 - 10 seconds (depending on the plate size) Connection: Standard network connection (Ethernet RJ45) Dimensions (H x W x D) 152 x 227 x 308 mm (6 x 8.9 x 12,1 “) Weight 3.5 kg (7.7 lbs) offers consistent, enhanced diagnostic quality with high contrast images with accuracy to the smallest clinical details - automatically and repeatedly.  Operating voltage 100-240 VAC, 50/60 Hz Operating system Windows 7 or Windows 8 | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 7 | Dental Unit | 3 Hand pieces over the patient delivery system.· flexible balance arm., Stainless steel instrument tray, Rectangular air pressure gauge, Water flow control, Individual air pressure controls.· One 3-way syringe for doctor, 3-Aseptic easy clean, tubings and fittings for the hand pieces.· Air operated foot switch.· X-Ray Viewer compatible with the unit. · The movement of the chair through hydraulic pump and solenoid valve· Movable right arm rests · Headrest adjustable for Pediatric/adult use · Emergency stoppage by single touch of switch.· Solenoid valve operated on 12V AC for safety. · Up/down and back/forward movements. · Smooth seamless upholstery · Built-in water pressure bottle systemLIGHT:· 12V, 55W, 4500°K day light for perfect· Matching of colors, up, down, back forward and inverse movements of the light head.· Light Intensity Low: 16000 lux· Light Intensity High: 24000 lux· Time controlled automatic adjustable cup filler.· Bowl Flush.· Saliva Ejector (Air operated).· Air, Water, supply lines in junction box.· Safe electrical compartment with transformer, fuse,main switch etc. to give output. 24 VAC for safety.· Main 220/240V.DENTSIT STOOL· Operating stool with adjustable height· Gas spring operated· Revolving on 5 castors, one· with back support. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 8 | OBTURA | American based make | Any | 1 |  |  |
| 9 | Oil Free Compressor | Chinese | Any | 1 |  |  |
| 10 | OPG MACHINE | with Cephalometric & Segmental View, with Computer, Printer, Monitor & Stabilizer (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 11 | Coblation treatment unit complete set for ENT Surgery | * OTORHINOLARYNGOLOGICAL THERAPY SYSTEM * Integrated water supply system with warming up function (up to 37° C), * Ergonomically designed waste pond, quiet compressor (almost silently), * Continuous mechanical pressure setting in the extractor and sprayer, ergonomic operator interface, * LCD display with control systems for patient positioning, * Water temperature, instrument warm up etc., * Comfortable surface for storage of patient data * Backrest can be moved up to a horizontal position, which transforms the chair to an operating table, * Automatic system shut down after two hours of continuous operation, * Halogen light source (up to 3 light sources optional), * Ergonomic positioning of the instruments, boxes, drawers and shelves, * Adjustable spotlights with side bracket, adjustable in height and angle, automatic armchair positioning in one of the two positions, which are pre-programmed by the user   Unit Complete with   * Light source with reflector 1 pc * Medicines sprays (2 straight, curved 1) 3 pc * Preheating device for endoscopes, instruments and mirrors 1 pc * Compressed air device for the flushing 1 pc * Instrument tray 6 pcs * Cotton wool holder 1 pc * Medical bottle for oily and aqueous substances 6 pcs * Integrated waste container 2 pcs * Instrument tray with lid 1 pc * Integrated inlet for cold light source 1 pc * Water-supply system with warming up function (up to 37°C) * Air compressor 1 pc * Suction device 1 pc * High quality 1CCD video camera 1 pc * Cold Light Source 1 pc * High quality medical monitor (15”) 1 pc * Sinuscope (30°, 175mm, 7.5mm) 1 pc * Laryngoscope (90, 179mm, mm) 1 pc * Otoscope (0°, 90mm, 4 mm) 1 pc   PATIENT CHAIR   * Headrest, seat and backrest are made of high quality leather, * Fixed head restraint in a comfortable position, * Electro-hydraulic drive with 180° rotation, * Adjustable elbow support, headrest, height adjustment, conversion to an operating table gives the possibility for surgery, foot switch operation, operation of the workstation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 12 | Direct Laryngo scope and Oesophaposcope with light source & forceps (Complete set) | Complete set with all forceps | ManufacturerPakistani | 2 |  |  |
| 13 | ENT Operating Microscope with observer lens picture & Movie Recording facilities | Main Body with motorized zoom (Ratio 1:6)&Motorized fine focusing, Manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Built-in manual Vareo Objective from f = 200mm to 400mm , 1st illumination system 15V/150W halogen coaxial illumination second lamp ready to use. Xenon second illumination system, Floor stand, Equipped with 1CCD Camera with CCU, Beam splitter, Monitor. FDA/CE/JIS certified (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 14 | ENT Unit complete with patient chair & Doctors Stool | Two stage separate system with additional part with space for instruments and used instruments, instrument cabinet is self illuminated with acrylic cover, Compressed air with12 L/min at 2700 RPM and 138 VA, 0,2 to 2,5 bar adjustable, Automatic Suction with Oil-free vacuum pump (150 VA): suction performance 40 l/min, 0 to -0,85 bar, sensor switch for suction hose, electronic and mechanical safety overflow system with antibacterial filter, Ear rinsing system, Autonomous ear rinsing system, Watertank, Surgeon Stool, Patient Stool.FDA/CE/JIS Certified (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number | Manufacturer USA/ Europe/Japan | 1 |  |  |
| 15 | Functional Endoscopic Sinus Surgery (FESS) | Complete with forceps & Debrider & Camera, Monitor & Blades with All Accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 16 | Flexible Nasopharyngoscope | Camera Cl Classic Compact, PAL-camera, camera head + smart box - CVBS/USB II  LED light source LL020, with battery and charger  Nose-Pharyngoscope, high resolution, deflection up 140°, down 140°, 3.2 mm x 300 mm, direction of view 0°, wide angle, soakable and gassterilizable, with ETO-valve, 16 k | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 17 | Head Light | Long operating life, More energy efficient than incandescent, Halogen lamps, Cool beam is safe to touch, Instant light (less than 100ns), Virtually maintenance-free operation, No UV rays, Five-watt Solid State lamp, color temperature 5500 degree Kelvin, 50 Lumens, estimated life of up to 10,000 hours continuous burn, Working Distance : 16 Inch, Spot Size Range : 1.5 to 6 inches Weight : 6 ounces, Battery Run Time : One hour continuous run-time on a fully charged battery, complete with head band & direct power supply.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 7 |  |  |
| 18 | Mastoidectomy Drill with burs(electric) Polishing, Cutting & Diamond Burs of Different size | Hand Piece  Modular high speed hand piece.  Variable speed throttle.  Electric Power Console  Electric Instrument Control Console  Runs two handpieces simultaneously  Integrated irrigation pump  Intuitive graphical user interface  Precise instrument control  Cable for Electric Instruments  Drill attachment  Operating Speed: 30,000 RPM  built-in medium length bur guard.  Round Cutting Carbide Bur, 1.0 mm (1)  Round Cutting Carbide Bur, 1.5 mm (1)  Round Cutting Carbide Bur, 2.0 mm (1)  Round Cutting Carbide Bur, 2.4 mm (1)  Round Cutting Carbide Bur, 3.0 mm (1)  High-Speed Drill Coupler  Operating Speed: 90,000 RPM  High speed for bone sculpting  Well-balanced, high-performance Oral and maxillofacial, plastic and reconstructive surgery  20° Angled Drill attachment  Operating Speed: 30,000 RPM  Torque 7.0 in / oz  The 20° angled drill head with twist locking mechanism is particularly useful for precision bone sculpting, cutting, and drilling procedures in orthopedics and reconstructive surgery.Built-in medium length bur guard. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 19 | Otoscope | Delivers almost twice the field of view at higher magnification compared to standard Otoscope making it easier to visualize the auditory canal and tympanic membrane. Instrument is a significant advance in hand-held otoscopy, providing an improved view for enhanced learning and decision making.• A nearly complete view of the tympanic membrane with approximately twice the field of view and 30% greater magnification than a traditional Otoscope• Better clarity and definition of landmarks• The ability to adjust focus for variable ear canal length or farsighted eyes• Tip grip for secure fastening and ejection of ear specula• Fiber optics produce cool light with no reflections, no obstructionSTANDARD ACCESSORIES.• Main Unit• Built-in throat illuminator• C-cell battery handle FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 5 |  |  |
| 20 | Pure Tone audiometer Machine | PC based Free field, printing system speech discrimination, SQL data base, Air & bone conduction ,Pure tone up to 16 kHz, SISI test, Lüscher test, Langenbek test, Weber / Rinne, Stenger test, Discomfort threshold, Tinnitus determination and – masking, Individual speech tests with own diagrams. Complete with headphones Sennheiser HDA 200,Bone conductor Präcitronic KH 70, Patients button, Microphone for communication with test person, Monitor earphone, Cable set, Laptop with laser black & white printer.FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 21 | Suction Machine | · Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and wall-mounted v-socket x 1. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |  |  |
| 22 | Tympanogram machine | Tymponogram can be within seconds fully automatic Impedance measurement performs. All functions as well as curves and data on an LCD display shown. Hereby the measurement result can be considered before the documentation in misprinting avoided. 3 color LED on probe for indication of the examination. Reflex tone range 00, 1000, 2000 und 4000 Hz bei 85, 95 und 105 dB HL, Probe tone 226 Hz, 85 dB SPL, Built-in printer, Set of air tips. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 23 | 3d OCT with non-mydriatic Retinal camera Fundus Angiography and Anterior segment OCT | SLO based 3 dimension (3D) OCT, All in One system, with RFNL with nominative data base, Retest facility with fundus registration, Cup disk analysis, 3D ONH ( optic Nerve Head) Topography, 3D retinal topography, Pachymetry, Radial scanning, Line scanning, Raster scanning, Built-in micro perimetry, Anterior segment lens, Complete with computer, stand and printer. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 24 | 3d OCT with non-mydriatic Retinal camera Fundus Angiography and Anterior (FAA) segment OCT | 50 degrees fundus view angle, Pupil Size ø 5.2 mm (SP mode 4.3 mm) , Photography Mode X2(digital) ,Color / FA / Red free / Cobalt ,Working Distance 35 mm, Camera EOS digital SLR (18 Mega Pixel), Fixation Target, External &Internal fixation target , Patient diopter compensation –31 D ~ –7 D,  –10 D ~ +15 D (standard), +11 D ~ +33 D, Focus adjustment Split lines, Fine adjustment ,Reflection dots , Panning and tilting range 30 degrees to the left and right15 degrees up, 10 degrees down, Light source Xenon tube for photography, Halogen lamp for observation, complete with Stereo unit, Internal eye fixation unit, Chin rest paper& RICS software . FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 25 | Air puff tonometer | Non-Contact Air Puff Tonometer • Type: on-contact tonometer + Pachymeter • Measurable Range:Non-contact tonometer:0 to 60mmHg Includes automatic shifting between 30 / 60mmHg Non contact Pachymeter:150 to 1300µm • Measuring Increment :Non-contact tonometer:1mmHg Non contact Pachymeter:10µm • Eye Fixation Target :Non-contact tonometer:Inner fixation light / External eye fixation light • Light Source: Non contact Pachymeter: Blue LED • Operation Distance: 11mm from the front of nozzle • Alignment :Full Auto / Auto / Manual • Memory: Max. 10 measurements for each eye • Data output: RS232C, USB, LAN • Power-saving System 5mins. / 10mins. / 15mins. / OFF (4 levels selectable) • Display: Tilt able 5.7-inch color TFT LCD monitor • Printer: Thermal line printer with auto cutter • Power Supply: AC100 - 240V, 50 / 60Hz, 0.4 - 0.8A • Operating Range: Front / back:40mm Left / right:90mm Up / down:30mm • Components, Main unit: 1  Nozzle cap: 1 Chin rest paper: 100 sheets Printing paper: 2 rolls Power cable: 1 Dust cover: 1 FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 26 | Digital Photographic Attachment for Slit Lamp | DC-3, 8M pixel | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 27 | Lenstar Complete Optical Biometry | Non-Contact Optical Biometer with IOL Toric planner | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 28 | Ophthalmic Unit with Projector | • Sliding table top for two instruments • Control Pannel for instruments and chair. • Prima chair with electrical height adjustment with either black skai or grey dotted skai upholstery. • Ophthalmic unit is equipped with a anti-dust foldaway drawer, site | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 29 | Ophthalmic Unit | Rondo with Prima Chair & Projector | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 30 | Multi wave Length Pattern Scanning laser (577nm & 610nm) | Laser power output for Yellow is 2W &Red is 700mW .Optically Pumped Dual Diode Solid State system, Scan Patterns are Single, Line, Square (2x2, 3x3, 4x4, 5x5), Macular Arc (Single, double, triple, 1/4, 1/2, 3/4),Circle and Triangle - Spot width, density and 360 degree rotation available for each pattern, Integrated slit lamp, with elevated stand.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 31 | Pascal Pattern Scan Laser Photocoagulation (Green) | Pascal Synthesis 532nm (Green) with D4 Slit Lamp | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 32 | Video System with X-Y Translator for Operation Microscope | Beam Splitter Beam splitter 50 / 50 for the attachment of documentation devices. TV Relay Lens Provides a mount to attach color video camera  Color video camera 1 CCD color video camera a clear, sharper and high resolution Image Provides 2,100,000 pixels | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 33 | Birth Simulator | Lead Instruments LM 63A R 10180 R 10186 (Fetus + Pelvis) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 34 | CTG Machine | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 35 | Delivery table with poles | Heavy Duty M.S . Structure Powder Coated, Synthetic Leather Upholstery, Extension Auxiliary Table, Complete with Back rest & Knee rest support, Telescopic I.V. Pole of S.S. four Antistatic Castor Wheels, Stainless Steel Bowl, Leg Support Size. 6' x 2' | ManufacturerKorea/Taiwan/China | 4 |  |  |
| 36 | Hospital UV Disinfection System | The system should comply with NFPA 99 and EPA standards Establish No: 89568-IN-001/89568-IL-001  The system should be free from by-products i.e. Ozone or secondary decontaminant so that the OTs or ICU can be occupied immediate after the use.  The system should be mounted on UV- energy resistant base and also should have large diameter castors for easy mobilization.  The unit should have double protective covers for lamps as door barrier for safe exit or entrance of the unit.  They system must have wireless remote control system that allow the user to monitor the status of disinfection cycle without entering the room.  The life of the lamps should not be less than 12000 hours.  The unit should be equipped with a 360° motion and heat sensor not intended for use as primary safety device system.  The unit should have an emergency stop system on the base to provide a quick and safe way to shut off the UV lights.  The system should have at least four pre-programmed UVC cycles- (Bacteria/Virus at distance 2.5 to 4.5 meter should take 4 to 9 minutes per cycle time and Bacteria spores at distance 2.5 to 4.5 meter should take 11 to 25 minutes per cycle time)  Technical Data  Internal fuse rating 20 Amp  Power cable length at least 4.5 meters or better  Lamp type: GML 515  Lamp quantity: Minimum 24  The length of each lamp: at least 40” or better  Controller rechargeable battery life: 8 hours | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 01 |  |  |
| 37 | Electric Hot Air Oven | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 38 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 39 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified. | 2 |  |  |
| 40 | Auto Clave | Any | Any | 1 |  |  |
| 41 | Hot Air Oven (Electric) | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 42 | Laparoscope | HD LAPAROSCOPE (MINIMAL ACCESS SURGERY) FOR GENERAL SURGERY  HD Telescope  HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 30 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT WITH BUILT IN RECORDING SYSTEM (PAL SYSTEM)  Latest Technology 3chip HD video Camera system with built in recording system 164 GB to 300GB  data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board and USB  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste  MEDICAL GRADE LED MONITOR  Medical grade HD 26” LED or more  Resolution 1920 x 1080 pixel with Aspect ratio 16:9  Average Brightness 600cd/m2  45 LITER LAPAROFLATOR  Microprocessor controlled automatic preselectable intra-abdominal pressure range 3-30mmHg  with Maximum gas flowrate atleast 45 L / min. with external Gas filter  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Neonatal Mode and smoke evacuation facility  Facility to connect CO2 bottle and Central Gas Pipe line System  Pressure gas flow rate and gas consumption display digital  External gas filter for test the CO2 gas  Indication for CO2 reserve pressure  Imported Gas cylinder (02)  SUCTION / IRRIGATION UNIT  Suction / Irrigation system upto 3Liter/ min and aspiration performance 20l/min  System complete with standard Accessories and operating manual  TROLLEY  Trolley mounted fabricated lockable wheels with dust cover for whole system with transformer same manufacturer  VOLTAGE STABILIZER  Servo motor type with spike protractor suitable for the above equipment.  STORAGE BOX  Storage box for instruments and optics of the same manufacturer as that of the instrument and optics  BASIC MINIMAL ACCESS REUSABLE INSTRUMENTS SET.   |  |  |  | | --- | --- | --- | | S# | Description | Qty | | 01 | 5-5.5 mm Trocar and cannula | 02 | | 02 | 10-11 mm Trocar and cannula | 02 | | 03 | Grasper 10 mm toothed and non-toothed | 01 Each | | 04 | Grasper 5 mm toothed and non-toothed | 01 Each | | 05 | Dissecting forceps 5 mm straight and curved | 01 Each | | 06 | Dissecting forceps 10 mm straight and curved | 01 Each | | 07 | Medium large clip applicator | 01 | | 08 | Reducing sleeves 10-5 mm | 02 | | 09 | L-hook | 01 | | 10 | Diathermy electrode L-hook 5 mm | 02 | | 11 | Spatula electrode Ø 5 mm | 01 | | 12 | Straight scissors insulated 5 mm | 01 | | 13 | Hook scissors insulated 5 mm | 01 | | 14 | Aspiration needle 5 mm | 01 | | 15 | Needle holder 5 mm | 01 | | 16 | Suction and irrigation tube with blunt | 01 | | 17 | Bipolar Grasping Scissors Straight and Curved Jaws | 01 | | 18 | Biopsy forceps insulated 5mm | 01 | | 19 | Gallstone scoop forceps | 01 | | 20 | Endo Retractor Ø 10 mm, fan shape | 01 | | 21 | Knot pusher | 01 | | 22 | Bipolar diathermy electrode | 01 | | 23 | Monopolar and Bipolar Connection Cable | 01 Each | | 24 | Cleaning Pistol, Complete with eight adaptor Special oil for Instrument care, Cleaning brush Ø 5mm and Cleaning brush Ø 10mm | 01 | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 43 | Neonatal Resuscitation Trolley | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flowmeter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 44 | Suction Machine | Mobile suction pump Oil-Less Piston along with 4 anti-static wheels with lock convenient for operation and delivery, with following performance features: Built-in Vacuum gauge with a range from: 0-760 mm Hg adjustable. Flow capacity:- 40-50 liter per minute Explosion proof foot switch. Capacity of two graduated suction bottle.3,000 cc each. Heat resistant and disinfect able rubber tube for suction. Over flow safety device. Power requirement: 220/240V, 50 Hz. Complete with standard accessories withspare bottle | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 45 | Hysteroscope | HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 4 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT With Built In Recording System (PAL SYSTEM)  Latest Technology HD video Camera system with built in recording system 164 GB to 300GB data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with automatically intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 6500K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable tester  COLOUR MONITOR LCD 19”  LAPAROFLATOR 20 L/M  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Microprocessor controlled automatic preselectable intra-abdominal  pressure range 3-30mmHg  Maximum gas flowrate atleast 20 L / min.  Neonatal Mode and smoke evacuation facility  Variable insufflation low to high with actual intra-abdominal  Bariatric mode and Neonatal mode  Indication for CO2 reserve pressure  Accessories:  Veress needle, high pressure tubing, gas cylinder (1No.)  Irrigation Pump for Hysteroscopy  Trolley mounted fabricated lockable wheels and dust cover for whole system from same manufacturer  INSTRUMENTS SET.  Sheath for continuous irrigation  Monopolar connection cable 5m  Working element passive cutting  Loop electrode angle  Ball point electrode Ø3mm  Ballpoint electrode Ø5mm  Knife electrode  Biopsy forceps semi rigid 5CH  Scissor semi rigid 5 Ch  Myom fixation instrument 340mm | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 46 | Auto Coagulation Analyzer | 2-CHANNEL COAGULOMETR FOR ALL CLASSICAL CLOTTING METHODS •Optical system •Quarter volumes •PT- derived Fibrinogen •Automatic Optic Start (AOS) TECHNICAL DATA: •Display LCD 4 x 20 characters •Interface RS232 + printer connection •Thermal printer, width of paper 111 mm •Dimensions: 260 x 190 x 130 •Weight: 3 kg | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified / | 1 |  |  |
| 47 | Hb 1Ac |  |  |  |  |  |
| 48 | Decontamination instrument | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 49 | Five Part Auto Hematology Analyzer | 18 or more hematological parameters .WBC, RBC, and PLT. Colored display WBC-LYM#-MID#- GRN#LYM%-GRN%- HGB-RBC-HCT-MCVRDW- MCH-MCHCPLT- MPV-PCT-PDWWBC, RBC and PLT histogram Alarm system with auto diagnostic capabilities  50 or more samples/hour capacity. Blood sample volume 25ul  RS232 interface  FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 50 | GEL Documentation system | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 51 | Imunoluminesce auto Hormone Analyzer | Sample data base 2.000 tests for routine, STAT and control results Test methods Pre-defined assay protocols (sandwich, competitive, titration) Calibrator/QC Input Via rack or sample disk Calibration methods “Upon QC failure” triggered 2-point calibration per lot or per cobas e-pack QC methods Individual QC + cumulative QC Preventive QC after calibration Electrical requirements Power requirements: 100 –120 VAC 50/60 Hz single phase or 200–240 VAC 50/60 Hz single phase Power consumption 800 VA Water/waste requirements Water container 3 Liters Water requirements 10μS/cm or 0.1 mega Ohm, bacteria-free Water consumption approx. 3 L for 250 tests approx. 12 mL/cycle Regulatory requirements GS, CE, UL, C-UL, CB-report and certificate Operating conditions Ambient temperature: 18 to 32 °C (64.4 °F to 89.6 °F) Ambient humidity: 20% to 80% Noise Output: 60 dbA (stand-by mode) 63 dbA (avg. during operation) Physical dimensions Width: 1200 to 1700 mm (disk/rack) Depth: 730 to 950 mm (disk/rack) Height: 560 mm (w/o PC unit) Weight Approx. 170 kg (disk) and 210 kg (rack) FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 52 | Micro scope | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 53 | Emergency Point of Care | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 54 | P.C.R. Electrophoresis | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 55 | Thermal Cycler | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 56 | Crash Emergency Trolley | Trolley with over top shelf, made of 20g M. S. Sheet, upper two drawers of size 25” x 3.5” & lower two drawer of size 25” x 6”. Lower portion having flip up door cupboard size 25” x 13” controlling central locking system. Cabinet size 27” W x 18 d x 37” h, with 3” wheels and bumper all around ht 42”. Stainless steel top with ¾” raised edges all around and one push handle. One cylinder bucket, I.V rod SS in “W” shape hook, two SS hooks. Imported Or Best Imported Quality | Imported or Local Export Quality | 2 |  |  |
