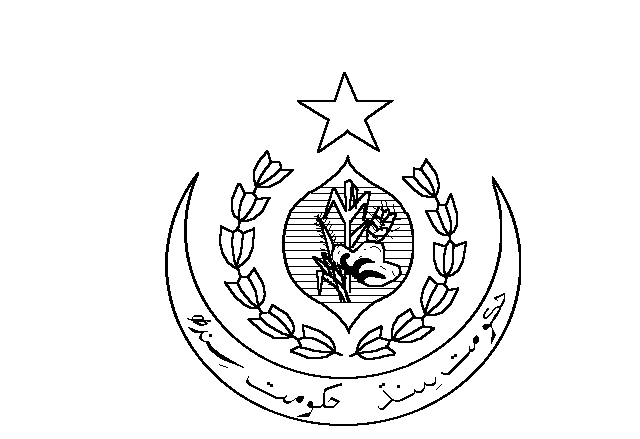
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**ESTABLISHMENT OF 300 BEDDED MOTHER**

**AND CHILD HEALTH CARE INSTITUTE**

**DISTRICT SHAHEED BENAZIRABAD - NAWABSHAH**

**Tender for Purchase of Machinery,**

**Equipment and Miscellaneous**

**for the year 2017-18**

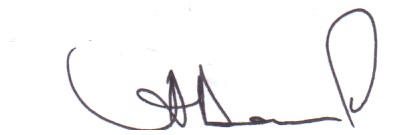
tender no. PD/300 BEDDED/521/2017

**Office of the Project Director Construction &Establishment of 300 Bedded Mother & Child Health Institute District Shaheed Benzairabad, Nawabshah @ Shahbaz Building Hyderabad.**

### TENDER NO. PD/300 BEDDED/521/2017 Due on 15-11-2017

**INVITATION FOR BIDS**

1. Sealed bids are invited from eligible bidders for Supply of Machinery, Equipment and Miscellaneous items against funds provided in the year 2017-2018.
2. Bidding will be conducted under **SPP Rule 2010 clause 46(2)** single stage two envelope bidding procedures of Sindh Public Procurement Rule 2010 (Amended 2017) specified in this document is open to all interested bidders.
3. Interested bidders may obtain further information from the office of the undersigned and Section Officer (PM&I), 3rd Floor, Tuglaq House, Sindh Secretariat Building No. 2, Kamal Atta Turk Road, Karachi, during the office hours.
4. A complete set of bidding documents may be purchased by interested bidders on the submission of a written application from Office of the Section Officer (PM&I), 3rd Floor, Tuglaq House, Sindh Secretariat Building No. 2, Kamal Atta Turk Road, Karachi,against the tender fee amount of Rs.3000/- in shape of Pay Order / Demand Draft in the name of Project Director, Establishment of 300 Bedded Maternal and Child Health Institute, Shaheed Benazirabad, Nawabshah.
5. Bids must be delivered / submit at the Office of Additional Secretary (PM&I), Health Department, 3rd Floor, Tuglaq House, Sindh Secretariat Building No. 2, Kamal Atta Turk Road, Karachi, on 15-11-2017 upto at 3:30 p.m.
6. All bids must be accompanied by a bid security / earnest Money @ 3% of the Total bid cost in shape of pay order / Call Deposit in the name of Project Director, Establishment of 300 Bedded Maternal and Child Health Institute, Shaheed Benazirabad.Late bids will be rejected. Bids will be opened in the presence of the bidder’s or their authorized representatives who choose to attend at *4:00pm.*



Project Director

Establishment of 300 Bedded

Maternal & Child Health Institute

Shaheed Benazirabad

**INSTRUCTIONS TO BIDDERS**

Tenders are required to comply all the clauses mentioned in the terms and conditions of the tender and any deviation/breach