| 57 | Gastrointestinal Endoscope | HIGH RESOLUTION GASTROINTESTINAL VIDEOSCOPE with standard set of accessories. Field of view: 140° Direction of View: 0° Farward Depth Of Field: 3-100mm Outer Diameter: 9.2mm Angulation Range Up 210°, Down 90° Right 100°, Left 100° Working Length 1030mm Inner Diameter: 2.8mm Mimimum visible distance 3.0mm RESOLUTION COLONO VIDEOSCOPE with standard set of accessories. Field of view: 140° Direction of View: 0° Farward Depth Of Field: 3-100mm Outer Diameter: 12.8mm Angulation Range Up 180°, Down 180° Right 160°, Left 160° Working Length 1680mm Inner Diameter: 3.7mm Mimimum visible distance 3.0mm Video signal output Y/C, RGB, AND VBS composite; simultaneous output is possible White balance White balance adjustment is possible using the white balance adjustment switch on the front panel. Color tone adjustment "R" control: +/- 7 steps "B" control: +/- 7 steps Iris mode selection Average: Normal observation Peak: When focusing on and/or observing a small bring area. Image enhancement Fine patterns or edges in the endoscopic image can be enhanced electrically to increase the image sharpness. Setting Either the structural enhancement or edge enhancement can be selected. Patient data The following data and modes can be displayed on the video monitor using the keyboard. Items: 1. ID number 2. Patient name 3. Sex Age 4. Date of birth 5. Date /Time built in clock 6. fram no. 7. VTR condition 8. Zoom Ratio 9. Comments. Compatible High Resolution Medical Grade 21" Compatible 24" Color LCD Monitor Local Trolley Local Video Trolley with anticastor and keyboard drawer (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 58 | Small Equipment | Any | Any | 1 |  |  |
| 59 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |  |  |
| 60 | CRT panels | Any | Any | 5 |  |  |
| 61 | Fine General Instrument | Any | Any | 1 |  |  |
| 62 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. | Imported or Local Export Quality | 20 |  |  |
| 63 | Interlocking Nail Tibid | Any | Any | 10 |  |  |
| 64 | Scotch Cast | Any | Any | 3 |  |  |
| 65 | Sterillium with bottles & Holders | Any | Any | 15 |  |  |
| 66 | U/V Light | Any | Imported or Local Export Quality | 2 |  |  |
| 67 | Anesthesia Machine Fully Loaded | ANESTHESIA WORK STATION MACHINE WITH TWO VAPORIZER  3 Gas anesthesia workstation, O2, N2O and Air  Up to 1 x O2, and 1 x N2O cylinder can be connected  Pipeline/ Fittings/Gauges for central piping  1 x O2, and 1 x N2O Yokes & Gauges for Cylinders  1 x O2, and 1 x N2O and 1 x Air Pipeline, Pipeline fitting and pressure Gauges  Main working surface  1 x Monitoring shelf  1xSide folding shelf  Single O2 High pressure outlet/ Auxiliary O2/ Gases outlet  O2 Flush  Common gas outlet  Side rails and centrally braked castors with large brake paddle  Common Gas outlet  Side rail and castors with braked peddle  3 x Drawers  Scavenging System  Venturi Suction  1 KG Circle/ O2 absorber, fully autoclave, including Bag/ Vent switch, CO2 by pass and manometer gauge, complete with mounting bracket, disposable patient circuit, absorber detachable including Y- piece circuit, bag and fresh gas assembly  1 x Bag Arm  2 station selectatec Back bar to accommodate up to two vaporisers  1 x vaporiser, selectatec Type Tec 7 or equivalent, Isoflurane  1 x vaporiser, selectatec Type Tec 7 or equivalent, Sevoflurane  2 Pin Index Cylinder for O2  2 Pin Index Cylinder for N2O  Electronic/ Digital Flowmeter  Three gas Configurations (O2, N2O and Air)  Flow Range  O2 and Air: 0 to 12LPM  N2O:0 to 12 LPM  Total Flow meter 0 to 10 LPM Calibrated to O2  Peramagnetive type  Mechanical Hypoxic Guard for minimum of 25% O2/ Auxiliary flow meter  ANAESTHESIA VENTILATOR  Microprocessor Controlled anaesthesia ventilator  Full color 12” LCD/TFT Touch screen display  Automatic Leak and compliance Test  Fresh Gas and Compensation  Ventilation modes:  Manual/spontaneous  Volume control (IPPV)  Pressure control (PCV)  Pressure Controlled Ventilation Volume Guaranteed(PCV-VG)  Synchronized Intermittent Mandatory Ventilation in volume(SIMV-VC)  Synchronized Intermittent Mandatory Ventilation in pressure(SIMV-PC)  Pressure support (PS) with Apnea backup  Oxygen (FiO2) inspired & expired volumes, PAW, Pressure  Real time wave form for Flow, Volume & Pressure  Tidal Volume: 20 – 1500ml  IR Ratio: 4:1 -1:8  Frequency: 2-100bpm  Minute Volume: 03- 25LPM  Pressure limit: 10-70 cmH2O (Adult) & 10 – 50cmH2O (Paeds)  PEEP: 3 – 30cmH2O  Patient trigger: 1 – 15 LPM  Battery backup 120 minutes  User/ Alarms: High/ low Pressure: High/ Low minute volume.  High/ Low breath per minute (BPM) high/ Low Oxygen  Static Alarm: Apnea, settings Error, Low supply Gas  Inspiratory Flow Transducer Error, No Charge, Fresh Gas Too high, Ventilator Inoperative, Under pressure, Peep Error/ Sensor Error, power fail, Battery low  Apnea alarm in bag mode  VITAL SIGNS MONITOR  Modular Monitoring of vital signs of pediatric and adult patients  OPERATING FEATURES AND CHARACTERISTICS  Non fade display  Modular architecture, Different modules can be added later  Screen size 17” LCD/ TFT touch screen color display  Electro Surgical interference suppression/ Protection  Defibrillator protection  Pacemaker detection  Freeze and cascade facility  Adult & pediatric modes of operation, detection and alarms for all parameters  Minimum 12 waveforms for all required parameters  Waveform Trace speed: 6.25, 12.5, 25 and 50mm/sec  Compatible with central monitoring system trough wireless/ hardwire  Vital signs monitor have the capacity to measure  2IBP, ETCO2 at the same time.  STANDARD PARAMETERS:  ECG, NIBP, SpO2, 2 – Temperature, Respiration, Trends, Arrhythmia Analysis, 2-IBP, EtCO2(Capanography)Recorder  STANDARD PARAMETERS:  ECG:  Differential input protected against defibrillator  ECG cable with 3-5 Lead wires  Lead selection: 6 positions (Lead I, II, III. Avf, avr, avl) and V (chest leads)  Selectable Adult and pediatric operation modes  Diagnostic ECG Measurement with 10 lead wires patient cable for 10 or more ECG waveform. With 7 lead ECG wave form displayed at same time  Ability to detect adult &pediatric heart rate range, QRS widths and amplitudes  Numeric: Heart rate range 20-250bpm  Waveform real time  Lead off detection alarm on lead failure  Variable gain selectable ½, 1, 2 cm.mv  Heart beat indication beep/ tone with QRS detection  NON INVESIVE BLOOD PRESSURE (NIBP)  Method oscillometric principle  Numeric: Systolic, Diastolic and mean pressure  Rising Cuff/ Continuous pressure display  Ability to measure adult & Pressure display  Ability to measurement adult & pediatric BP range  Cuff for Adults and pediatrics patients  Cuff Pressure range 300mmHg  Selectable Pediatric and Adult operation mode  Selectable Pediatric and Adult initial and maximum cuff pressure and range  Selectable auto inflate interval settings  TEMPERATURE:  Numeric: Temperature selectable in 0C/ 0F  Channel: 2 channel or more  Two Temperature channel with probe (External and rectal)  Ability to measure adult & pediatric temperature range  PULSE OXIMETER:  Numeric: % Oxygen Saturation  Range : 0-100%  Numeric Pluse rate: 20-250 beat per min  Waveform: Plethysmograph pulse with strength indication  Sensor for Pediatrics & Adult patients  RESPIRATION  Impedance method using ECG leads for sensing  Respiration rate (RR): 1-150bpm  Ability to measure pediatric & Adult breathing rate range  Sweep speed: 6.25,12.5mm/sec  Settable apnea Alarm  RECORDER  2Channel recorder for printing of ECG waveforms  INVASIVE BLOOD PRESSURE MODULE  Two Channels  Numeric: Systolic, Diastolic and Mean pressure  Waveform: blood Pressure  Variable scale selectable  Adjustment: Zero adjustment for offset compensation  ARRITHEMIA ANALYSIS  View arrhythmia: 128 groups alarms + trends  View alarms: 128 groups alarms (audio+visual)  Full disclosure waveforms for 3 waves (24 hrs.)  TRENDS:  Trends for at least 168 hours with graphical tabular representation for all parameters  ALARMS  Selectable automatic adult and Pediatric mode alarm limits  High and Low (settable) on all parameters  Visual and Audible indication of alarms  Built in rechargeable battery with backup of at least 2 hours in case of AC power failure for full parameters.(02 battery for 2 hours)  Mounted with Anaesthesia workstation  STANDARD ACCESSORIES OF VITAL SIGNS MONITOR:  Adult finger sensor (Reusable)  MULTI GAS AGENT MONITORING MODULE | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 68 | Auto clave Horizontal | Any | ManufacturerKorea /Taiwan/China | 1 |  |  |
| 69 | Bed Side Locker | 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.  Local / Imported best quality iron made | Imported or Local Export Quality | 15 |  |  |
| 70 | Bone Drill (Pnaractic/Ortho) | Pneumatic Bone Drill System with Accessories (1 Nos)  Complete Pneumatic Drill System Consisting of:  Handpiece, Variable Speed Trigger allows for precise control. (1)  Power source compressed air  Nitrogen: 99.95%  Operating pressure 5-7 bar  Operating speed: 1,600 RPM. Torque 135 in. oz.  Fully autoclave able up to 3 bar over pressure 134°C  One hand operation “Forward / Reverse control” right on instrument base.  5/32” Jacobs Coupler Quick coupling connecting system. (1)  1/4" Jacobs-Style High-Torque Reamer Coupler. (1)  Nitrogen Regulator Single Output (1)  Air Hose with Hall/Zimmer connector, 10 foot length. (1)  Automatic Wire Driver for Accepts wire 0.7mm – 1.6mm (1)  Operating Speed 1600 RPM  Automatic Pin Driver with coupler (1)  Automatic Wire Driver with coupler, (1)  Operating Speed1600 RPM  Standard JACOBS Twist Drills different size (10)  Heavy-Duty Sagittal Saw Coupler (1)  Operating Speed 18,000 CPM  Reciprocating Saw Coupler (1)  Operating Speed 16,000 CPM  Reciprocating Saw Blade (10)  Supplied with different size blades (10)  Pulse Lavage coupler for Hand Piece (1)  Pulse Lavage instrument with Hall Style Hose connector (1)  Complete with Small, Medium, Large Splash, Shield, Nozzle with suction  Shawerhead nozzle with suction Tubing set with suction  Sterilization Case to holds 1 hand piece, Hose, 11-couplers, 1 pin collet & 1 wire collet (1) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 71 | Broncho Scope | Field Of View 120 deg Direction Of View Forward Depth of Field 3-50mm IT Diameter 5.0mm Up 180 deg Down 130 deg Working length 60cm Total Length 89cm Channel size 2.2mm | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 72 | NIBP | Cuff Pressure Range: (Normal operating range)  0 to 290 mmHg (adult/ped)  0 to 145 mmHg (neonate)  Maximum Determination: 120 s (adult/ped)  85 s (neonate)  Overpressure Cutoff: 300 to 330 mmHg adult  pead  150 to 165 mmHg  (neonate)  Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate)  MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate)  Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate)  SpO2  Measurement Range  SpO2: 1 to 100%  Pulse Rate: 30 to 250 bpm  Perfusion Range: 0.03 to 20%  Adult: 70 to 100% +/-2 digits  Whichever is greater (without motion)  Neonate: 70 to 100% +/-3 digits (without  motion)  Adult/Neonate: 70 to 100% +/-3 digits (during  clinical motion)  Low Perfusion: 70 to 100% +/-2 digits (during  clinical low perfusion)  Pulse Rate  Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)  Low Perfusion: 30 to 250 bpm +/-3 digits  Battery  Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.  Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.  Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 73 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 74 | Dressing Bag Sets |  | Any | 30 |  |  |
| 75 | Dressing Drums For Auto Clave |  | Any | 10 |  |  |
| 76 | ECG Monitor |  | Any | 2 |  |  |
| 77 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. Imported Or Best Local Quality | Imported or Local Export Quality | 20 |  |  |
| 78 | General Set | General Surgery Set General Surgery Set Complete in All RespectBowl Lotion 250 mm (2 Nos)Gallipot/Cup S/S 180 ml (2 Nos)Gallipot/Cup S/S 250 ml (2 Nos)Tray Kidney shape with Lid S/S 200x30 mm (2 Nos)Tray Kidney shape with Lid S/S 300x50 mm (2 Nos)Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos)Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos)Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos)Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos)Forceps Towel Holding cross Action S/S 100 mm (8 Nos)Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos)Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos)Handle size 3 for scalpel blades size 10-15 (1 Nos)Handle size 4 Scalple blades size 20-24 (1 Nos)Needle Holder Kilner’s 165 mm (1 Nos)Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos)Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos)Scissors Mayo’s CO Flat 200 mm S/S (1 Nos)Scissors Mayo’s Straight 200 mm S/S (3 Nos)Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos)Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos)Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos)Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos)Retr. Walton, malleable copper 13mm length 305mm (1 Nos)Needle Aneurysm S/S. Small 146 mm (1 Nos)Pin Safety Mayo, forceps holding, 120mm (4 Nos)Suction Tube Mclndoe (1 Nos)Suction Tube Poole’s S/S 225 mmSterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm.Made from imported stainless steel, Rust resistant and Satin finishLocal Manufacturers only can Participate directlyMust be CE Marked Product/ Export Quality | Any | 6 |  |  |
| 79 | Gum Elastic Bogies | Any | Any | 3 |  |  |
| 80 | Head Light ENT | Long operating life, More energy efficient than incandescent, Halogen lamps, Cool beam is safe to touch, Instant light (less than 100ns),Virtually maintenance-free operation, No UV rays, Five-watt Solid State lamp, color temperature 5500 degree Kelvin, 50 Lumens, estimated life of up to 10,000 hours continuous burn, Working Distance : 16 Inch, Spot Size Range : 1.5 to 6 inches Weight : 6 ounces, Battery Run Time : One hour continuous run-time on a fully charged battery, Complete With Head Band & Direct Power Supply. FAD/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 81 | Hot Air Oven | Dust-Free Gravity-Flow convection , Ideal for drying, conditioning, Sterilizing and quality control even the most laboratory application temperature between ambient to 250°C maximum Digital PID control Membrane type touch key pad provides precision temperature control, timer, alarm, and auto-tuning (Option: automatic on/ off function) Safety and convenience: Over temperature and current protection, leakage breaker ensures user safety and adjustable sliding rack, silent fan motor automatically stops when door is opened. Rapid Heat up 25 min up to 250°C, Digital Timer built-in Controller Provide a efficient and convenient use and operation , Dimensions Inner 400 x 350 x 400 (W x D x H mm) Outer 545 x 500 x 770 , Capacity: 56Liters, Heater 1.5 kW , Temperature Range Ambient + 5°C to 250°C Accuracy + 1.0°C , Uniformity + 3.0°C at 120°C 3 , Convection Natural Convection Controller PID Multi-Function Controller, Alarm, Auto tuning , Timer Automatic timer 0-99 min, 99hr continuous, Material Inner Stainless Steel (SUS 304) , Outer Steel with epoxy powder coating, Shelves Adjustable 2 or 3 shelves Insulation Glass Wool, Electric Supply 110V, 60Hz or 220 V, 50/60Hz with solid schuko plug | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 82 | Instrument Trolley | Any | Imported or Local Export Quality | 8 |  |  |
| 83 | Laparoscope set | HD LAPAROSCOPE (MINIMAL ACCESS SURGERY) FOR GENERAL SURGERY  HD Telescope  HD Optimized LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 10 mm dia. 30 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 0 degree  HD LAPAROSCOPIC TELESCOPE (Autoclavable) 5 mm dia. 30 degree  HD VIDEO CAMERA AND CAMERA CONTROL UNIT WITH BUILT IN RECORDING SYSTEM (PAL SYSTEM)  Latest Technology 3chip HD video Camera system with built in recording system 164 GB to 300GB  data storage capacity.  User setting can be store with freezing facility  Weight camera head 150g or less  Full HD Resolution 1920 x 1080 pixels  TV Zoom adapter f 15 to 36mm  Waterproof key board and USB  Accessories connection cables for operation and documentation  LED LIGHT SOURCE  LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste  MEDICAL GRADE LED MONITOR  Medical grade HD 26” LED or more  Resolution 1920 x 1080 pixel with Aspect ratio 16:9  Average Brightness 600cd/m2  45 LITER LAPAROFLATOR  Microprocessor controlled automatic preselectable intra-abdominal pressure range 3-30mmHg  with Maximum gas flowrate atleast 45 L / min. with external Gas filter  Unit integrated CO­2 Heater with heating tube (Heating Tube autoclaveable)  Neonatal Mode and smoke evacuation facility  Facility to connect CO2 bottle and Central Gas Pipe line System  Pressure gas flow rate and gas consumption display digital  External gas filter for test the CO2 gas  Indication for CO2 reserve pressure  Imported Gas cylinder (02)  SUCTION / IRRIGATION UNIT  Suction / Irrigation system upto 3Liter/ min and aspiration performance 20l/min  System complete with standard Accessories and operating manual  TROLLEY  Trolley mounted fabricated lockable wheels with dust cover for whole system with transformer same manufacturer  VOLTAGE STABILIZER  Servo motor type with spike protractor suitable for the above equipment.  STORAGE BOX  Storage box for instruments and optics of the same manufacturer as that of the instrument and optics  BASIC MINIMAL ACCESS REUSABLE INSTRUMENTS SET.   |  |  |  | | --- | --- | --- | | S# | Description | Qty | | 01 | 5-5.5 mm Trocar and cannula | 02 | | 02 | 10-11 mm Trocar and cannula | 02 | | 03 | Grasper 10 mm toothed and non-toothed | 01 Each | | 04 | Grasper 5 mm toothed and non-toothed | 01 Each | | 05 | Dissecting forceps 5 mm straight and curved | 01 Each | | 06 | Dissecting forceps 10 mm straight and curved | 01 Each | | 07 | Medium large clip applicator | 01 | | 08 | Reducing sleeves 10-5 mm | 02 | | 09 | L-hook | 01 | | 10 | Diathermy electrode L-hook 5 mm | 02 | | 11 | Spatula electrode Ø 5 mm | 01 | | 12 | Straight scissors insulated 5 mm | 01 | | 13 | Hook scissors insulated 5 mm | 01 | | 14 | Aspiration needle 5 mm | 01 | | 15 | Needle holder 5 mm | 01 | | 16 | Suction and irrigation tube with blunt | 01 | | 17 | Bipolar Grasping Scissors Straight and Curved Jaws | 01 | | 18 | Biopsy forceps insulated 5mm | 01 | | 19 | Gallstone scoop forceps | 01 | | 20 | Endo Retractor Ø 10 mm, fan shape | 01 | | 21 | Knot pusher | 01 | | 22 | Bipolar diathermy electrode | 01 | | 23 | Monopolar and Bipolar Connection Cable | 01 Each | | 24 | Cleaning Pistol, Complete with eight adaptor Special oil for Instrument care, Cleaning brush Ø 5mm and Cleaning brush Ø 10mm | 01 | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 set |  |  |
| 84 | Laryngeal Master | Any |  | 4 |  |  |
| 85 | Operating Micro Scope for Surgery | Main Body with motorized zoom (Ratio 1:6)&motorized XY compiling, manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Objective lens f = 200mm(APAO), 15V/150W halogen coaxial illumination second lamp ready to use. Floor stand. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 86 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 87 | Operation Table | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * Accessories * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   OPTIONAL  Orthopedic Attachment should be quoted separately | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 88 | Pnoco metic Turnigent | Any | Any | 2 |  |  |
| 89 | Pulse Oximeter | Any | Any | 4 |  |  |
| 90 | Resuscitation Trolley (Baby) | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flowmeter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 91 | Photodynamic Tumor Therapy Laser Therapy | Photodynamic Tumor Therapy Laser Therapy System to be used for, Lymph metastases, Breast cancer, Lung metastases, potentially all kinds of inner tumors, depending on size and location  The unit should be capable for, Selective targeting of tumor cells, Minimal side effects, No resistance after repeated treatments, Tumor vascular shutdown by thrombosis and haemorrhages, Induction of local inflammation, Immune activation through IV blood irradiation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 92 | Trachial dilator Buges Set | Any | Any | 1 |  |  |
| 93 | TURP Set | Telescope, Inner sheet, working element | Any | 1 set |  |  |
| 94 | Ventilator MP3 | Any | Any | 2 |  |  |
| 95 | Bed Side Locker | 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.  Local / Imported best quality iron made | Imported or Local Export Quality | 30 |  |  |
| 96 | Beds with Mattress | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  Mattress (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  Bed Side Cabinet (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  Over Bed Table (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: Complete Package from same manufacturer | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 30 |  |  |
| 97 | Examination Couch | Frame work made of Round 32mm 16SWG M.S Tube. Back rest section adjustable on ratchet / lever up to at least 45 degrees. Legs fitted with PVC stumps. Cushion 5 cm foam (life time Guarantee) covered with "A" class rexene / leatherette. Epoxy Powder Coated Finish | Imported or Local Export Quality | 4 |  |  |
| 98 | Heater | Electric Heater with Oscillation and Fan, CE certified | Any | 2 |  |  |
| 99 | Incubator | Microprocessor controlled unit with digital display of set Incubator hood Double wall door at front and back  Bed surface 62x 35cm with mattress tiltable head and foot end.  Integrated X-Ray tray to accommodate X-Ray cassettes from outside without moving the baby  5 Elbow hand port one iris diaphragm and access holes.  Noise Level inside the hood 47dbA  X-Tray compatible hood/ Mattress with tray  Temperature regulation  Air temperature setting range: 20-37°C override 39° C  Skin Temperature setting range: 24-37.5°C override 39°C  Display resolution 0.1 0C  Humidity regulation  Alarm Safety signals  Visual and audible battery buffered/ powered alarm for skin and air control temperature deviation, over temperature skin. Over temperature air control, Humidity control, Fan failure  Cabinet base/ Drawer unit  Lockable antistatic casters.  Weighing Scale  Accessories  Air sensor  Skin Sensor  Humidity sensor  Replaceable bacteria filter  Mattress with cover | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 100 | Phototherapy unit | Blue light tube: 6 x 18W  Blue light wavelength, mounted in a canopy  Special output: Therapeutic range at wavelength range 420-480nm.  UVA level (315 nm – 400 nm) <1,000 W/cm²  UVB level (280 nm – 315 nm) <1,000 W/cm²  Steel body frame adjustable stand in height angle tilt  Height adjustment from 1400 m to 1600 mm.  Dual timing system keeps track of both patient exposure time and bulb life  Free standing unit based on 4 -wheel roller-stand, 2 lockable castors  Power supply: 220 – 240 V ac, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 5 |  |  |
| 101 | Pulse Oximetery with neonate probe | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | ManufacturerKorea/Taiwan/China | 1 |  |  |
| 102 | Resuscitator Trolley | Microprocessor based servo controlled heating system.  Open intensive care system for pre mature and new born  Two modes skin or manual mode  Control unit with user’s instructions in colour codes.  Manual heat output control: 0% to 100%  Skin temperature setting range:34- 37 OC / Override 39 OC  Display range LCD 30-42 OC  Heating power: 700 W Quartz  Switch for operation modes skin or manual control.  Pivot arm technology heating head can be moved 900 in both directions allowing X-Ray procedure without moving the baby.  Integrated observation lamp.  Secured plexiglass side panel foldable down with grid for X-ray,  X-ray Tray baby lying surface 760 x 480 mm, Bed inclination ± 100  Combined O2 humidifier with venture suction complete including flow meter and suction bottle. Corrugated tube for O2 connection hose.  Venturi suction complete including suction jar, O2 flow meter, Oxygen hose  Audio Visual alarms  Battery buffered, Power failure, Skin temperature deviations  High temperature, Skin probe defective / un plugged  Plexiglas side panels foldable down with grid for X-ray positioning  Venturi suction complete including suction jar, O2 flow meter, oxygen hose  Unit Mobile based with ground plate, bumper guard, 4 antistatic castors two with lockable.  Unit complete with  O2 hood  IV pole  Skin probe  Fitting rail | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 103 | Electric Stimulator | Unit to be well designed with an easy to read control panel. All parameters to be displayed clearly in digital form to eliminate risk. To have a built in micro processor to monitor and control all functions, to carry out a self test programme each time the unit is switched on. Unit to offer low frequency electrotherapy and 9 types of current for various treatments. These currents to be: Galvanic surge, Rectangular pulsed, 2-5 current according to Trabert Triangular pulsed current MF - Monophase fixe DF - Diphase fixe LP - Longues Periodes CP - Cpourtes Periodes CP-id CP isodynamique Facilities to include continually adjustable pulse duration, faradic surge and timer with automatic switch off and alarm. | ManufacturerKorea/Taiwan/China | 1 |  |  |
| 104 | SW Diathermy | The unit to be mobile with two detachable jointed electrode arms. · To have continuous and pulsed short wave with high peak power. · To have a patient safety cord which automatically switches off the machine and an audible timer alarm which also turns off the machine. · The following frequencies to be available: at 65 microseconds pulse width of 15, 25, 50, 100, 300, 400, 500 and 600 Hz and at 400 microseconds pulse width of 15, 25, 50, 100 and 200 Hz. To be supplied with standard accessories: · 2 electrode connection cables, · 2 electrode cable clamps, · 2 condenser electrodes 85 cms diameter, · 2 flexible rubber electrodes 26 x 25 cms with felt spacers and straps · Neon testing tube. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 105 | T.E.N.S. | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 106 | Ultrasonic | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 107 | Printer Laser for CT SCAN Films | DICOM LASER printer with throughput of 45 sheets of 14x17/hr. Minimum 325 dpi resolution. Should be equipped with built-in densitometer to automatically maintain film-to-film consistency 12 bit Grey scale gradation  FDA and CE approval. | ManufacturerUSA/Europe/  Japan | 1 |  |  |
| 108 | Computed Radiography System | DICOM compliant floor-mount single slot digitizer for scanning 69 IPs of 14x17 size/hour.Functionality to read 35x35cm and 35x43cm IPs with pixel pitch smaller than 100 microns. CR workstation with latest image acquisition and enhancement software for GenRad and Mammography.16 bits for image acquisition and 12 bits for the post processed images.The CR system and Mammography software must have FDA approval.CR cassettes must have Rigid phosphor imaging plates Two sets of CR cassettes with standard powder-based phosphor Rigid IPs for each size of 8x10”, 10x12”, 14x14”, 14x17” and 18x24cm and 24x30cm for Mammography.The CR system must be needle-ready having compatibility with structured needle phosphor technology for Mammography.DRYVIEW 5950 DICOM LASER printer with two online sizes having throughput 70 sheets of 14x17/hr.Minimum 508 dpi printing resolution for all film formats. Two online sizes.Should be equipped with built-in densitometer to automatically maintain film-to-film consistencyGrey scale gradation 12 bit and above.FDA and CE approval.(Please provide Vis-a-Vis specifications reference/details on attached product | ManufacturerUSA/Europe/  Japan | 1 |  |  |
| 109 | Lead Glasses | 26 X 18", 25 X 21", 12 X 6" | Any | 1 |  |  |
| 110 | Magnetic Resonance Imaging (MRI) Machine | MAGNET  Actively Shielded  Superconductoring Zero Boil Off 1.5 T  Aperture (bore) of 60 cm or more  Magnet Length with covers 195 cm or less  Homogeneity - 0.6 ppm or less at 40cm FOV  Helium Capacity - 2000 liters or more  Minimum Amplitude : 33 mT/M or higher  Minimum Slew Rate : 120 T/m/s or higher  Duty Cycle - 100%  Acquisition matrix in both 2D & 3D should be 1K x 1K in all sequences  RF AMPLIFIER / RECEIVER  Number of Receive Channels : 16 or more dedicated receiver Channels  Output Peak Power : 10 kW or more.  Receiver Bandwidth per channel - 1 MHz per each receiver channel or better  ACQUISITION PARAMETERS  Slice Thickness 2 DFT - 0.5 mm or better  Slice Thickness 3 DFT - 0.1 mm or better  Parallel imaging capability - ipat/asset/sense/excite/speeder  PATIENT ENVIRONMENT  Tunnel Length - 60 cm or less  Maximum Patient weight - 150 Kg or more  Minimum Table Height - 60 cm or less  Scan Range - At least 200 cm or more coverage from head to toe  Table top vertical travel - Motorized vertical travel  Rerun-to-scan plane function  Halogen/laser light beams  Acoustic Noise Reduction system (ART, Headset, Softone Software)  ACCESSORIES FOR PATIENT COMFORT  Soft mattress with Head Rest  Set of soft immobilization straps  Two way intercom system for patient communication  Coils  System should offer easy selection of elements for best SNR for the given FOV. All 8 or 16 Ch coils should support parallel imaging  BODY COIL (Integrated to Magnet)  Whole Body : Gantry integrated whole body imaging coil  One high quality 16 element quadrature/ Circular polarized (CP) body coil. Posterior receive coil with large left right imaging coverage of at least 60 cm or higher  HEAD SPINE COIL/ IMAGING OR COMBINATION OF COILS  Head / Brain imaging : 8 elements or more  Neuro Vascular imaging: up to 16 elements or more  Posterior Spine : 12 Elements or more  TORSO OR ANTERIOR COIL  8 Element torso coil combinable with posterior coil for body imaging or more  FLEXIBLE COILS TO IMAGE JOINTS/ FOOT/ KNEE/ ANKLE  One small, medium and large sized 4 element coils or more  BREAST IMAGING  Dedicated breast coil : 8 Channel or more  PERIPHERAL VASCULAR COIL/IMAGING:  "Anterior torso coil should be combined with posterior and flex coils for peripheral imaging.  If not then quote dedicated peripheral vascular coil."  COMPUTER SYSTEM / OPERATOR CONSOLE  Fast and Powerful computer, 64 bit  16 GB RAM or more  Intel Quad Core Processor > 2.5 GHz or more processors  DVD R/RW  DVD archival for storing DICOM images  800GB or greater hard disk for image storage capacity of minimum 250,000 uncompressed images at 256x256 matrixes  Display Monitor : 19" or more LCD/TFT monitor (flicker free & High Resolution)  Mouse, Alphanumeric Keyboard  RECONSTRUCTION CONSOLE  Main Processor Reconstruction engine Dual Core and 20 GB RAM or more  Reconstruction Speed : 12,000 FFT/sec or better  SYSTEM CAPABLE OF PERFORMING FOLLOWING IMAGING AS STANDARD  ECG Gating  VCG Gating  Cardiac Gating  Respiratory gating  Neurology Applications  Angiography Applications  Cardiac Applications  Abdomen / Body Applications  Oncology Applications  Breast Applications  Orthopedic Applications  Pediatric Applications  Parallel Imaging package for performing complete range of applications  APPLICATION SOFTWARE  The system should have basic sequences package with Spin Echo, Inversion Recovery, Fast Spin Echo and Gradient Echo  Fast inversion recovery, FLAIR, STIR/TURBO, STIR & EPI  Fat suppression technique  Multiecho T2 measurement and mapping  T2\* Perfusion Imaging to enable large anatomy coverage of the brain and in line calculation of the resulting hemodynamic as well as physiological parameters. The perfusion analysis should have capability to calculate color display of rMTT, rCBV, rCBF, corrected CBV, permeability constant and volume leakage  Parallel-Imaging Acceleration techniques for reducing scan time.  Time Of Flight 2D & 3D  Fat Suppression (In Brain, Body, Extremities)  Breast Spectroscopy  Breast Imaging software with latest imaging techniques  Elliptical scanning reduces scan time for 3D imaging  BOLD IMAGING fMRI (Functional MRI)  Dark-blood inversion recovery technique that suppresses blood signal  Arterial Spin Labeling for High quality brain perfusion information without contrat media injection.  T1 perfusion post processing like wash in and wash out curves, TTP should be offered standard  The system should be offered with Fast Gradient Echo based technique for performing enhanced dynamic contrast application with good spatial (isotropic) and temporal resolution especially for liver and colonography exams  Contrast and non-contrast enhanced MRA  Echo planar imaging (single and multi shot)  Diffusion imaging with ADC maps.  Diffusion Tensor Imaging - 35 Directions or more  Enhancements of peripheral vascular run offs  Real-time respiratory navigator to synchronize data acquisition to the respiratory cycle of the patient. Option include: gating, tracking, gating & tracking, triggering, position over multiple breadth hold sequences. Designed for all Body applications, including diffusion and DWIBS.  High resolution diffusion / DWIBS should enable single or multi-station high resolution diffusion weighted imaging with background suppression. Patient and physiological motion is controlled by navigator-based motion correction  The system should have facility for quantification of the CSF flow or Blood flow data on the main console and / or the workstation  MPR and Multi Planar Reconstructions. High resolution studies for joints & inner ear examinations  ECG Gating, Respiratory Gating, VCG Gating and blood suppression.  Spectroscopy (single and multi voxel)  DIXON Imaging Technique  Fast protocols for uncoperative patients  Motion correction in all directions  Software for MRCP  MRI Dedicated WORKSTATION from Manufacturer  Fast and Powerful computer, 64 bit  16 GB RAM  Intel Quad Core or better > 2.5 GHz or more processors  DVD R/RW  DVD archival for storing DICOM images  800GB or greater hard disk for image storage capacity of minimum 250,000 uncompressed images at 256x256 matrixes  24" or above High Resolution LCD monitor  Mouse, Alphanumeric Keyboard  3D Volume rendering, MIP, VIP, minIP, Surface MIP  Comprehensive DICOM Printing  DICOM 3.0 & IHE compliance  RF CAGE  Full imported Copper RF Cage with interiors. (Country of Origin USA/ EU/ Japan). Its price should be included in main quote  Accessories  UPS for complete system (at least 120KVA for the whole system)  Suitable Chiller (Imported) for cryo-cooler  MRI Compatible Wheel chair  MRI Compatible injector  MRI Patient Monitoring Camera  Hand Held Metal detector  QUALITY ASSURANCE  FDA/ CE Approved  Country of Manufacture : USA, EU or Japan  Warranty/MAINTENANCE  1 Years Warranty  Training  8+4 Days MRI Training at Site (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 111 | Mammography Machine Digital | High FREQUENCY X-RAY GENERATOR: 5 KW.23 - 35 KV (1 KV STEPS) ,better will be preferred. mAs range 5 ~ 500 mAs. Exposure Time 4 — 6 sec.Exposure Mode: Manual & Automatic (AEC). Automatic Exposure mode should have automatic selection of Track, filter, kV and mAs. C-ARM WITH source to detector distance 65 cm or more. Motorized lsocentrlc rotation. User defined Motorized compression device with safety release, Rotation 160~ 180° X-RAY TUBE WITH ROTATING ANODE Tube type should be rotating with dual material anode preferred material would be Molybdenum / Rhodium / Vanadium / Tungsten. Four focal spot 0.1 & 0.3 and dual focus in each track., Anode heat storage capacity 300 kHU better will be preferred, System should have separate monitoring software for tube overload protection. Collimation Manual & Automatic., Automatically switching light centering device, Collimators should have at least two filters Molybdenum 0.03mm or better, and Rhodium 0.025mm. Direct /Indirect Conversion FULL FIELD FLAT PANEL DETECTOR 24 X 30 CM FORMAT. Depth 14-BIT or more. PIXEL Pitch: 100 X 100 µM and Resolution: 3062 X 2394 PIXELS or better. DQE: 60 % or more REMOVABLE GRID (RATIO 5:1, 30 LP/MM or better) Should have motorized Grid, Should have Breast support for Geometric Magnification. ACQUISITION WORKSTATION: Intel /AMD Dual Core HP or Equivalent brand from original Manufacturer workstation, Memory should be 2 GB RAM or better Should be able to store up to 25,000 images or more, 1 MP LCD Monitor Medical Grader or better, Compression force display Rotation Angle Display, Breast Thickness display with Thickness Compensation Algorithm. Processing Features should include: Dose Calculation information /AGD (Average Glandular Dose), Zoom & Pan, Magnifying glass, Flip, rotation of image. Inversion Measurement and Annotation Tools. Should have online / built-in UPS for avoiding loss of information (Recommended built in UPS. From original Manufacturer for system safety and reliability). Emergency Stop button STANDARD ACCESSORIES: 24 X 30 Cm compression paddles. 19 X 23 Cm sliding compression paddle, 24 X 30 Cm flexible sliding compression paddle 19 X 23 Cm flexible si sliding compression paddle, wall mount stand for paddles & stereo device. Grid less device for geometric  Variable magnification 1.5X AND 2X., two pairs of compression foot/paddle, X-RAY control push-button with extensible cable. X-ray shield from original manufacturer integrated with acquisition console for protection, Laser printer capable of printing of 10 X 12 and 14 x 17 FILMS with two packets of films for testing purpose, two set of special illuminators for viewing the mammograms. UPS to run the whole system with minimum 20 min backup. Standard manuals, Calibration equipment and quality control devices should be part of system. Lead Apron, female and Male should be provided, 2 magnifying glass/ hand mirrors for viewing Renovation of the machine area/room and patient waiting area responsibility of vendor , including ﬁre extinguisher equipment , air conditioning , protection of operator by lead stand  With lead glass. Local Training of Two Radiographers, Application specialist visit on site -at least two visits in first year of installation. The System should consist of latest software's and should have provision of upgradability to Advance Applications. Quality Assurance: FDA / CE Approved SYSTEM UPGRADABILITY: The system should be upgradeable to Advance applications 30 TOMOSYNTHESlS. (Provide Separate Upgrade Price)" The system should also be able in upgradable to Dual Energy Spectral Mammography. (Provide Separate Upgrade Price)" The system should also be upgradable to Stereotaxy Mammography. (Provide Separate Upgrade Price) The system should also be available with Workstation with Computer Aided Detection capability from Original Manufacturer of offered Mammography. (Provide Separate Price) Foreign training of two Teaching Staff of Radiology Department by Manufacturer. (Provide Separate Price)  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 112 | Blood Cell Separator | Multi Component BloodApheresis System) Mobile / Portable.  Aphaeresis options to collect Platelets, Red Blood Cells, Plasma & Stem Cells  a. Leukodepleted platelets in a fully automated procedure  b. Ease of use & flexibility  c. Data acquisition capability  d. Up Grade able Software  e. Portable Aphaeresis System  f. Only 26 kg weight  g. Single Access  Protocols  Blood Component Collection  Leukodepleted Platelets & Plasma  Fresh Frozen Plasma  Leukodepleted Platelets & Red Blood Cells  5Red Blood Cells & Plasma  Therapeutic Collection  Peripheral Blood Stem Cells  Therapeutic Plasma Exchange  Bone Marrow Concentrate  Autologous Pre-Operative Collection  1Plasma Erythrocyte Saver  (2 Buffy coat depleted RBC units + 2 FFP units)  2. Autologous Erythro-apheresis  (3 Buffy coat depleted RBC units) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 113 | PACS | Picture Archiving and Communication System (PACS) integrates with the following IT systems: •PAS (Patient Administration System) for demographics, current location, current responsible consultant/General Physician •RIS (Radiology Information System) for scheduling information & report information •Modalities—receives images & image related information Demographics & ADT Information consistency—All demographics & ADT (Admission Discharge & Transfer information) must be kept up-to-date on all clinical IT systems. Any demographics update or patient merges on PAS must real-time update PACS systems. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 114 | Ultrasound Digital Machine | Main unit Trolley Mounted System with B mode (2 D), Color flow mapping, M mode, PW/CW Doppler, Doppler Audio, PW/CW must be continuously steerable(optional) , Power Doppler Imaging (PDI) Tissue harmonics, Compound imaging, Trapezoid imaging, Panoramic imaging with processing channels of more than 190,000. 2 Active Probes Connectors and one optional  Optional Parking Probe Connector. Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, Pediatrics and, Cardiac and At least 8 Recording keys available on keyboard. Cine Memory of 128MB, Internal Hard disk Drive upto 500GB, Frame Rate: 300 fps or more Machine must have options of Trapezoidal Imaging, Needle Visualization Software, Speckle Reduction Filter for improve the grainy images, Free Hand 3D, Quick Gain/ Auto Optimization, Tissue Velocity Imaging (optional) Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD, Post Processing of 2D, Color and PW with complete features like Dynamic range, Auto optimization. Spatial Compounding imaging should be compatible with the color flow mode, Pulse wave Doppler, Speckle reduction and available on Convex, Linear and Endocavity Probe. Must have Report writing format for different Applications. Tools to measure the intima media thickness, fetal biometry measurements (FL, BPD, HC, AC) and the breast lesions automatically. Built in training tool to guide the end user to do any procedure (to include images and videos). Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging. Zoom: Read and write Zoom compulsory Cine Memory: 700 or more Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  Probes: Convex Probe:2-5MHz Applications: Abdomen, OB/Gyn, Vascular, Urology. Endocavity Probe:-10MHz Applications: OBS/Gyn, Urological/ Transvaginal and Transrectal. Accessories: 2KVA UPS and B/W Thermal Printer Optional Probes: Linear Probe: 4-12MHz Applications: Vascular, Small Parts and Pediatrics Phased Array Probe: 4-12MHz Applications: cardiac, Transcranial. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 115 | UPS | On Line | Any | 1 |  |  |
| 116 | X-Ray Films Processor heavy Duty. | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 117 | Band Ligator | Any | Any | 4 |  |  |
| 118 | Examination couches | Frame work made of Round 32mm 16SWG M.S Tube. Back rest section adjustable on ratchet / lever up to at least 45 degrees. Legs fitted with PVC stumps. Cushion 5 cm foam (life time Guarantee) covered with "A" class rexene / leatherette. Epoxy Powder Coated Finish | Imported or Best Local Export Quality | 3 |  |  |
| 119 | Light Source | LED Light source with intensity control to adjustment of desired brightness  Unit should be unlocking mechanism safe adaption of the light cable connector and switch to standby function in case of removable light guide cable  Lamp type LED with Color Temperature 65000K and life of Lamp 25,000h  Noise level max 50 to 55dBA  Line voltage 100-240V  Unit Complete with Fiber optic cable with optic light cable teste | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 3 |  |  |
| 120 | Proctoscope All Size | Any | Local Best Quality | 10 |  |  |
| 121 | Printer Laser for CT Scan Films | DICOM LASER printer with throughput 45 sheets of 14x17/hr. Minimum 325 dpi resolution. Should be equipped with built-in densitometer to automatically maintain film-to-film consistency Grey scale gradation 12 bit and above.FDA/CE Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 122 | UPS | Any | Any | 1 |  |  |
| 123 | X - Ray Films Processor | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 124 | Vessel Sealing System | The energy Platform should deliver both enhanced Monopolar & Bipolar energy with the next generation of vessel sealing in one unit.  The system includes 02 independent Monopolar outputs,  01 separate Monopolar foot-switching port.  01 bipolar port auto-bipolar and  01 vessel sealing port with foot-switching or hand switching option.  Available with MF socket  All-in-one unit compatible with conventional electrosurgical instruments and all current and new vessel sealing instruments..  Automatic instrument recognition.  Enhanced vessel sealing permanently fuses vessels up to and including 7 mm, lymphatics, tissue bundles, and pulmonary vasculature.  Safety and diagnostic functionality includes automatic fail safe function auto stop on completion of sealing  Technical Specifications:  Modes:  Monopolar cutting (Pure, Blend, Auto, High)  Monopolar coagulation (Fulgurate, Spray, Forced, Soft)  Bipolar (Precise, Standard, Macro, Soft)  Low pressure for Laparoscopy (0.5 – 4 LPM or less) (With Peritoneal Pressure Monitoring)  Maximum Pressure or Open surgery (0.5 – 6 LPM)  Output Characteristics  Vessel Sealing:300 W  Monopolar Cutting:  Pure: 350 W  Blend:200 W  Monopolar Coagulation  Fulgurate 120 W  Spray 120 W  Bipolar  Bipolar Low and Standard 100 W  Bipolar Macro / Cutting:100 W  Input Power  220– 240 VAC, 48-65 Hz  Safety Standard:  Class I Equipment (IEC 60601-1)  Type CF Equipment (IEC 60601-1) Defibrillator Proof  Liquid Spillage (IEC 60601-2-2)  Electromagnetic Compatibility (IEC 60601-1-2 and IEC 60601-2-2)  Standard Accessories:-  Vessel Sealing Energy Platform: 01 each  Standard Bipolar Footswitch 01 each  Power Cord 01 each  User manual 01 each  Original Cart for complete system 01 each   |  | | --- | | (REUSABLE AND DISPOSABLE ACCESSORIES) |   BiCision L L 450mm; OD 5mm 1 SA (Box) = 5 ST (Piece)  BiClamp E LAP forceps Maryland semi-deep; L 340mm; OD 5mm  BiClamp E LAP forceps Maryland smooth; L 340mm; OD 5mm  BiClamp E LAP forceps; Kelly semi-deep; shaft ø5mm; L 340mm  BiClamp curved 18°; L 200mm  BiCision L 200mm; OD 5mm1 SA (Box) = 5 ST (Piece)  BiClamp curved 23°; smooth; L 150mm  BiClamp bent 25°; wavy; L 210 mm  ESU pencil, disposable with rocker switch 1 SA (Box) = 10 ST (Piece)  Cleaning pad for electrodes sterile, single use 1 SA (Box) = 100 ST (Piece)  NESSY Omega Plate (85+23)cm² , without cable 1 SA (Box) = 50 ST (Piece)  Patient plate cable NE 2 socket+PIN; conn. clip;4m  Bipolar forceps Premium straight; 20cm; blunt 1.0mm  Monopolar forceps; straight 20cm; blunt 1.7mm;corrugated  Monopolar cable MO 3 Pin; forceps; 4.5 m  Prefilter for use with smoke evacuators 1 SA (Box) = 15 ST (Piece)  Clip-on handle for smoke evacuators 1 SA (Box) = 25 ST (Piece)  Fastening set IES 2 to VIO-CART  Adapter bipolar resection  Bipolar cable; TUR/TCR; Wolf MF plug; L 4m | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
|  | FOR LANDHI HOSPITAL |  |  |  |  |  |
| 125 | A / B Scan Biometry | PC based Modular system with A scan, B scan facility, 13 MHz A-Scan probe, ACD, AL, LT , VL, Pre defined velocity for different eyes, Large number of data base for selection of Intra ocular lens, At least 6 IOLs formulae, 10 MHz B-Scan probe. Scanning angle 35 or 50 Degree, 43 to 50 mm scan depth, With movie facility, dual screen live screen with calipers measurements, Complete with compatible Laptop & B –n W Printer. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 126 | Operating Microscope | Main Body with motorized zoom (Ratio 1:6)&motorized XY compiling, manual fine focusing,0°- 210˚ inclinable binocular tube, Eye Piece 10X wide field, Objective lens f = 200mm(APAO), 15V/150W halogen coaxial illumination second lamp ready to use. Floor stand. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 127 | Phacoemulsification Machine | Peristaltic Pump with ICE & CASE technology, Light weight Titanium Hand Piece: Front Digital Display, Audio Speaker, more than 10 surgeon settings, Reusable tubing to reduce day to day expenses, Electrically driven Oscillating vitrectomy cutter with 600 cut rats, Pulse modulation, Programmable foot Pedal, Original instrument cart with motorized IV pole facility, Upgradable system. Quote up gradation as option. FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 128 | YAG Laser | Yag laser with Capsulotomy and Irridectomy lenses. Wavelength 1064nm, pulse width <4ns, Display screen attached in the arm of slit lamp. 5 steps magnification built-in slit lamp. Original motorized instrument stand. FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 129 | Immuno Diagnostic System with Intellicheck Technology | System as well as Kit Should be approval for blood screening is mandatory, system should have intellicheck technology, Detection Technology: must be Enhanced. Chemilumisence: Should have minimum 28 days FDA/CE/JIS Certified. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 130 | BMC Grafting Set | Any | Any | 1 |  |  |
| 131 | Instruments for Spinal Surgery | Any | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 132 | Traction Table for the use of image intensifier | Any | Any | 1 |  |  |
| 133 | Auto processor Heavy Load | Microprocessor controlled fully automatic processing unit  Continuous roller transport system  Process time 1.5-3 min. adjustable in steps of 0.1-min.  Processing speed 70-80 sheets/hr min at standard size x-ray film 14" x 17".  Maximum film width= 14"x17"  Minimum film size= 4"x4"  2 programs memory  Noise level 58 dB(A).  Developer and fixer, temperature and replenishment automatically Controlled  Developer and fixer tank capacity to be adequate to match the processor speed  Electrical requirements 220v/Ac single phase 50Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 134 | C.T. Scan Machine | GANTRY Gantry bore to be at least 70cm Minimum gantry rotation speed to be not less than 0.5 sec, for 16 slices per 360 degree rotation or better Minimum gantry tilt +/-25 degree, Minimum field of view to be 50cm or better, Multiple slice thickness selectable option TUBE:- Anode Heat Storage capacity of at least 5.0MHU or more, Anode Heat Dissipation of not less than 800 KHU/min Generator output of at least 300mA, Automatic mA control (AEC/mA modulation) software DETECTOR :- Should be ultra-fast solid state/ ceramic detector, compatible with multi slice CT scanner. GENERATOR. High frequency type. Minimum power not less than 48kW, without iterative dose calculation. "Iterative Dose reduction software and associate hardware to be provided as standard." Calculate patient dose in milli-Gray preferably before axial acquisition. Mention Low contrast delectability (LCD) calculated on a catphan CT phantom of 5 mm resolution with a CT Number of 3 HU (0.3%) contrast difference. Scan length of at least 1.45 meters of all helical and spiral scans in a single acquisition. TABLE:- Single acquisition scan range of at least 1.45 m. "Scans with at least +/- 0.25 mm accuracy on 180 Kg patients." CONSOLE COMPUTER System architecture and operating system based on latest generation. Multi-tasking and parallel processing CPU system, minimum Dual Xeon processor or RISC. "Factory inbuilt storage space of not less than 5OOGB" "Capable of storing at least 250000 raw data images in 512x512 matrixes." Reconstruction rate at 15 images/frames per second or better at 512x512 matrixes. "Medical grade Console color TFT Monitor 19"". ", CD /DVD RW. SOFTWARES: Full color volume rendering 3D at console, CT angiography at console, with all standard licensed software’s 3D surface rendering at console, Virtual endoscopy/ colonoscopy / bronchoscope at console. Any other software offered as standard by manufacturer. POWER REQUIREMENT Three phase with line voltage of 220 V 50Hz ACCESSORIES Online sine wave UPS for whole system with a minimum backup of 10 minutes on full load Single head programmable Power injector with flow/volume and temperature control, mounted on mobile base with 100 syringes of 150 ml capacity and connecting tubes, Standard set of phantoms for calibration of CT Connectivity with the local HMIS/RIS/PACS with MWL fetch from RIS system Documentation  Original Certificate for Country of Origin by the Manufacturer with the supply of equipment User manual in English (Three copies) Service Manual (including Maintenance / Schematics and calibration) in English (Three copies) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out. List of equipment's available for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/technical manual. CIVIL WORK Floor tiles concrete floor + at least 5cm anti-static vinyl sheets (imported),Bathroom + store room tiles (imported European/Spanish) 1x1, 1/2 Feet, Dampa ceiling with 2x2 feet ceiling light,UPVS pipes GI(IILM) with china fitting Master or Sonex fittings, Bathroom accessories (Porta or as approved by user department),Cables (Pak Cables) Cisco switches,Woodwork (deodar) where required, Shifting of discarded material.Paint adequate coating (3 coats) ICI dulex Emulsion / Enamel with proper preparation of surfaces. Furniture: aluminum shelves/ partition as required by user deptt. Desk/Chair for operator as required AC with dehumidifier (European Unit) to be clarified by vendors. Underground tunneling steel covered items. Possible visit of the vendors/ participants of the CT scan site for their suggestions. Lying of 300 meters cable electric LT600/ 1000 volts PVC insulated over all Pakistan cable standard copper conductor as per machine and A/c load unarmored laid in proper route including all work as per technical specifications IEE. Supply and fixing complete in all respect as instruction of department.  Separate Quote Should be available: Workstation from Manufacturer with Brain Perfusion, Virtual endoscopy/ colonoscopy / bronchoscopy, 3D surface rendering & other advanced software features from Manufacturer (Provide Separate Quote) Two week factory training of one biomedical engineer (Provide Separate Quote) (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
|  |  |  |  |  |  |
| 135 | Digital Radiography System (DRS) | Digital Mobile Radiography System  Mobile x-ray unit, H.F. microprocessor controlled x-ray generator.  Power 32 kW.  Rotating anode x-ray tube focus 0.8-1.3mm.  Tube anode heat capacity 107kHU.  Max values 300mA, 100kV.  22’’ Touch screen LCD console with full screen image.  System Weight: maximum 280 kg.  Portable strongly built detector.  Portable detector sustains a weight of 7.5kg.  The System is a digital mobile x-ray unit equipped with a wireless 36x43cm flat panel detector.  The System also features +180\*/-180\* rotation of the x-ray monoblock arm to facilitate exam execution in narrow spaces.  The System is 100% microprocessor controlled and equipped with a large area 22” LCD high contrast touch screen console,  The System has been designed with extensive use of light-weight alloys, thus allowing easy system mobility with minimal effort and no need for costly and heavy system motors.  The System is characterized with a “dead man” breaking system with a comfortable handle that facilitates the unit movement and positioning. The breaking system blocks the unit in any position, just releasing the handle. An automatic closedown system prevents the unit from remaining in ON mode for prolonged time.  The System is 100% DICOM compliant. Once the imaging session is completed, the entire study can be automatically sent to a PACS, a review workstation, or a DICOM printer; a large number of studies can be also maintained locally for temporary storage. And, most importantly, the intuitive Graphical User Interface makes the entire process smooth and easy. Needless to say the System DICOM layer has been thoroughly tested and will seamlessly interface with any DICOM environment.  The System is equipped standard with the image enhancement algorithm, which makes it possible to expand the latitude of a single image and see all the relevant clinical details at the same time and without time-consuming Window/Level adjustment.   |  |  | | --- | --- | | *RADIOLOGICAL CHARACTERISTICS* | | | Maximum power | 32 kW | | Inverter frequency | 40 kHz | | Max ripple | < 1% at max power | | Exposure times | 2-2200 ms | | kV range | 40-100 kV | | mAs range | 40kv - 200 mAs  50kv – 180 mAs | | Max curent | 300 mA @ 100kv | | Operating mode | Two-points | | Anatomical techniques | Over 550 ANATOMICA TECHNIQUES can be stored | | X-ray tube type | Rotating anode | | X-Ray monoblock Colum arm rotation | ± 90 deg. | | Monoblock rotation around (X-Y axis) | X ±180 deg.  Y +103 deg. / -50 deg. | | Focus height min | 2022 mm | | Maximum anode heat content | 80 kJ (107 kHU) | | Thermal monoblock | 600 kj (800KHU) | | APR | * 1000 | | Maximum continuous anode heat dissipation | 300 W (24 kHU/min) | | Internal Battery for unplugged exams executions | Standard |  |  |  | | --- | --- | | *OPERATING CHARACTERISTICS* | | | Operator interface | Rear-lit High-Contrast 1280 x 1024 22” LCD touch screen display for all the operating parameters and messages for any possible anomalous conditions | | DAP camera | Optional | | Automatic closedown | The unit is fitted with an automatic closedown system minutes of not being used. This features prevent the unit from remaining on by mistake for long periods | | X-ray push button | Manual with double click and 4m extensible cable (standard) |  |  |  |  | | --- | --- | --- | | *ACQUISITION SYSTEM* | | | |  | Flat panel detector | Wire and WIFI | | IMAGE ACQUITION & STORAGE | Acquisition resolution  Scintillator  Detector dimensions  Pixel pitch  Max. spatial resolution | 3000x2372x16 bit  Cesium lodide (Csl)  35x43 cm  139 μm  3,6lp/mm | | Max images locally archived | 28000 images (no compression)  56000 images (lossless compression) | | Automatic LUT | YES, Linear and Logarithmic | | Image Enhancement | YES, Automatic | | Anatomic Programs | YES, preconfigured and editable | | DICO 3.0 | Print SCU | YES, (Optional) | | Store SCU/SCP | YES | | Worklist Management SCU | YES | | Media Storage SCU (CD/DVD) | Optional | | MPPS SCU | YES | | Storage Commitment SCU | YES | | Verification SCU/SCP | YES | | Query/Retrieve SCU | YES |  |  |  | | --- | --- | | *MECHANICAL CHARACTERISTICS* | | | X-ray monoblock arm rotation | + 180o | | Width [cm] | 74.5 cm | | Length [cm] | 152 cm | | Height [cm] | 148 cm | | Focus height max. [cm] | 202 cm | | Handling | Dead man brake | | Weight [kg] | ~ 280 kg |  |  |  |  | | --- | --- | --- | | *ELECTRICAL DATA* | | | | Power supply voltage | Single phase, 230 Vac (240V – 110Vac optional) +/-10% | | | Frequency | 50/60 Hz | | | Maximum Absorbed Current | 16 A | | | Line impedance | 0.4 Ω | | | *ENVIRONMENT CONDITIONS* | | | | Operating temperature | | From 15o C to 35o C | | Operating humidity | | From 30% to 75% | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 136 | Portable Color Doppler Ultrasound Machine | •Portable Grey Scale machine with B mode (2 D), M mode, Color Doppler and optional CW, Tissue harmonics, Compound imaging, Trapezoid imaging, panoramic imaging with Processing channels of 90000 or More  •Color Doppler and Continuous Wave Doppler Ultrasound.  •External 2 Probe Connector (optional)  •Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, and Pediatrics  •Cine Memory of 128MB.  •Internal Hard disk Drive up to 500GB.  •Frame Rate: 300 fps or more  •Separate trolley available  •Machine must have options of Trapezoidal Imaging, Needle Visualization Software,Speckle Reduction Filter for improve the grainy images  •Quick Gain/ Auto Optimization.  •Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD  •Post processing of 2D, Color and PW with complete features like Dynamic range Auto optimization etc.  •Spatial Compounding imaging available on Convex, Linear and Endocavity Probe.  •Tools to measure the fetal biometry measurements (FL, BPD, HC,AC) and the breast lesions automatically.  •Built in training tool to guide the end user to do any procedure (to include images and videos).  •Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging.  •Zoom: Read and write Zoom compulsory  •Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  •FreeHand 3D  •Probes:  oConvex Probe:2-5MHz  oApplications: Abdomen, OB/Gyn, Vascular, Urology.  oEndocavity Probe:-10MHz  oApplications: OBS/Gyn, Urological/ Transvaginal and Transrectal.  oOptional :Linear Probe: 4-12MHz  oApplications: Vascular, Small Parts and Pediatrics  o Accessories: 2KVA UPS and B/W Thermal Printer(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 137 | Ultrasound Machine Portable | Mobile X-Ray Machine 100mA complete set with all standard accessories for its installation and commissioning:  High frequency X-Ray inverter type Generator  Having output power of 4kW or more X-Ray tube 50 KHU or more KVP range: 40-110kV or more MA Range: 25-100mA or better,  mAS range: 1.0-200mAs or better Centering light indicator  Standard power supply cable, standard x-ray exposure switch cable, Vertical movement of the arm to lower or raise the tube collimator assembly, Rotation of the Collimator with reference to the power module (+/- 90deg) or better.  Country of origin should be USA/western Europe/Japan with their respective standards MDD (CE) compliance/MHLW Japan Warranty period shall be of three years starting from date of installation / commissioning. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 138 | Ultrasound Printers | Any | Any | 2 |  |  |
| 139 | ECG Machine 12 Leads | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals. Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination. Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report.  System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 140 | Portable Mobile X-Ray Machine - 300mA | System SpecificationAt least 5 cassette holding capacityWaterproof pushbuttonsGeneratorFrequency : 40kHz or betterShould be high frequency 30 kw Generator or betterkV range : Equal or better than 40 to 120Dual Focal SpotmA : 300 mA or betterX-Ray TubeMust be dual focal spot sizes 0.8mm / 1.3mm or betterMust be rotating anode type speed must be greater than 2500 RPM @ 50Hz or betterConsoleMicroprocessor controlledkV and mA selectionAutomatic programmed mode (APR)Focal spot selectionThree years comprehensive warranty from Manufacturer including Tube should be provided Quality Assurance CertificateSystem should be CE / JIS / FDA certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 141 | Oxygen Flow meter | Any | ManufacturerKorea/Taiwan/China | 1 |  |  |
| 142 | Central Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 143 | Pressure Infusion Bag | PIB has a dual-pressure safety valve that switches between normal and over-pressure mode with a click of a button. Pressurization and deflation can be achieved with one hand. The blunt hook will not puncture the fluid bag and is secure in the event of pressure loss. The rigid hanger design slips easily over IV poles. Size: 500mL to 3000mL • Highly visible color coded gauge accurately displays bladder pressure • Large inflation bulb with smooth recoil for hand comfort • Robust and durable construction to hold constant pressure and prevent leaks • Single-patient-use to minimize the spread of nosocomial infections via touch contamination • Color-coded printing for rapid identification of size • Materials that do not contain natural rubber latex or neoprene | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |  |  |
| 144 | Laryngoscope Set Complete | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 145 | Cardiac Defibrillator | Display Screen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2. Defibrillator Waveform: Damped sinusoid or Rectilinear Biphasic. Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel. Rectilinear Biphasic energy selection up to 200 joules maximum. General Size: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep. Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles. ECG Monitoring Patient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads. Selectable by front panel switch. Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.) Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikes and provides standard display marker of spike on ECG trace. Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic. Lead Selection: Displayed on monitor. ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor. Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm. 1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input. Display Format: Non-fade moving bar display. Smart Alarms™: Beeper/voice prompts indicate shockable rhythm. Battery Packs Type: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger. Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 146 | Crash Emergency Trolley | Painted steel break-away lock bar, Pack of 100 break-away seals, 30” of vertical drawer space, Cabinet and drawer design allows for customized drawer configurations, Painted steel top rail / push handle, Removable plastic top, Full wrap-around bumper | Imported or Local Export Quality | 1 |  |  |
| 147 | Portable Suction Machine | Suction Machine  Suction Machine with two polycarbonate collection Jars of 2000ml each 4 antistatic castors, 2 with brakes.  Piston type, oil free. Pump flow: Minimum 60L/min and more. Overflow prevention.  Hydrophobic PTFE filter. 3 m PVC Suction tube. Metallic handle, Metallic curved and straight catheter. | ManufacturerKorea/Taiwan/China | 1 |  |  |
| 148 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |  |  |
| 149 | Paediatric Ventilator | Unit to offer microprocessor controlled electronic and sophisticated pneumatics to provide controlled and monitored ventilation and able to be used for neonates and infants. · Adjustment able to be made in line with minute volume, the expiratory and inspiratory flow to be separately adjustable, flow to be independent of PEEP over the whole flow range, · To have precise oxygen mixing particularly in the range of 21 to 100% vol O2. · To have real-time display of pressure and flow waveforms and loops · Screen size 6 to 8 inches · Electrically powered electrically controlled · Integrated O2 monitoring, inspiratory and expiratory pressure measurement, flow monitoring for actual aponea, disconnection monitoring, tidal volume, minute volume, leak rate, spontaneous breathing frequency and trigger function. · Control principal pressure-limited, timed-cycle · Inspiratory time 0.1 to 2s · Expiratory time 0.2 to 30s · Inspiratory flow V/Expiratory flow V 1 to 30/L/min · Inspiratory O2 concentration O2 vol % 21 to 100 vol % O2 · Tidal Volume 5 to 100ml · Rate 1 – 150 bpm · Trigger response time approx. 30 ms · Pressure / flow triggering · A/C, SIMV, Spontaneous · PEEP or CPAP 0 to 15 mbar · Power consumption approx. 140 W · Gas supply operating pressure O2/Air 3 bar - 10% to 6 bar + 10% · Test Lung OPTIONAL Air Compressor  FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 150 | UPS with complete Accessories | Any | Any | 1 |  |  |
| 151 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And  3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds.  FDA/CE/JIS Certified | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 152 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  Operating Features and Characteristics:  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  Screen size: min. 17” TFT LCD touch color display.  ECG:  Numeric heart rate  ECG curves: 7 curves review or more.  NON-INVASIVE BLOOD PRESSURE (NIBP):  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  TEMPERATURE:  2 channel Numeric: temperature selectable in ºC/ºF.  PULSE OXIMETRY:  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  ST-Segment analysis  Arrhythmia analysis  RESPIRATION:  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  OTHER FEATURES:  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  ALARMS:  High & low (settable) on all parameters  Visual and audible indication of alarms.  Built in Printer Two Channel  OPERATING REQUIREMENTS :  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 10 |  |  |
| 153 | Syringe Pump | Graphic LCD monochrome display, size 66 mm x 33 mm  0.1 to 200 ml per hour flow rate range  Syringe capacities 5, 10, 20, 30, and 50 cc. with ± accuracy.  Rechargeable Battery with capacity of 8-10 hours  Power 100-240 Vac / 15 VA.  All alarms expressed by means of light indicators, written words, pictograms and sound beep.  Infusion mode in volume/time, volume limit 0.1 to 999.99 ml with 0.1 ml increments.  3 modes priming. Manual bolus rate 50-1200 ml/hour (50 ml/hour increments)  KVO 1 and KVO 2 from 0.1 to 5 ml/hr. adjustable and storable, continuous infusion or stop.  PAUS: Programmable from 1 minute to 24 hours, increments from minute to minute.  1500 data log events in real time.  Drug list of 50 agents adjustable with Vigilant.  Syringe barrel clasp check, plunger head detection, anti siphon system check, flange detection.  Clamp for fixation to a rail or to pole for unit.  OPTIONAL  Four syringe pump docking station.  Rolling Stand Base with 5 Rollers  Power Fix for 4 syringe pumps  Main Power Cable | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 3 |  |  |
| 154 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampoules) Quality control kit – level 2 (30 ampoules) Quality control kit – level 3 (30 ampoules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 155 | Ventilator | Display: Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation: Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup: Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 4 |  |  |
| 156 | Fowler Bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. | Imported or Local Export Quality | 4 |  |  |
| 157 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 2 |  |  |
| 158 | Foot Step | Size : Single Step 410x275x210 mm. Epoxy Coated Framework Top: Non-slip Rubber Coated made of MS/SS | Imported or Local Export Quality | 4 |  |  |
| 159 | Comod Chair | Any | Imported or Local Export Quality | 1 |  |  |
| 160 | Emergency Light | Any | Imported or Local Export Quality | 1 |  |  |
| 161 | Blood Cell Separator | Multi Component BloodApheresis System) Mobile / Portable.  Aphaeresis options to collect Platelets, Red Blood Cells, Plasma & Stem Cells  a. Leukodepleted platelets in a fully automated procedure  b. Ease of use & flexibility  c. Data acquisition capability  d. Up Grade able Software  e. Portable Aphaeresis System  f. Only 26 kg weight  g. Single Access  Protocols  Blood Component Collection  Leukodepleted Platelets & Plasma  Fresh Frozen Plasma  Leukodepleted Platelets & Red Blood Cells  5Red Blood Cells & Plasma  Therapeutic Collection  Peripheral Blood Stem Cells  Therapeutic Plasma Exchange  Bone Marrow Concentrate  Autologous Pre-Operative Collection  1Plasma Erythrocyte Saver  (2 Buffy coat depleted RBC units + 2 FFP units)  2. Autologous Erythro-apheresis  (3 Buffy coat depleted RBC units) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 162 | Vessel Sealing System | The energy Platform should deliver both enhanced Monopolar & Bipolar energy with the next generation of vessel sealing in one unit.  The system includes 02 independent Monopolar outputs,  01 separate Monopolar foot-switching port.  01 bipolar port auto-bipolar and  01 vessel sealing port with foot-switching or hand switching option.  Available with MF socket  All-in-one unit compatible with conventional electrosurgical instruments and all current and new vessel sealing instruments..  Automatic instrument recognition.  Enhanced vessel sealing permanently fuses vessels up to and including 7 mm, lymphatics, tissue bundles, and pulmonary vasculature.  Safety and diagnostic functionality includes automatic fail safe function auto stop on completion of sealing  Technical Specifications:  Modes:  Monopolar cutting (Pure, Blend, Auto, High)  Monopolar coagulation (Fulgurate, Spray, Forced, Soft)  Bipolar (Precise, Standard, Macro, Soft)  Low pressure for Laparoscopy (0.5 – 4 LPM or less) (With Peritoneal Pressure Monitoring)  Maximum Pressure or Open surgery (0.5 – 6 LPM)  Output Characteristics  Vessel Sealing:300 W  Monopolar Cutting:  Pure: 350 W  Blend:200 W  Monopolar Coagulation  Fulgurate 120 W  Spray 120 W  Bipolar  Bipolar Low and Standard 100 W  Bipolar Macro / Cutting:100 W  Input Power  220– 240 VAC, 48-65 Hz  Safety Standard:  Class I Equipment (IEC 60601-1)  Type CF Equipment (IEC 60601-1) Defibrillator Proof  Liquid Spillage (IEC 60601-2-2)  Electromagnetic Compatibility (IEC 60601-1-2 and IEC 60601-2-2)  Standard Accessories:-  Vessel Sealing Energy Platform: 01 each  Standard Bipolar Footswitch 01 each  Power Cord 01 each  User manual 01 each  Original Cart for complete system 01 each   |  | | --- | | (REUSABLE AND DISPOSABLE ACCESSORIES) |   BiCision L L 450mm; OD 5mm 1 SA (Box) = 5 ST (Piece)  BiClamp E LAP forceps Maryland semi-deep; L 340mm; OD 5mm  BiClamp E LAP forceps Maryland smooth; L 340mm; OD 5mm  BiClamp E LAP forceps; Kelly semi-deep; shaft ø5mm; L 340mm  BiClamp curved 18°; L 200mm  BiCision L 200mm; OD 5mm1 SA (Box) = 5 ST (Piece)  BiClamp curved 23°; smooth; L 150mm  BiClamp bent 25°; wavy; L 210 mm  ESU pencil, disposable with rocker switch 1 SA (Box) = 10 ST (Piece)  Cleaning pad for electrodes sterile, single use 1 SA (Box) = 100 ST (Piece)  NESSY Omega Plate (85+23)cm² , without cable 1 SA (Box) = 50 ST (Piece)  Patient plate cable NE 2 socket+PIN; conn. clip;4m  Bipolar forceps Premium straight; 20cm; blunt 1.0mm  Monopolar forceps; straight 20cm; blunt 1.7mm;corrugated  Monopolar cable MO 3 Pin; forceps; 4.5 m  Prefilter for use with smoke evacuators 1 SA (Box) = 15 ST (Piece)  Clip-on handle for smoke evacuators 1 SA (Box) = 25 ST (Piece)  Fastening set IES 2 to VIO-CART  Adapter bipolar resection  Bipolar cable; TUR/TCR; Wolf MF plug; L 4m | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 163 | Photodynamic Tumor Therapy Laser Therapy | Photodynamic Tumor Therapy Laser Therapy System to be used for, Lymph metastases, Breast cancer, Lung metastases, potentially all kinds of inner tumors, depending on size and location  The unit should be capable for, Selective targeting of tumor cells, Minimal side effects, No resistance after repeated treatments, Tumor vascular shutdown by thrombosis and haemorrhages, Induction of local inflammation, Immune activation through IV blood irradiation | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |
| 164 | Hospital UV Disinfection System | The system should comply with NFPA 99 and EPA standards Establish No: 89568-IN-001/89568-IL-001  The system should be free from by-products i.e. Ozone or secondary decontaminant so that the OTs or ICU can be occupied immediate after the use.  The system should be mounted on UV- energy resistant base and also should have large diameter castors for easy mobilization.  The unit should have double protective covers for lamps as door barrier for safe exit or entrance of the unit.  They system must have wireless remote control system that allow the user to monitor the status of disinfection cycle without entering the room.  The life of the lamps should not be less than 12000 hours.  The unit should be equipped with a 360° motion and heat sensor not intended for use as primary safety device system.  The unit should have an emergency stop system on the base to provide a quick and safe way to shut off the UV lights.  The system should have at least four pre-programmed UVC cycles- (Bacteria/Virus at distance 2.5 to 4.5 meter should take 4 to 9 minutes per cycle time and Bacteria spores at distance 2.5 to 4.5 meter should take 11 to 25 minutes per cycle time)  **Technical Data**  Internal fuse rating 20 Amp  Power cable length at least 4.5 meters or better  Lamp type: GML 515  Lamp quantity: Minimum 24  The length of each lamp: at least 40” or better  Controller rechargeable battery life: 8 hours | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | 1 |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **FOR KOTRI HOSPITAL** |  |  | **Q’ty** | **Unit Price** | **Tot**  **Price** |
| 165 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals.Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. Auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination.Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report. System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing.  FDA/CE Certified | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 166 | Portable Mobile X-Ray Machine - 300mA | System Specification At least 5 cassette holding capacity Waterproof pushbuttons Generator Frequency : 40kHz or better Should be high frequency 30 kw Generator or better kV range : Equal or better than 40 to 120 Dual Focal Spot mA : 300 mA or better X-Ray Tube Must be dual focal spot sizes 0.8mm / 1.3mm or better Must be rotating anode type speed must be greater than 2500 RPM @ 50Hz or better Console Microprocessor controlled kV and mA selection Automatic programmed mode (APR) Focal spot selection Three years comprehensive warranty from Manufacturer including Tube should be provided Quality Assurance Certificate System should be CE / JIS / FDA certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 167 | Oxygen Flow meter | Any | ManufacturerKorea/Taiwan/China | **1** |  |  |
| 168 | Central Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 169 | Pressure Infusion Bag | PIB has a dual-pressure safety valve that switches between normal and over-pressure mode with a click of a button. Pressurisation and deflation can be achieved with one hand. The blunt hook will not puncture the fluid bag and is secure in the event of pressure loss. The rigid hanger design slips easily over IV poles. Size: 500mL to 3000mL • Highly visible color coded gauge accurately displays bladder pressure • Large inflation bulb with smooth recoil for hand comfort • Robust and durable construction to hold constant pressure and prevent leaks • Single-patient-use to minimize the spread of nosocomial infections via touch contamination • Color-coded printing for rapid identification of size • Materials that do not contain natural rubber latex or neoprene | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 170 | Laryngoscope Set Complete | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 171 | Cardiac Defibrillator | DisplayScreen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec., Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shock able rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.FDA/CE/JIS Certified(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 172 | Crash Emergency Trolley | Painted steel break-away lock bar, Pack of 100 break-away seals, 30” of vertical drawer space, Cabinet and drawer design allows for customized drawer configurations, Painted steel top rail / push handle, Removable plastic top, Full wrap-around bumper | Imported or Local Export Quality | **1** |  |  |
| 173 | Portable Suction Machine | Suction Machine  Suction Machine with two polycarbonate collection Jars of 2000ml each 4 antistatic castors , 2 with brakes.  Piston type, oil free. Pump flow: Minimum 60L/min and more. overflow prevention.  Hydrophobic PTFE filter. 3 m PVC Suction tube. Metallic handle, Metallic curved and straight catheter . | ManufacturerKorea/Taiwan/China | **1** |  |  |
| 174 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **4** |  |  |
| 175 | Paediatric Ventilator | Unit to offer microprocessor controlled electronic and sophisticated pneumatics to provide controlled and monitored ventilation and able to be used for neonates and infants. · Adjustment able to be made in line with minute volume,the expiratory and inspiratory flow to be separately adjustable, flow to be independent of PEEP over the whole flow range, · To have precise oxygen mixing particularly in the range of 21 to 100% vol O2. · To have real-time display of pressure and flow waveforms and loops · Screen size 6 to 8 inches · Electrically powered electrically controlled · Integrated O2 monitoring, inspiratory and expiratory pressure measurement, flow monitoring for actual aponea, disconnection monitoring, tidal volume, minute volume, leak rate, spontaneous breathing frequency and trigger function. · Control principal pressure-limited, timed-cycle · Inspiratory time 0.1 to 2s · Expiratory time 0.2 to 30s · Inspiratory flow V/Expiratory flow V 1 to 30/L/min · Inspiratory O2 concentration O2 vol % 21 to 100 vol %O2 · Tidal Volume 5 to 100ml · Rate 1 – 150 bpm · Trigger response time approx. 30 ms · Pressure / flow triggering · A/C, SIMV, Spontaneous · PEEP or CPAP 0 to 15 mbar · Power consumption approx. 140 W · Gas supply operating pressure O2/Air 3 bar - 10% to 6 bar + 10% · Test Lung OPTIONAL: Air Compressor  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 176 | UPS with complete Accessories | Any | Any | **1** |  |  |
| 177 | Mobile Non-Invasive Blood Pressure Apparatus | With Mobile flexibility blood pressure algorithms support speed, comfort and artifact rejection Three different temperature options to choose from:  1) Exergen Temporal Scanner, a non-invasive, fast, easy and accurate thermometer, does not come into contact with mucous membranes,  2) Alaris Turbo Temp provides fast oral or rectal temperatures at the bedside, as well as axillary temperatures in monitor mode in as fast as 7 seconds. And 3) Alaris Tri-Site thermometer provides fast oral, rectal and axillary temperatures at the bedside. It provides predictive measurements with greater tolerance to probe placement in the vicinity of the sublingual pocket in as fast as 11 seconds. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 178 | Multipara Monitors | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **8** |  |  |
| 179 | Syringe Pump | Graphic LCD monochrome display, size 66 mm x 33 mm  0.1 to 200 ml per hour flow rate range  Syringe capacities 5, 10, 20, 30, and 50 cc. with ± accuracy.  Rechargeable Battery with capacity of 8-10 hours  Power 100-240 Vac / 15 VA.  All alarms expressed by means of light indicators, written words, pictograms and sound beep.  Infusion mode in volume/time, volume limit 0.1 to 999.99 ml with 0.1 ml increments.  3 modes priming. Manual bolus rate 50-1200 ml/hour (50 ml/hour increments)  KVO 1 and KVO 2 from 0.1 to 5 ml/hr. adjustable and storable, continuous infusion or stop.  PAUS: Programmable from 1 minute to 24 hours, increments from minute to minute.  1500 data log events in real time.  Drug list of 50 agents adjustable with Vigilant.  Syringe barrel clasp check, plunger head detection, anti siphon system check, flange detection.  Clamp for fixation to a rail or to pole for unit.  OPTIONAL  Four syringe pump docking station.  Rolling Stand Base with 5 Rollers  Power Fix for 4 syringe pumps  Main Power Cable | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 180 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampoules) Quality control kit – level 2 (30 ampoules) Quality control kit – level 3. (30 ampoules) Easy blood gas service manual | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 181 | Ventilator | Display Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes. Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit(Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **4** |  |  |
| 182 | Fowler bed Iron with Mattress | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, Mattress 4” to 5" thick. Local or Best Imported Quality | Imported or Local Export Quality | **4** |  |  |
| 183 | Air Mattress | 2 cell technology (1 in 2 cells is always deflated) with manual pressure adjustment  Operating mode: Continuous  Pressure alternating interval: 10 minutes  Dimensions 198 x 89 x 12 cm  Material of cover Nylon covered by PU  Material of base Nylon covered by PVC  Maximal weight of patient 120 Kg  CPR deflating rate 30 s  Power Supply 230 V AC, 50 Hz | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 184 | Foot Step | Size : Single Step 410x275x210 mm. Epoxy Coated Framework Top: Non-slip Rubber Coated made of MS/SS | Imported or Local Export Quality | **4** |  |  |
| 185 | Comod Chair | Any | Imported or Local Export Quality | **1** |  |  |
| 186 | Emergency Light | Any | Any | **1** |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **FOR KIDNEY CENTER** |  |  |  |  |  |
| 187 | Haemodialysis Machine | Computerized programmable with graphical display, 10” or above Electronic control of dialysate flow rate and blood flows. Variable Bicarbonate / Acetate Concentration. Programmable Ultra filtration with control or varying rate Sodium , UF Profiles Automatic priming with display Display for service diagnostic and calibration Automatic Thermal disinfect mechanism (upto 80 deg C or above) Blood Pump: 15 to 600ml/min or above, capable for adult & paeds blood Tubing Line (Auto adjustment from front panel). Programmable Heparin Management, with bolus option (Heparin pump: 0-10cc/hour). Electronically selectable Dialysate Flow : 0 to 800 ml/min or above Temperature Control: upto 39 deg. C.(Adjustable) Arterial Pressure Monitor:- 300mmHg to + 200 mmHg or above Venous Pressure Monitor:-50 mmHg to + 500mmHg or above. Ultra filtration Rate Control: Range of UFR0 to 4 Liters / hr or above. Air Bubble Detection: Air bubble detector alarm threshold. Facility for adjusting blood level of venous Chamber from panel. Blood Leak Detection, Conductivity Monitor:- Acid and Bicarbonate Solution, 13 to 15.5 mS/cm with the increment of 0.1 mS/cm. Powder Bicarb, internal automatic mixing module. Integrated Endotoxin Filter Module.Real Time online Kt/v with graphical display and with plasma Na+ reading, Integrated BP Monitor. 220 V, 50 Hz power with Automatic Battery backup for at least 15-min or more.Servo stabilizer with each machine, durable & fine quality (Local/Imported) Should be FDA/CE approved (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, German, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 188 | R.O. System with Loop System | 1. Loop system 2. C E Marked / FDA approved 3. Capable for 15 Machines 4. Capacity 700-800 Ltr / Hr 5. Pre and post monitoring system 6. Dead zone free / thread less complete SS fitting and frame 7. Complete pre-treatment system | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
|  | **FOR NOORIABAD TRAUMA CENTER** |  |  |  |  |  |
| 189 | Cubicles Wall mounted Drip Stand | Any | Imported or Local Export Quality | **10** |  |  |
| 190 | Central O2 x Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 191 | Trolley BP Apparatus |  | Imported or Local Export Quality | **3** |  |  |
| 192 | Suction Machine | · Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and  Wall-mounted v-socket x 1. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 193 | ER Bed | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **12** |  |  |
| 194 | Stretcher Trolley | Patient Stretcher trolley I/V pole “W” SS rod removable. Mattress vinyl covered foam top on 12mm plywood Oxygen cylinder holder provided Caster four 6” provided two with stopper. Hi – Low adjustment provided manually with crank system. Material Steel powder coated. Dimension: L1900 X W600X H500-800mm Side rails drop down side rails in Chrome or powder coated finish. | Imported or Local Export Quality | **5** |  |  |
| 195 | Wheel Chairs | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | **5** |  |  |
| 196 | Crash Trolley with all standard accessories | Crash trolley with 4 swivel castors with brakesHaving 4 drawers or moreTop tray for defibrillatorSide tray for instruments Complete with adult and child resuscitator with face mask.Venture suction with collection jarContainer for wasteDrip stand supportCardiac boardOxygen regulatorFlow meter with humidifier | Imported or Local Export Quality | **5** |  |  |
| 197 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 198 | Neck Collar | Any | Imported or Local Export Quality | **5** |  |  |
| 199 | General Surgical Set | Any | Imported or Local Export Quality | **1** |  |  |
| 200 | Dressing Bag | Any | Imported or Local Export Quality | **10** |  |  |
| 201 | Stitching Bag | Any | Imported or Local Export Quality | **10** |  |  |
| 202 | Emergency Cupboard | Any | Imported or Local Export Quality | **5** |  |  |
| 203 | Tourniquet | Table Unit with Carrying Handle, Stand and Basket  pneumatic precision pressure regulator  Dual Channel  Separate programmed setting of 2 channel  Touch Key ped control easy checking and cleaning  Self Test of pressure sensor and system check  Fast cuff infltion and deflation  Regulator knob allows very precise regulation limits pressure to max. 600 mmHg  Automatic change to manual system during failure of compressed air  Arm / 35 cm Silicone /Velcro Cuff , autoclavable, easy to clean and dry quickly  Child / 30 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly  Infant / 20 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **6** |  |  |
| 204 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper. 12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals. Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis. Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications. The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden. AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination. Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics. System provides Chinese/English/Spanish/Turkish operation interface and can print multiply languages report.  System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 205 | Nebulizers | · Ultrasonic Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of atleast 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 206 | Operating Table (Trauma/Multifunction, electric/hydraulic driven) | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 207 | Operation Light | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 208 | Central O2 x Suction | •High power Motorized suction System Suitable for 25 Dental Units.  •Individual separator for 50 unit •Mechanical and Electrical Air bleed Opening System, Controlled with P.L.C (programmable Logic Controller.) •Three phase motors type •Output power: 2.2 / 3.5 kW-12A 50/60Hz 3600/rpm each motor •Control Panel board with VSD Inverter, safety Switch •Digital Display for Power supply. •Automatic Drainage system with Amalgam Separator •Max. vacuum level: 240mbar (continuous service) •Max. flow: 5000 l/min •Noise level: 77dB(A) •Electronic /Electric Panel With Electronic Level Sensors and Automatic Washing System. Complete with standard accessories | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 209 | General Surgery Set | General Surgery Set Complete in All Respect Bowl Lotion 250 mm (2 Nos) Gallipot/Cup S/S 180 ml (2 Nos) Gallipot/Cup S/S 250 ml (2 Nos) Tray Kidney shape with Lid S/S 200x30 mm (2 Nos) Tray Kidney shape with Lid S/S 300x50 mm (2 Nos) Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos) Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos) Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos) Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos) Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos) Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos) Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos) Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos) Forceps Towel Holding cross Action S/S 100 mm (8 Nos) Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos) Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos) Handle size 3 for scalpel blades size 10-15 (1 Nos) Handle size 4 Scalple blades size 20-24 (1 Nos) Needle Holder Kilner’s 165 mm (1 Nos) Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos) Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos) Scissors Mayo’s CO Flat 200 mm S/S (1 Nos) Scissors Mayo’s Straight 200 mm S/S (3 Nos) Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos) Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos) Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos) Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos) Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos) Retr. Walton, malleable copper 13mm length 305mm (1 Nos) Needle Aneurysm S/S. Small 146 mm (1 Nos) Pin Safety Mayo, forceps holding, 120mm (4 Nos) Suction Tube Mclndoe (1 Nos) Suction Tube Poole’s S/S 225 mm Sterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm. Made from imported stainless steel, Rust resistant and Satin finish Local Manufacturers only can Participate directly |  | **1** |  |  |
| 210 | General Ortho Set |  |  | **1** |  |  |
| 211 | Vascular Clamps |  |  |  |  |  |
| 212 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 213 | Tourniquet | Table Unit with Carrying Handle, Stand and Basket  pneumatic precision pressure regulator  Dual Channel  Separate programmed setting of 2 channel  Touch Key ped control easy checking and cleaning  Self Test of pressure sensor and system check  Fast cuff infltion and deflation  Regulator knob allows very precise regulation limits pressure to max. 600 mmHg  Automatic change to manual system during failure of compressed air  Arm / 35 cm Silicone /Velcro Cuff , autoclavable, easy to clean and dry quickly  Child / 30 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly  Infant / 20 cm Silicone /Velcro Cuff autoclavable, easy to clean and dry quickly | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 214 | ECG Machine | 8"TFT Color LCD shows the working status and ECG waveform. Check the waveform before printing to save record paper.12 Leads ECG simultaneous gathering, digital signal processing, to get the ECG waveforms of higher quality through the AC, DFT and EMG filtering of the ECG signals.Simultaneous display of 3/6/12 leads ECG waveform, and the state of printing mode, sensitivity, speed, filter etc, to be easy for contrast diagnosis.Multiply printing modes and formats, including 12\*1, 6\*2+1(rhythm lead), 6\*2, rhythm 12, rhythm 10, rhythm 8, rhythm 6, manual and freeze, etc. The length of printed wave can be adjusted and simultaneity the function of periodic printing is offered to satisfy different applications.The instrument has the functions of auto-analysis and auto-diagnosis of regular ECG waveform parameters, provides measurement parameters such as HR, P-R interval, P Duration, QRS Duration, Q-T interval, Q-Tc, P Axis, QRS Axis, T Axis, R(V5), S(V1), R(V5)+S(V1), etc and auto-diagnosis conclusion to reduce doctor's burden.AC/DC power supply. Built-in rechargeable lithium polymer battery. At the best DC state, it can standby for 4 hours, print continually for 90 min, and print 150 pieces of ECG waveform to satisfy the need of visiting patients and physical examination.Built-in MSF, can store more than 1000 cases, convenient for doctor's case review and information statistics.. System provides multiply printing speeds, including 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s, and abstract conclusion graph printing. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 215 | **Radiology X-Ray Machine with Procedure** | **Digital Mobile Radiography System**  Mobile x-ray unit, H.F. microprocessor controlled x-ray generator.  Power 32 kW.  Rotating anode x-ray tube focus 0.8-1.3mm.  Tube anode heat capacity 107kHU.  Max values 300mA, 100kV.  22’’ Touch screen LCD console with full screen image.  System Weight: maximum **280 kg.**  Portable strongly built detector.  Portable detector sustains a weight of 7.5kg.  The System is a digital mobile x-ray unit equipped with a **wireless 36x43cm flat panel detector.**  The System also features **+180\*/-180\* rotation of the x-ray monoblock arm** to facilitate exam execution in narrow spaces.  The System is 100% microprocessor controlled and equipped with a **large area 22” LCD high contrast touch screen console,**  The System has been designed with **extensive use of light-weight alloys,** thus allowing easy system mobility with minimal effort and no need for costly and heavy system motors.  The System is characterized with a “dead man” breaking system with a comfortable handle that facilitates the unit movement and positioning. The breaking system blocks the unit in any position, just releasing the handle. An **automatic closedown** system prevents the unit from remaining in ON mode for prolonged time.  The System is **100% DICOM compliant.** Once the imaging session is completed, the entire study can be automatically sent to a PACS, a review workstation, or a DICOM printer; a large number of studies can be also maintained locally for temporary storage. And, most importantly, the intuitive Graphical User Interface makes the entire process smooth and easy. Needless to say the System DICOM layer has been thoroughly tested and will seamlessly interface with any DICOM environment.  The System is equipped standard with the **image enhancement algorithm,** which makes it possible to expand the latitude of a single image and see all the relevant clinical details at the same time and without time-consuming Window/Level adjustment.   |  |  | | --- | --- | | ***RADIOLOGICAL CHARACTERISTICS*** | | | Maximum power | 32 kW | | Inverter frequency | 40 kHz | | Max ripple | < 1% at max power | | Exposure times | 2-2200 ms | | kV range | 40-100 kV | | mAs range | 40kv - 200 mAs  50kv – 180 mAs | | Max curent | 300 mA @ 100kv | | Operating mode | Two-points | | Anatomical techniques | Over 550 ANATOMICA TECHNIQUES can be stored | | X-ray tube type | Rotating anode | | X-Ray monoblock Colum arm rotation | ± 90 deg. | | Monoblock rotation around (X-Y axis) | X ±180 deg.  Y +103 deg. / -50 deg. | | Focus height min | 2022 mm | | Maximum anode heat content | 80 kJ (107 kHU) | | Thermal monoblock | 600 kj (800KHU) | | APR | * 1000 | | Maximum continuous anode heat dissipation | 300 W (24 kHU/min) | | **Internal Battery** for unplugged exams executions | Standard |  |  |  | | --- | --- | | ***OPERATING CHARACTERISTICS*** | | | Operator interface | Rear-lit High-Contrast 1280 x 1024 **22” LCD touch screen display** for all the operating parameters and messages for any possible anomalous conditions | | DAP camera | Optional | | Automatic closedown | The unit is fitted with an automatic closedown system minutes of not being used. This features prevent the unit from remaining on by mistake for long periods | | X-ray push button | Manual with double click and 4m extensible cable (standard) |  |  |  |  | | --- | --- | --- | | ***ACQUISITION SYSTEM*** | | | |  | Flat panel detector | Wire and WIFI | | IMAGE ACQUITION & STORAGE | Acquisition resolution  Scintillator  Detector dimensions  Pixel pitch  Max. spatial resolution | 3000x2372x16 bit  Cesium lodide (Csl)  35x43 cm  139 μm  3,6lp/mm | | Max images locally archived | 28000 images (no compression)  56000 images (lossless compression) | | Automatic LUT | YES, Linear and Logarithmic | | Image Enhancement | YES, Automatic | | Anatomic Programs | YES, preconfigured and editable | | DICO 3.0 | Print SCU | YES, (Optional) | | Store SCU/SCP | YES | | Worklist Management SCU | YES | | Media Storage SCU (CD/DVD) | Optional | | MPPS SCU | YES | | Storage Commitment SCU | YES | | Verification SCU/SCP | YES | | Query/Retrieve SCU | YES |  |  |  | | --- | --- | | ***MECHANICAL CHARACTERISTICS*** | | | X-ray monoblock arm rotation | + 180o | | Width [cm] | 74.5 cm | | Length [cm] | 152 cm | | Height [cm] | 148 cm | | Focus height max. [cm] | 202 cm | | Handling | Dead man brake | | Weight [kg] | **~** 280 kg |  |  |  |  | | --- | --- | --- | | ***ELECTRICAL DATA*** | | | | Power supply voltage | Single phase, 230 Vac (240V – 110Vac optional) +/-10% | | | Frequency | 50/60 Hz | | | Maximum Absorbed Current | 16 A | | | Line impedance | 0.4 Ω | | | ***ENVIRONMENT CONDITIONS*** | | | | Operating temperature | | From 15o C to 35o C | | Operating humidity | | From 30% to 75% | | ManufactureUSA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 216 | Mini Lab with All Basic Equipments |  | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 217 | Blood Bank Reserving |  | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 218 | Fowler’s Beds | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **25** |  |  |
| 219 | Bedside Lockers | Overall size: 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | Imported or Local Export Quality | **15** |  |  |
| 220 | Drip Stand | M.S. tubular pipe. Five legged heavy polypropylene base mounted on 5 cms castors. Double hook S.S. adjustable IV rod with a Bakelite knob.Pre-treated and epoxy powder coated. Knockdown construction. | Imported or Local Export Quality | **15** |  |  |
| 221 | Emergency | Any |  | **3** |  |  |
| 222 | Trolleys | Any |  | **2** |  |  |
| 223 | Trolleys BP |  |  | **3** |  |  |
| 224 | Suction Machine | Performance: High suction controller 0-750mmHg · Pressure Gauge: Diameter 63mm · Gauge Accuracy: +/- 2% · Controls: ON / OFF switch · 270deg vacuum control knob · Safety: Positive pressure restrictor · Filter: BactiTrap · Depth Approx. 100mm with probe 160mm · Complete with Autoclavable receiver jar x 2 and  Wall-mounted v-socket x 1. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 225 | Nebulizers | · Ultrasoinc Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of atleast 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclaveable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 226 | Steamer |  |  | **2** |  |  |
| 227 | Fully Loaded Ambulances | Ambulance 600 to 800 CC Supply of ambulance  fabricationWork Details:  Sliding/Fix stretcherOxygen cylinder kit complete with O2 flow meter and humidifier.  First Aid box complete Emergency lights on roof  complete with siren and hotter  Stickers on outer body, mentioning name of each respective SESSI Hospital and word “Ambulance” on front and back.  Attendant seatsComplete flooring With all accessories equipments with kits, cylinder and resuscitating equipment.  Complete with lights and other fixture like dustbin. In hooks, cervical neck collar, face mask necessary for the ambulance. Optional Items i.e AED Defibrillator.Make: UK/USA/ EEC/Japanii.  Suction Machine Oil free, piston pump for ambulance use. Make: UK/USA/ EEC/Japan  Multiparameter monitor  ECG /SpO2/NIBP/RESP/TEMP | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 228 | Standby Generator |  |  | **1** |  |  |
|  | **FOR SUKKUR MEDICAL CENTER 25 BEDED** |  |  |  |  |  |
| 229 | Male, Female and Pediatric Bed |  |  | **3** |  |  |
| 230 | Fowler’s Bed | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, | Imported or Local Export Quality | **25** |  |  |
| 231 | Bedside Lockers | Overall size : 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | Imported or Local Export Quality | **25** |  |  |
| 232 | BP Apparatus Trolley | Any - | Imported or Local Export Quality | **2** |  |  |
| 233 | BP Manual | · Lightweight aluminum case. · Recessed plastic manometer tube range 0-300mm Hg w/ shatter proof reservoir. · Provision for storage for bulb, valve tubing, and Velcro adult and pediatric cuff with bag. |  | **3** |  |  |
| 234 | Torch, Toung Depressor, Steamer |  |  | **2** |  |  |
| 235 | Nebulizers | · Ultrasonic Energy for uniform and highly dense particles of 1-5 microns size · Filtration rate of at least 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation · One extra flexible arm/delivery pipe | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 236 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 237 | Stretcher | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | Imported or Local Export Quality | **2** |  |  |
| 238 | Sterilizer |  | Imported or Local Export Quality | **4** |  |  |
| 239 | Trolleys | Patient Trolleys | Imported or Local Export Quality | **3** |  |  |
| 240 | Wheel Chairs | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality | **3** |  |  |
| 241 | Center O2 + Suction | Centralized Suction Venturi systemITEM 1WALL OUTLET.Outlet should have double lock quick connect and gas specific. The latch / locking release mechanism should be incorporated on the gas outlet with geometrical key indexing and should have a parking facility so that in the event of release of probe by pressing the spring loaded center, the probe / flow meter does not fall down.Gas outlets wall mounted, Complete in Box/casing gas Specific, Self sealingvalve, indexed to eliminate interchangeability/erroneous tapping of gasand cover plate.  ITEM 2: Air Venturi System with Gauge 25 Nos.The injector should be connected to wall source of pressure gas usingdirect probe or rail mounting system. Max. Vacuum 650 to 700 mbar.System should be supplied with 02liter Un Breakable &Sterilizablecollection jar.ITEM 3(a)Multiple Zone Valve Box with Monitoring Gauge for Suction 1 No.Microprocessor controlled with digital display of pressure.Each wall type zone valve box shall consist of the following Components.A steel valve box which can house two to four shut-off-ball valve with tubeextensions.  ITEM 3: (b) Multiple Zone Valve Box with Monitoring Gauge for two gases 2 Nos.Microprocessor controlled with digital display of pressure.Each wall type zone valve box shall consist of the following Components.A steel valve box which can house two to four shut-off-ball valve with tubeextensions.  ITEM 4: OXYGEN FLOW METER WITH HUMIDIFIER & PROBES: 25 Nos.With autoclave able and unbreakable humidifier bottle and probe.  ITEM 5: COPPER PIPING (IMPORTED FROM UK, EUROPE, USA): Supply and installation of seamless copper pipe, deoxidized andfor use in piped medical gas systems,Therefore it is guaranteed that the tubes areleak-tight, free of pores, blisters etc, Tubeis drawn seamless, according to HMT 2022 (HTM 02-01) Or equivalent.Material:-Copper tubes, including fixing clips forceiling and walls, sleeves, reducers, tee'sbends and soldering material.ITEM NO 6Oil Free Duplex Air Compressor System01 DUPLEX SYSTEM100% oil free 10 HP duplex Medical Air Compressor Plan with air dryer, filters, Bypass system, Electrical Panel Air Compressor System x 22 x Model: 7.5OP-9.5V/6AMotor Power (KW / HP): 3.7 / 5Piston Displacement: 541 lit/minFree Air Flow: 440 lit/minWorking Pressure: 9.5 KG/CM2G (135 PSI)Power Source: 380V / 3PH / 50HZNoise Level: 74 dB(A) at 1.5 MeterTank: 125 LitersAir Dryers2 x Dryer Model: AMH-12Volume Flow Rate @ Inlet: 1200 lit/min @80 ⁰CMax. Operating Pressure: 14 barg.Max. Ambient Temperature: 45 ⁰CPressure Dew Point: +3 ⁰CRefrigerant: R134 APower Source: 230V / 1PH / 50HZFiltration 2 x Pre-Filter: FT-012P – 1200 lit/min (3 Micron) ½”4 x After-Filter: FT-012X – 1200 lit/min (0.01 Micron) ½” 1.9) By Pass System (Local with Imported Fittings):Isolation Valves, Adaptors, Regulators & Pressure Switches.Electrical PanelSimple Controlled Electrical Panel, Pressure based Automatic Switching between Compressors, Contractors, Overload, Power Indication Lights and Circuit Breakers. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 242 | Autoclave | Capacity 16-30 liters (Bench top) · Microprocessor management and digital display · Automatic functioning · Thermodynamic initial vacuum · Thermical drying system · Fully automatic chamber water filling and safety mechanism | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 243 | Operation Table | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 244 | OT Light with all standard accessories | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 245 | Diathermy Machine | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 246 |  |  |  | **2** |  |  |
| 247 | General Set | General Surgery Set General Surgery Set Complete in All RespectBowl Lotion 250 mm (2 Nos)Gallipot/Cup S/S 180 ml (2 Nos)Gallipot/Cup S/S 250 ml (2 Nos)Tray Kidney shape with Lid S/S 200x30 mm (2 Nos)Tray Kidney shape with Lid S/S 300x50 mm (2 Nos)Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos)Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos)Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos)Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos)Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos)Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos)Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos)Forceps Towel Holding cross Action S/S 100 mm (8 Nos)Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos)Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos)Handle size 3 for scalpel blades size 10-15 (1 Nos)Handle size 4 Scalple blades size 20-24 (1 Nos)Needle Holder Kilner’s 165 mm (1 Nos)Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos)Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos)Scissors Mayo’s CO Flat 200 mm S/S (1 Nos)Scissors Mayo’s Straight 200 mm S/S (3 Nos)Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos)Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos)Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos)Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos)Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos)Retr. Walton, malleable copper 13mm length 305mm (1 Nos)Needle Aneurysm S/S. Small 146 mm (1 Nos)Pin Safety Mayo, forceps holding, 120mm (4 Nos)Suction Tube Mclndoe (1 Nos)Suction Tube Poole’s S/S 225 mmSterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos)Wire Cutting, Tungsten. Carbide inserts 180 mm.Made from imported stainless steel, Rust resistant and Satin finishLocal Manufacturers only can Participate directlyMust be CE Marked Product/ Export Quality | Imported or Local Export Quality | **1** |  |  |
| 248 | Ortho General Set | Any | Imported or Local Export Quality | **1** |  |  |
| 249 | Gynae Set | Any | Imported or Local Export Quality | **1** |  |  |
| 250 | Labour Room Set | Made from imported stainless steel, Rust resistant and Satin finish Export Quality Material Must be CE Marked Product | Imported or Local Export Quality | **1** |  |  |
| 251 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 252 | Bio Chemical Analyzer | Operating mode: Selective random access Assay methods: Kinetic, end pointer, fixed time, none linear, sample, blank, reagent blank, direct absorbance absorbance Test modes: Routine,Batch,STAT,Profiles Available on-line item: 17 mono or double reagent Momorizable items: 51 mono or double reagent Testing Speed: 100test/hour with end pointer assay method Test repetition: Automatic on command Calibration and controls: Automatic on command Sample plate capacity: 45positon for sera,STD and Controls Sample volume: From 5 to 200ul,with 1ul increment Reagent volume: From 300 to 900ul,with 1ul increment Optional system: Colorimetric Light source: Long life halogen lamp,12V,20W Detectors: 8 Silicon photodiodes UV/VIS Filter wavelength: 340-380-405-492-510-546-578-630nm Light path: 10mm Photometric linearity: From 0 to 2.500 Abs±1% Photometric sensitivity: 0.001Abs Reading cell: Continuous flow-cell.33ul Interface: Interface RS232 serial port Ambient temperature:18 to 35℃ Incubation temperature: 37℃±0.1℃ Mains voltage:220V,50Hz (Optional 115V,60Hz) Power: 140W Dimensions: 370\*650\*670mm Net Weight: 38KG Configurable Computer: Personal desktop computer(17”monitor) Operating system: Windows XP(2000,2003,Vista) Configurable printe:24pin stylus printer or inkjet printer or laser printer | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 253 | Centrifuge Machine | Consisting Of: · Angle Rotor · Maximum Speed 6000rpm; Rcf 6250g · Timing Up To 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, 24 X 7ml (With Adaptor) | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 254 | Microscope | Consisting Of:· Standard Microscope· Binocular Head, Adjustable Inter Pupillary Distance· Rotating Quadruple Nose Piece· Adjustable Stage With Vernier Scale And Spring Clip ForSlides,· Co Axial Controls· Condenser Carrier, Vertically Adjustable· Bright field Condenser, N.A. 0.9, Flip Top· Aperture Iris Diaphragm· Kohler Illumination· Halogen Illuminator 6v 20wEyepiece Lenses:-· X 8 Wide field, Focusable· X 10 Wide field, FocusableObjective Lenses:-· X 10 Achromat N.A. 0.25· X 40 Achromat N.A. 0.65· X 100 Achromat N.A. 1.25, Oil ImmersionOptions And Accessories:-· Blue Iris Aperture Filter· Oiler· Spare Bulbs X 10· Carrying Box· Dust Cover | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 255 | X-Ray Machine with Procedure |  |  |  |  |  |
| 256 | **Ultrasound Machine** |  |  | **1** |  |  |
| 257 | ICU Beds | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **5** |  |  |
| 258 | Ventilator (From Adult to Neonates) | Display Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG) Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity: Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric): Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit  (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 259 | Cardiac Defibrillator | DisplayScreen Type: High-resolution display. Screen Size: 5 inches. Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected.Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shockable rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.Country of (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **1** |  |  |
| 260 | Crash Trolley with all standard accessories | Crash trolley with 4 swivel castors with brakes Having 4 drawers or more Top tray for defibrillator Side tray for instruments Complete with adult and child resuscitator with face mask. Venture suction with collection jar Container for waste Drip stand support Cardiac board Oxygen regulator Flow meter with humidifier |  | **3** |  |  |
| 261 | ABG Machine | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampules) Quality control kit – level 2 (30 ampules) Quality control kit – level 3. (30 ampules) Easy blood gas service manual | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 262 | Pulse Oximeter | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 263 | Emergency Cupboard |  |  | **3** |  |  |
| 264 | Non-Invasive Blood Pressure Apparatus | NIBP SpecificationsCuff Pressure Range: (Normal operating range)0 to 290 mmHg (adult/ped)0 to 145 mmHg (neonate)Maximum Determination: 120 s (adult/ped) 85 s (neonate)Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg (Neonate)Systolic: 30 to 290 mmHg (adult/ped) 30 to 140 mmHg (neonate)MAP: 20 to 260 mmHg (adult/ped) 20 to 125 mmHg (neonate)Diastolic: 10 to 220 mmHg (adult/ped) 10 to 110 mmHg (neonate)SpO2 Measurement RangeSpO2: 1 to 100%Pulse Rate: 30 to 250 bpmPerfusion Range: 0.03 to 20%Adult: 70 to 100% +/-2 digits Whichever is greater (without motion)Neonate: 70 to 100% +/-3 digits (without motion)Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion)Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion)Pulse RateAdult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)Low Perfusion: 30 to 250 bpm +/-3 digitsBattery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. (Please provide Vis-a-Vis specifications reference/details on attached product data sheet with page number) | ManufactuerUSA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 265 | Multipara Monitor | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 266 | Stretcher | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. |  | **2** |  |  |
| 267 | Ambu Bag | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 268 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia.Front castors, fixed aluminum foot steps |  | **2** |  |  |
| 269 | Laryngoscope | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2,3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle, | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 270 | Emergency Cupboard |  |  |  |  |  |
| 271 | Weight Machine | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | Manufacturer  USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 272 | CTG Machine | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified |  |  |  |
| 273 | Non-Invasive Blood Pressure Apparatus | NIBP Specifications Cuff Pressure Range:  (Normal operating range) 0 to 290 mmHg (adult/ped) 0 to 145 mmHg (neonate) Maximum Determination: 120 s (adult/ped)  85 s (neonate) Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg  (Neonate) Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate) MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate) Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate) SpO2 Measurement Range SpO2: 1 to 100% Pulse Rate: 30 to 250 bpm Perfusion Range: 0.03 to 20% Adult: 70 to 100% +/-2 digits Whichever is greater (without motion) Neonate: 70 to 100% +/-3 digits (without motion) Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion) Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion) Pulse Rate Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion) Low Perfusion: 30 to 250 bpm +/-3 digits Battery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection. Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active. Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | **2** |  |  |
| 274 | Forceps | Any |  |  |  |  |
| 275 | Syringe Box | Any |  | **5** |  |  |
| 276 | Stitching Box | Any |  | **5** |  |  |
| 277 | BP Apparatus | Sphygmomanometer - Mercury Type Mercury Type Mercury Type Should be Portable mercurial type, have ISI mark, ON and OFF provision for mercury reservoir, measuring range from 0 to 300 mmHg, Should be provided with adult arm cuffs of size medium & large and pediatric cuff. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute. The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm.The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking, The inflating bulb should be soft and should not have any joints or ridges. The mercury used should be clean, double distilled and of 99.9% purity. The fastening arrangements of the cuff should be of hook and loop type (Velcro).The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.The tubes should be fitted with male and female leur connectors. | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | **3** |  |  |
| 278 |  |  |  |  |  |  |
| 279 | Wheel Chair | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | Imported or Local Export Quality |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **FOR**  **TANDO ADAM MEDICAL CENTER 25 BEDED** | |  | | |  | | **Q’ty** | | **U/Price** | | **Tot.**  **Price** | |
| 280 | | Male, Female and Pediatric Bed | |  | | |  | | **3** | |  | |  | |
| 281 | | Fowler’s Bed | | Bed Fixed Height Fowler Position Fixed height, 4 section bed with 3 crank assisted rising backrest, tilt 12-degree head down, 6-degree foot down, 5" castors with individual brakes, all round buffers included 5” Mattress of 2.5 lbs/cft density with water proof flame retardant Sterilizable cover, Safe working load 180kg, Size: Length 80" Width 36” Height 24" approx, 5" castors with individual braking• Weight 86kg, | | | Imported or Local Export Quality | | **25** | |  | |  | |
| 282 | | Bedside Lockers | | Overall size: 40L x 40W x 82H cms. Complete locker box made of 22G CRC machine pressed sheet closed from three sides and a suitable drawer for extra storage. Stainless steel top of 22G in matt finish. Complete locker mounted on two PVC Stumps in front and two 5 cms. dia castors at the back for easy moving. Pre-treated and epoxy powder coated finish. | | | Imported or Local Export Quality | | **25** | |  | |  | |
| 283 | | BP Apparatus Trolley | |  | | | Imported or Local Export Quality | | **2** | |  | |  | |
| 284 | | BP Manual | | · Lightweight aluminium case. · Recessed plastic manometer tube range 0-300mm Hg w/ shatter proof reservoir. · Provision for storage for bulb, valve tubing, and velcro adult and paediatric cuff with bag. | | |  | | **3** | |  | |  | |
| 285 | | Torch, Tung Depressor, Steamer | |  | | | Imported | | **2** | |  | |  | |
| 286 | | Nebulizers | | Ultrasonic Energy for uniform and higly dense particles of 1-5 microns size · Filtration rate of at least 95% of 0.3 micron or larger dust particles to provide purified air for aerosol · Autoclavable delivery pipes · Mobile stand with solution bottles for safety · Nebulizing rate of 4 ml/min with particle Appr.size of 1-5 microns · Nebulizer time setting from 0-30 mins. · Medication cup capacity: 150ml · Power 220 Volts/50 Hz with rechargeable battery operation, One extra flexible arm/delivery pipe | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 287 | | Weight Machine | | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 288 | | Stretcher | | Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | | | Imported or Local Export Quality | | **2** | |  | |  | |
| 289 | | Sterilizer | |  | | |  | | **4** | |  | |  | |
| 290 | | Trolleys | |  | | | Imported or Local Export Quality | | **3** | |  | |  | |
| 291 | | Wheel Chairs | | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | | | Imported or Local Export Quality | | **3** | |  | |  | |
| 292 | | Center O2 + Suction | |  | | |  | |  | |  | |  | |
| 293 | | Autoclave | | Capacity 16-30 litres (Bench top) · Microprocessor management and digital display · Automatic functioning · Thermodynamic initial vacuum · Thermical drying system · Fully automatic chamber water filling and safety mechanism | | |  | | **1** | |  | |  | |
| 294 | | Operation Table | | * Electro Hydraulic OT Table Radiolucent table top, X-Ray and C-arm accessible * 4-5 sections complete with welded seam mattresses * Table should have manually operating modes in case of power failure * Base of the table stainless steel cover * 4-large double swivel castors, 2 castors steering. Central locking mechanism * Table top sliding system up to 250 mm either side or better * 0-115mm reversible mechanical kidney elevator or better * Tabletop length1030 mm or more with head section and split leg sections 2130 mm or more * Tabletop width: 520 mm or more * Height adjustment from 600 mm to 950 mm electrically operated or better * Lateral tilting either side 20° electrically operated * Trendelenburg / reverse trendelenburg +/-30° electrically operated * Back rest of the table adjustment +80°/-45° by gas spring mechanism * Split leg section adjustment manually operated * Standard head rest should be manually operated * Patient weight capacity: 150-200 kg * Mains: 100-240 VAC, 50 Hz, single phase * Protection Class: Class 1 type B * Batteries: 2x NP12 – 12 FR, 12 V, 12 Ah. * Standard operation: approx. 55 procedures * **Accessories** * Rigid anesthesia Screen (01 No) * Body strap large width (01 No) * X-Ray Cassette Holder (01 No) * Simple Arm Board (01 Pair) * Patient Fastening Belts (01 pair) * Hand set (01 No) * Compatible clamps (04 Nos.) * I.V. rod (01 No)   **OPTIONAL**  Orthopedic Attachment should be quoted separately | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 295 | | OT Light with all standard accessories | | White LED Shadowless Operating lamp with spring balanced ceiling suspension. Hematiclly sealed dust proof light head.  Light intensity of main light min.160,000 Lux at 1 meter distance  Light intensity of satellite min. 160,000 Lux at 1 meter distance  Increase/decrease light intensity facility with intensity setting indicators  Natural colour rendition 4400° Kelvin  Color rendition index of 95  Field Size adjustable Wavelens Controlled in the sterile field  Light field diameter 250 - 300mm  Average LED life 40,000 hours  Complete with sterilizeable handles (02)  Power consumption not more than 70W  Complete with original battery backup for at least 01 hour or more (from Same manufacturer)  220-240 Volt, 50 Hz | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 296 | | Diathermy Machine | | Bipolar Solid state electrosurgical unit 400Watt.  Microscope based electrosurgical unit for normal and under water cutting usage.  Controls for cutting, coagulation, spry and blend.  Mono polar coagulation power of 120 watts.  Bipolar coagulation 120 watts.  Bipolar cut 80 to 120 watt.  Spray coagulation 120 mode.  Floating output with bipolar coagulation.  Laparoscopic mode.  Monopolar immediate and simplified tissue coagulation with minimal tissue damage.  Multiple effect settings.  Digital 7-segment display.  Audio and visual alarms of fault occurrence.  Earth free patient circuit plate.  Double paddle foot switch, explosion proof.  Monopolar forceps with coed.  Trolley Pak made with two shelves having anti-static lockable wheels.  200V/230V, 50hz. | | | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 297 | | Suction Machine | | Performance: High suction controller 0-750mmHg· Pressure Gauge: Diameter 63mm· Gauge Accuracy: +/- 2%· Controls: ON / OFF switch· 270deg vacuum control knob· Safety: Positive pressure restrictor· Filter: BactiTrap· Depth Approx. 100mm with probe 160mm· Complete with Autoclavable receiver jar x 2 and wall-mounted v-socket x 1. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |  | |  | |
| 298 | | General Set | | General Surgery Set  General Surgery Set Complete in All Respect Bowl Lotion 250 mm (2 Nos) Gallipot/Cup S/S 180 ml (2 Nos) Gallipot/Cup S/S 250 ml (2 Nos) Tray Kidney shape with Lid S/S 200x30 mm (2 Nos) Tray Kidney shape with Lid S/S 300x50 mm (2 Nos) Forceps artery Kocher COF BJ.S/S 180 mm (20 Nos) Forceps artery Spencer Wells CO Flat (bj). S/S 200 mm (15 Nos) Forceps Dissecting Plain serrated jaws S/S 150 mm (6 Nos) Forceps Dissecting Plain serrated jaws S/S 250 mm (1 Nos) Forceps Dissecting narrow , serrated jaws S/S 200 mm (1 Nos) Forceps Dissecting Lane’s 2x3 teeth 180 mm (3 Nos) Forceps Dissecting Waugh, fine serrated jaws 1x2 Tth 200 mm (1 Nos)  Forceps Tissue Allis fine 4x5 Teeth BJ.S/S 150 mm (4 Nos) Forceps Towel Holding cross Action S/S 100 mm (8 Nos) Forceps Towel Moynihan, Double Teeth (bj) 190 mm (4 Nos) Forceps Sponge Holding Rampley BJ S/S 240 mm (5 Nos) Handle size 3 for scalpel blades size 10-15 (1 Nos) Handle size 4 Scalple blades size 20-24 (1 Nos) Needle Holder Kilner’s 165 mm (1 Nos) Needle Holder Mayo Hegar BJ.S/S 180mm (2 Nos) Scissor Blunt Point Straight SJ. S/S 180mm (1 Nos) Scissors Mayo’s CO Flat 200 mm S/S (1 Nos) Scissors Mayo’s Straight 200 mm S/S (3 Nos) Scissors Mclndoe’s CO Flat 190 mm S/S (1 Nos) Retr. Deaver #1-Blade 25mm, Length 305mm (1 Nos) Retr. Lange beck, H/H 26x64 Blade, 210 mm Long (2 Nos) Retr. . Deaver #5-Blade 75mm, Length 305mm (1 Nos) Retr. Morris Double-ended (52x38) & (52x64) mm (2 Nos) Retr. Walton, malleable copper 13mm length 305mm (1 Nos) Needle Aneurysm S/S. Small 146 mm (1 Nos) Pin Safety Mayo, forceps holding, 120mm (4 Nos) Suction Tube Mclndoe (1 Nos) Suction Tube Poole’s S/S 225 mm Sterilizing and storing case St.St. with filters 260x150x50 mm (2 Nos) Wire Cutting, Tungsten. Carbide inserts 180 mm. Made from imported stainless steel, Rust resistant and Satin finish Local Manufacturers only can Participate directly Must be CE Marked Product/ Export Quality | | |  | | **1** | |  | |  | |
| 299 | | Ortho General Set | |  | | |  | | **1** | |  | |  | |
| 300 | | Gynae Set | |  | | |  | | **1** | |  | |  | |
| 301 | | Labour Room Set | | Made from imported stainless steel, Rust resistant and Satin finish Export Quality Material Must be CE Marked Product | | |  | | **1** | |  | |  | |
| 302 | | Ambu Bag | | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |  | |  | |
| 303 | | Bio Chemical Analyzer | | Operating mode: Selective random access Assay methods: Kinetic, end pointer, fixed time, none linear, sample, blank, reagent blank, direct absorbance ,Test modes: outine,Batch,STAT,Profiles Available on-line item: 17 mono or double reagent Momorizable items: 51 mono or double reagent, Testing Speed: 100test/hour with end pointer assay method,Test repetition: Automatic on command,Calibration and controls: Automatic on command,Sample plate capacity: 45positon for sera,STD and Controls, Sample volume: rom 5 to 200ul,with 1ul increment Reagent volume: From 300 to 900ul,with 1ul increment Optional system: Colorimetric, Light source: Long life halogen lamp,12V,20W Detectors: 8 Silicon photodiodes UV/VIS Filter wavelength: 340-380-405-492-510-546-578-630nm Light path: 10mm, Photometric linearity: From 0 to 2.500 Abs±1%,Photometric sensitivity: 0.001Abs, Reading cell: Continuous flow-cell.33ul,Interface: nterface RS232 serial port,Ambient temperature:18 to 35℃,Incubation temperature: 37℃±0.1℃,Mains voltage:220V,50Hz (Optional 115V,60Hz) Power: 140W, Dimensions: 370\*650\*670mm, Net Weight: 38KG, Configurable Computer: Personal desktop computer(17”monitor)FDA/CE/JIS Certified Operating system: Windows XP(2000,2003,Vista) Configurable printe:24pin stylus printer or inkjet printer or laser printer | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 304 | | Centrifuge Bench Top Multiuse | | Consisting Of: · Angle Rotor · Maximum Speed 6000rpm; Rcf 6250g · Timing Up To 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, 24 X 7ml (With Adaptor) | | |  | |  | |  | |  | |
| 305 | | Microscope | | Consisting Of:· Standard Microscope· Binocular Head, Adjustable Inter Papillary Distance· Rotating Quadruple Nose Piece· Adjustable Stage With Vernier Scale And Spring Clip ForSlides,· Co Axial Controls· Condenser Carrier, Vertically Adjustable· Bright field Condenser, N.A. 0.9, Flip Top· Aperture Iris Diaphragm· Kohler Illumination· Halogen Illuminator 6v 20wEyepiece Lenses:-· X 8 Wide field, Focusable· X 10 Wide field, FocusableObjective Lenses:-· X 10 Achromat N.A. 0.25· X 40 Achromat N.A. 0.65· X 100 Achromat N.A. 1.25, Oil ImmersionOptions And Accessories:-· Blue Iris Aperture Filter, · Oiler, · Spare Bulbs X 10· Carrying Box· Dust Cover | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 306 | | X-Ray Machine with Procedure | | Exposure range at least 0.5–200 mAs Shortest exposure time: not more than 10ms. Max. Exposure time: not less than 5 sec. Tube head must be rotatable in all planes. Adjustable collimator and light marker Easy to use and to move. Non automotive Two point technique – kV and mAs. High- frequency X-ray generator with multipulse voltage provider. The touch-screen keys and digital display of kV and mAs values. Output: not less than 2.5kW. 120 kV, 40mA. Focal spot not more than 1 mm. Collimator: rotatable ± 90° Max. horizontal extension at least 800mm Power Requirements 220 V ±10%, 50Hz | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 307 | | Fully Digital beam Ultrasound color system | | Portable Grey Scale machine with B mode (2 D), M mode, Color Doppler and optional CW, Tissue harmonics, Compound imaging, Trapezoid imaging, panoramic imaging with Processing channels of 90000 or More  Color Doppler and Continuous Wave Doppler Ultrasound.  External 2 Probe Connector (optional)  Applications: Abdominal, OBS, Gynae, Breast, Small Parts and superficial, Musculoskeletal, Vascular, Transvaginal, and Pediatrics  Cine Memory of 128MB.  Internal Hard disk Drive up to 500GB.  Frame Rate: 300 fps or more  Separate trolley available  Machine must have options of Trapezoidal Imaging, Needle Visualization Software,Speckle Reduction Filter for improve the grainy images  Quick Gain/ Auto Optimization.  Monitor Screen Size: 15” Screen 1300\*1280 pixels TFT LCD  Post processing of 2D, Color and PW with complete features like Dynamic range Auto optimization etc.  Spatial Compounding imaging available on Convex, Linear and Endocavity Probe.  Tools to measure the fetal biometry measurements (FL, BPD, HC,AC) and the breast lesions automatically.  Built in training tool to guide the end user to do any procedure (to include images and videos).  Option to compare Exams, also during acquisition, the current exam helping to reduce missed exam steps and the need to recall patients for additional imaging.  Zoom: Read and write Zoom compulsory  Outputs: HDMI, Ethernet, External Audio Out, and USB Connector.  FreeHand 3D  Probes:  Convex Probe:2-5MHz  Applications: Abdomen, OB/Gyn, Vascular, Urology.  Endocavity Probe:-10MHz  Applications: OBS/Gyn, Urological/ Transvaginal and Transrectal.  **Optional :**Linear Probe: 4-12MHz  Applications: Vascular, Small Parts and Pediatrics  Accessories: 2KVA UPS and B/W Thermal Printer | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 308 | | ICU Beds | | 4-section mattress platform, on 2 telescopic columns  Height adjustment from 40 to 77 cm by actuatorand External dimensions 223 x 99.5 cm  Trendelenburg and reverse Trendelenburg, mattress platform tilt adjustment ±16 degrees, adjustment of backrest and thighrest by actuator  Back rest angle: 70° at least with pressure relieveing function in pelvic area  Thigh rest 35° at least  CPR mechanical unblocking of backrest  Battery Backup  Bed extension  Hand set with safety activation GO button; mattress platform height adjustment backrest and thighrest position adjustment, autocontour adjustment, with LED flashlight and foot controls height adjustment  Split plastic side rails  X - Ray cassette holder - inserted under beck rest from the head end side.  4-castors Ø150 mm Tente Motion, central control system from 2 points  4 holders for infusion stand, lifting pole and IV Pole  Safe working load 230 to 250 kg  **Mattress** (Imported same Manufacturer)  HR polyurethane foam with vapor permeable sewed cover  **Bed Side Cabinet** (Imported same Manufacturer)  Upper drawer, niche, large bottom cupboard, cupboards are accessible, corpus made from zinc plated steel, fronts of the drawers and cupboards from HPL boards four 75 mm double castors, 2 of which can be braked  **Over Bed Table** (Imported same Manufacturer)  Height adjustable HPL eating board with protective plastic edges, 4 double castors: 50 mm in diameter, 2 with brakes, Table with tilt able board one side  Note: **Complete Package from same manufacturer** | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **5** | |  | |  | |
| 309 | | Ventilator for Adults to Neonates | | Display:Minimum15-inch full-Touch full color LCD screen with adjustable viewing angle, Smart Touch Interface with Navigation Control. Menu-Free Access to Past, Present and Future Views, Swipe Screen Touch Screen Technology Specification Software Complete range of ventilation modes and active exhalation valve to allows spontaneous breathing in all modes. Modes of Ventilation: Volume Control ventilation (VCV), Pressure control ventilation (PCV), Bilevel Volume Guaranteed (Bilevel-VG)Airway Pressure Release Ventilation (APRV) , Volume Support (VS) , SIMV-VC , SIMV- PC, Bi Level mode CPAP/PS, Leak compensation, Airway Resistance Compensation, Apnea back up , Non Invasive Ventilation Tidal Volume: Tidal volume range 2 – 2000 ml with capability of 200 L/min Peak Inspiratory flow. Triggering Sensitivity:Flow - Pressure Includes the Following Procedures: Manual Breath, Intrinsic PEEP measurement, Spontaneous breathing trial (SBT), 100 % O2 maneuver Inspiratory Hold , Expiratory Hold Spirometry: Spirometry display of 3 different loops , Pressure / Volume, , Flow / Pressure, , Flow / Volume Trends (Graphical & Numeric):Graphic and numeric trending (minute by minute) of all set and measured parameters up to 3 days with color waveforms and alarms/ procedures settings. Patient Range: Ventilator unit with gas connection and electrical supply. Integrated ventilation and monitoring platform for adults, pediatric, Neonate Expiratory Valve: Quick-release expiratory valve and easy to clean Nebulizer: Integrated built-in advanced nebulization system, Oxygen Monitoring: O2 monitoring by paramagnetic maintenance free sensor Lung Mechanics RSBI – RAW - VITAL CAPACITY – NIF - AIRWAY OCCULUSION PRESSURE Battery Backup Advanced power management, prevents accidental shutoff with back-up battery up to 85 minutes.  Ventilator should be able to run on Hospital Central Gas Supply (Should not have Turbine based system) Accessories • Patient circuit support arm • HOSE ASSY O2  • HOSE ASSY AIR  • Patient Breathing Circuit • Nebulizer Kit | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |  | |  | |
| 310 | | Cardiac Defibrillator | | DisplayScreen Type: High-resolution display. Screen Size: 5 inches., Sweep Speed: 25 mm/sec.,Viewing Time: 4 seconds. Channels: 2.DefibrillatorWaveform: Damped sinusoid or Rectilinear Biphasic.Energy Selection: Selectable at 1, 2, 3, 4, 5, 6, 7, 8,9, 10, 15, 20, 30, 50, 75, 100,150, 200, 300, 360 joules. (Delivered into 50Ω load.) Selected using controls on sternum paddle or device front panel.Rectilinear Biphasic energy selection up to 200 joules maximum.GeneralSize: 6.8 in (17.3 cm) high x 10.3 in (26.2 cm) wide x 8.2 in (20.8 cm) deep.Weight: 11.5 lb. (5.23 kg) with Multi-Function Cable and battery; 13.5 lb. (6.14 kg) with paddles.ECG MonitoringPatient Connection: 3-lead ECG cable, 5-lead ECG cable, 12-Lead ECG cable, paddles or MFE Pads.Selectable by front panel switch.Input Protection: Fully defibrillator protected. Special circuit prevents distortion of ECG by pacer pulse. (Pacer version only.)Implanted Pacemaker Spike Display: Dedicated circuitry detects most implanted pacemaker spikesand provides standard display marker of spike on ECG trace.Bandwidth: 0.5-40 Hz (-3 dB) or 0.5-30Hz; 0.05-150 Hz diagnostic.Lead Selection: Displayed on monitor.ECG Size: 0.5, 1, 1.5, 2, 3 cm/mV – display on monitor.Heart Rate: Digital display 0-300 bpm ±5%.Heart Rate Alarm: On/Off displayed on monitor.User-selectable, tachycardia 60-280 bpm, bradycardia 20-100 bpm.1 Volt ECG Out: 1.0 volt/cm of deflection on strip chart recorder. < 25 ms delay from patient ECG input.Display Format: Non-fade moving bar display.Smart Alarms™: Beeper/voice prompts indicate shockable rhythm.Battery PacksType: Rechargeable, sealed lead acid. Recharge Time: 4 hours or less with integral charger.Operating Time: For a new, fully charged battery pack at 20°C: 35 defibrillator discharges at maximum energy , or 3 hours of continuous ECG monitoring, or 2.5 hours of continuous ECG monitoring/pacing at 60 mA, 80 beats/min.Country of Origin: USA/Europe/Japan | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **1** | |  | |  | |
| 311 | | Crash Trolley with all standard accessories | | Crash trolley with 4 swivel castors with brakes Having 4 drawers or more Top tray for defibrillator Side tray for instruments Complete with adult and child resuscitator with face mask. Venture suction with collection jar Container for waste Drip stand support Cardiac board Oxygen regulator Flow meter with humidifier | | | Imported or Local Export Quality | | **3** | |  | |  | |
| 312 | | ABG Machine 01 | | Easy blood gas analyzer 220v English version Reagent module 800ml Ph electrode Pco2 electrode Po2 electrode Reference electrode Pump tubing Red test dye 50ml Printer paper 5 rolls Daily cleaning solution 50ml Sampler (probe wiper, sample probe) Troubleshooting kit Quality control kit – level.1 (30 ampules) Quality control kit – level 2 (30 ampules) Quality control kit – level 3. (30 ampules) Easy blood gas service manual | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 313 | | Pulse Oximeter | | Real-time SpO2% Oxygen Saturation Range (%SpO2) Measurement range at least 70-99% Accuracy (%SpO2) ±2% at100%~80%, ±3% at 80%~70% Real-time heart rate (BPM) Pulse Measurement range 30-250 bpm Accuracy ± 1 bpm at 30~250 bpm Display: SpO2,Pulse rate, Pulse signal wave, Max/Min setup (SpO2% / BPM) Power Requirements internal rechargeable battery providing an operating time of at least 8 hours Compact design for easy transportability Accessories: 3 rolls of paper - Operation manual - 1 adult reusable finger Sensor - 1 Neonate Sensor | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 314 | | Non-Invasive Blood Pressure Apparatus | | NIBP SpecificationsCuff Pressure Range: (Normal operating range)0 to 290 mmHg (adult/ped)0 to 145 mmHg (neonate)Maximum Determination: 120 s (adult/ped) 85 s (neonate)Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg (Neonate)Systolic: 30 to 290 mmHg (adult/ped) 30 to 140 mmHg (neonate)MAP: 20 to 260 mmHg (adult/ped) 20 to 125 mmHg (neonate)Diastolic: 10 to 220 mmHg (adult/ped) 10 to 110 mmHg (neonate)SpO2 Measurement RangeSpO2: 1 to 100%Pulse Rate: 30 to 250 bpmPerfusion Range: 0.03 to 20%Adult: 70 to 100% +/-2 digits Whichever is greater (without motion)Neonate: 70 to 100% +/-3 digits (without motion)Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion)Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion)Pulse RateAdult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion)Low Perfusion: 30 to 250 bpm +/-3 digitsBattery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection.Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active. 11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active.FDA/CE/JIS CertifiedCharge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 315 | | Multipara Monitor | | Modular Bedside monitor for display of vital sign monitoring of Adult, Neonate, Paeds.  **Operating Features and Characteristics:**  Non fade TFT colour display  Electro-surgical interference suppression/protection  Defibrillator protection  Freeze and cascade facility.  Waveform traces speed; 25 / 50mm/sec.  **Screen size: min. 17”** TFT LCD touch color display.  **ECG:**  Numeric heart rate  ECG curves: 7 curves review or more.  **NON-INVASIVE BLOOD PRESSURE (NIBP):**  Method: Oscillometric principle  Numeric: systolic, diastolic and mean pressure  Selectable auto inflate interval settings  Rising cuff/continuous pressure display.  **TEMPERATURE:**  2 channel Numeric: temperature selectable in ºC/ºF.  **PULSE OXIMETRY:**  Numeric: 0-100% oxygen saturation measuring range.  Waveform-plethysmograph pulse with pulse strength indication.  Reusable sensor electrode.  **ST-Segment analysis**  **Arrhythmia analysis**  **RESPIRATION:**  Breath rate display and settable apnea alarms.  Sweep speed; 6.25, 12.5 mm/sec.  Measurement range: Adults: 0 - 120 bpm  Pediatric/Neonatal: 0 - 150 bpm  **OTHER FEATURES:**  Trend data; graphical and tabular  Storing graphical and tubular trends of all parameters of the last 168 hours.  Up to 12 waves shown on screens.  **ALARMS:**  High & low (settable) on all parameters  Visual and audible indication of alarms.  **Built in Printer** Two Channel  **OPERATING REQUIREMENTS :**  Ac 220v/50HZ  Built-in rechargeable battery for at least 60min AC power failure at full parameter. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 316 | | Stretcher | | SS Single crank, rubber bumper guards on all sides, mobile on 23 cm dia. Rubber castors, removable tarpaulin / Rexene stretched stretcher. provided with oxygen cylinder holder, utility tray and I.V pole, safety side guards with revolving latch for up & down adjustment. | | | Imported or Local Export Quality | | **2** | |  | |  | |
| 317 | | Ambu Bag | | Ambu Bag Adult with manometer 100% latex-free Ambu bags  Built-in pressure limitation  Suitable for adults  with face mask and single shutter valve. Autoclavable at 134°C. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 318 | | Wheel Chair | | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | | | Imported or Local Export Quality | | **2** | |  | |  | |
| 319 | | Laryngoscope | | Laryngoscope with Fiber optic illumination · Blade type Macintosh in quantity three (3) Size 2, 3, 4 with fiber optic illumination · Fitting Blade: hook on fitting · Tip adjustable on the blade to provide the Clinician with greater flexibility, especially in cases of difficult incubating · Uses four different angles between the blade and handle i.e. 90 degree, 45 degree 180 degree and 135 degree (Standard) · With four locked position light remains illuminated during changing from one position to another · Complete Set provided in Zippered Case · SS or chrome plated knurled finish Handle Miller type to be quoted as option | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 320 | | Weight Machine | | Doctor scale. Chrome plated decoration ring Capacity: 130kg / 300lb. Division: 1 kg With extra big display and platform Non-slip cover | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 321 | | CTG Machine | | 12-inch foldable color screen  12-crystal water-proof ultrasound transducer  Data display in a real-time mode, 60-hour waveform playback  Sound signals are saved each hour and can be played back  Sound and light alarms with adjustable range  Transducer for automatic accurate detection  Built-in network interface  Lightweight, space-saving, easy to fix on the table or wall  Built-in battery  Software allows data transfer to PC  Central monitoring system MFM-CNS is available as option  Built-in CTG analysis system  Technique Ultrasound pulse doppler with autocorrelation  Ultrasound frequency 1,0 MHz  FHR range 50 bpm – 240 bpm  External TOCO 0 % – 100 %, 135 g correspond to effort 1  Pressure measurement range 100%  Fast print (saved lines) Up to 25 mm/sec  Data transference interface USB / RS232, local network support | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | |  | |  | |  | |
| 322 | | Non-Invasive Blood Pressure Apparatus | | NIBP Specifications Cuff Pressure Range:  (Normal operating range) 0 to 290 mmHg (adult/ped) 0 to 145 mmHg (neonate) Maximum Determination: 120 s (adult/ped)  85 s (neonate) Overpressure Cutoff: 300 to 330 mmHg adult Pead 150 to 165 mmHg  (Neonate) Systolic: 30 to 290 mmHg (adult/ped)  30 to 140 mmHg (neonate) MAP: 20 to 260 mmHg (adult/ped)  20 to 125 mmHg (neonate) Diastolic: 10 to 220 mmHg (adult/ped)  10 to 110 mmHg (neonate) SpO2 Measurement Range SpO2: 1 to 100% Pulse Rate: 30 to 250 bpm Perfusion Range: 0.03 to 20% Adult: 70 to 100% +/-2 digits Whichever is greater (without motion) Neonate: 70 to 100% +/-3 digits (without motion) Adult/Neonate: 70 to 100% +/-3 digits (during clinical motion) Low Perfusion: 70 to 100% +/-2 digits (during clinical low perfusion) Pulse Rate Adult/Neonate: 30 to 250 bpm: +/- 2 digits or +/- 2%, whichever is greater, (without motion) 30 to 250 bpm: +/- 5 digits (during motion) Low Perfusion: 30 to 250 bpm +/-3 digits Battery Capacity: 6V; 3.3 Ahr sealed lead acid battery protected by internal auto-resetting fuse and thermal protection. Battery Life: 8.1 hours with a usage scenario of: NIBP determinations every 15 minutes with SpO2 and temperature active.  11.5 hours non-SpO2 versions with a usage scenario of: NIBP determinations every 15 minutes with temperature active. Charge time: Approximately 5 hours from full discharge when the monitor is off. Approximately 8 hours when the monitor on. | | | ManufacturerUSA, Europe & Japan  FDA/CE/JIS  Certified | | **2** | |  | |  | |
| 323 | | Forceps | | All Standard Sizes / CE Marked Export Quality | | |  | |  | |  | |  | |
| 324 | | Syringe Box | |  | | |  | | **5** | |  | |  | |
| 325 | | Stitching Box | |  | | |  | | **5** | |  | |  | |
| 326 | | BP Apparatus | | Sphygmomanometer - Mercury Type Mercury Type Mercury Type Should be Portable mercurial type, have ISI mark, ON and OFF provision for mercury reservoir, measuring range from 0 to 300 mmHg, Should be provided with adult arm cuffs of size medium & large and pediatric cuff. The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute. The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments. The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm.The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking; The inflating bulb should be soft and should not have any joints or ridges. The mercury used should be clean, double distilled and of 99.9% purity. The fastening arrangements of the cuff should be of hook and loop type (Velcro).The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions. The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm.The tubes should be fitted with male and female leur connectors. | | | Manufacturer USA, Europe & Japan  FDA/CE/JIS  Certified | | **3** | |  | |  | |
| 327 | | Stretcher Trolley | | •Collapsible type •Aluminum Alloy material •Three sections stretcher top with adjustable head and foot section. Head section can be raised at any desired position. •Castors 6- Nos. and two will be used in the collapsible position. •Vinyl Leather bed and body straps. •Side protections •Weld free fabrication. •Right and front Side stretcher-locking mechanism in patient cabin. •Overall Dimensions . Length 78” . Width 22” . Maximum Height in full standing condition 48” . Minimum height in collapsible condition 12” | | | Imported or Local Export Quality | | **2** | |  | |  | |
| 328 | | Wheel Chair | | Sturdily constructed folding frame work, durable Rexene seat & back with stretch resistant liner. Main wheel with push facility of dia. 50 cm with hard tyres. Upholstered arm rest & 200mm dia. Front castors, fixed aluminum foot steps | | | Imported or Local Export Quality | |  | |  | |  | |
|  | | **FOR TANDO ADAM MEDICAL CENTER 25 BEDED** | |  |  | | **Q’ty** | | **U/Price** | | **Tot.**  **Price** | |
| 329 | | Male, Female and Pediatric Bed | | **Any - Imported or Best Quality Local Made** | Imported or Local Export Quality | | **3** | |  | |  | |
| 330 | | Service Level Agreement  (SLA) | | The supplier should engaged for Service Level Agreement for one year of their quoted equipments |  | | **Job** | |  | |  | |

**BID FORM**

To,

Vice Commissioner,

Sindh Employees’ Social Security Institution (SESSI),

Government of Sindh, Aiwan-e-MehnatKash, ST-17,

Block-6, Gulshan-e-Iqbal,

Karachi 75300

Sir,

**SUBJECT: TENDER FOR"HOSPITAL AND MEDICAL EQUIPMENTS FOR SESSI",**

**GOVERNMENT OF SINDH**

Having examined the bidding documents, the receipt of which is hereby duly acknowledge, for the above Contract, we, the undersigned, offer to supply, deliver, test and impart training in conformity with the said bidding documents for the Total Bid Price Pak Rupees (in figures in words)

or such other sums as may be ascertained in accordance with the Price Schedule attached hereto and made part of this bid.

We undertake, if our bid is accepted, to complete the works in accordance with the Contract Execution Schedule.

If our Bid is accepted, we will provide the performance security in the sum equivalent to 2% of the Contract Price for the due performance of the Contract.

We agree to abide by this Bid for the period of ninety (90) days from the date fixed for bid opening of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your Notification of Contract Award, shall constitute a binding Contract between us.

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

Dated this\_\_\_\_\_\_\_\_\_\_day of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2016

WITNESS BIDDER

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# 

# Technical Evaluation Forms

**FORM A1**

**COMPANY PROFILE**

**NUMBER OF YEARS IN BUSINESS**

Date: ----------------------

*All bidders are requested to complete the information in this form. Nationality information is also to be provided for foreign owners or applicants who are forming part of the Joint Ventures as required under the bye-laws as a Partnership/Joint Venture.*

|  |  |  |
| --- | --- | --- |
| 1. | Name of firm or consortium of firm (Legal Name):  *(In case of Joint Venture (JV), please also provide legal name of each partner)* | |
| 2. | Nature of Business:  *(Whether the firm is a Corporation, Partnership, Trust etc., show documentary evidence of required nature in business for every year)* | |
| 3. | Head Office Address: | |
| 4. | Telephone  Fax numbers:  E-mail address: | |
| 5. | Place of Incorporation/Registration:  Year of incorporation/registration: | |
| 6. | Applicant’s authorized representative:  Telephone  Fax numbers:  E-mail address: | |
| 7. | NATIONALITY OF OWNERS. | |
| Name: | Country: |

Note:

Please attach relevant document such as certificate of incorporation / registration**FORM A2**

**COMPANY’S PROFILE**

Regular employees on company payroll for last one year.

**(Please attach authenticated pay roll certificates)**

(Attach Separate sheet for each full time technical staff)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Position** | | | | |
| **Personnel information** | **Name** | | **Date Of Birth** | |
|  | **Professional qualifications** | | | |
|  | **Technical/Professional Certifications** | | | |
| **Experience** | **Name Of Employer** | | | |
|  | **Position** | **From** | | **To** |
|  |  |  | |  |
| **Present Employment Record** | **Job Title:** | | | |
|  | **Period with firm:** | | | |
|  | **Telephone:** | | **Email:** | |
|  | **NTN:** | |  | |
|  | **Mail Address:** | |  | |

Note:

Please attach relevant document such as degree(s), certificate(s) and any other deemed necessary as proof of claims in CVs.

**FORM B1**

**SPECIFIC EXPERIENCE**

Completed projects as per above evaluation criteria of “PURCHASE OF HOSPITAL AND MEDICAL EQUIPMENTS" FOR **“Sindh Employee’s Social Security Institution (SESSI).**

**(Attach successful completion certificate)**

*Use a separate sheet for each contract / Consultancy*.

|  |  |
| --- | --- |
| 1. | Name of Contract: |
|  | Country: |
| 2. | Name of Procuring Agency, Telephone and Fax Number: |
| 3. | Procuring Agency Address: |
| 4. | Nature of works and special features relevant to the contract:  :....................................................................................................................  .................................................................................................................... |
| 5. | Contract Role (Tick One):  (a) Sole (b) Sub-partner (c) Partner in a Joint Venture |
| 6. | Value of the total contract (in specified currencies) at completion, or at date of award for current contract:  Currency…………. Currency…………… Currency……………………. |
| 7. | Equivalent in Pak/ Rs.: |
| 8. | Date of Award: |
| 9. | Date of Completion: |
| 10. | Specified Requirements: |

Note:

Please attach relevant document such as completion certificate and any other document deemed necessary as proof of claims

**FORM B2**

**GENERAL EXPERIENCE**

Completed projects as per above evaluation criteria of " PURCHASE OF HOSPITAL AND MEDICAL EQUIPMENTS" For **Sindh Employee’s Social Security Institution.**

(Please attach successful completion certificate)

*Use a separate sheet for each contract / Consultancy*.

|  |  |
| --- | --- |
| 1. | Name of Contract: |
|  | Country: |
| 2. | Name of Procuring Agency, Telephone and Fax Number: |
| 3. | Procuring Agency Address: |
| 4. | Nature of works and special features relevant to the contract:  :....................................................................................................................  .................................................................................................................... |
| 5. | Contract Role (Tick One):  (a) Sole (b) Sub-partner (c) Partner in a Joint Venture |
| 6. | Value of the total contract (in specified currencies) at completion, or at date of award for current contract:  Currency…………. Currency…………… Currency……………………. |
| 7. | Equivalent in Pak/ Rs.: |
| 8. | Date of Award: |
| 9. | Date of Completion: |
| 10. | Specified Requirements: |

Note:

Please attach relevant document such as completion certificate and any other document deemed necessary as proof of claims

**FORM C1**

**QUALITY**

ISO 9001:2008 & ISO 13485-2003 or equivalent credentials

(Please attach credentials)

*Use a separate sheet for each credentials*.

|  |  |
| --- | --- |
| 1. | Name of Certificate: |
| 2. | Grant Date: |
| 3. | Expiration Date: |
| 4. | Accreditation body: |
| 5. | Last date of audit/inspection: |
| 6. | Next due date of audit/inspection: |

Note:

Please attach relevant document such as certificates and any other document deemed necessary as proof of claims

**FORM C2**

**QUALITY**

Technical/Management credentials

(Please attach credentials)

*Use a separate sheet for each credentials*.

|  |  |
| --- | --- |
| 1. | Name of Credential: |
| 2. | Credential Number: |
| 3. | Grant Date: |
| 4. | Expiration Date: |
| 5. | Accreditation body: |
| 6. | Last date of renewal: |

Note:

Please attach relevant document such as certificates and any other document deemed necessary as proof of claims

**FORM D1**

**FINANCIAL CAPABILITIES**

**ANNUAL TURNOVER**

**(Attach relevant authenticated audited statement)**

Date: ----------------------

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **YEAR** | **AVERAGE TURN OVER** | **INCOME TAX PAID** |  | **LIQUID ASSETS BALANCE** |
| **2014-15** |  |  |  |  |
| **2013-14** |  |  |  |  |
| **2012-13** |  |  |  |  |

Note:

Please attach relevant document such as authenticated audited statements and any other document deemed necessary as proof of claims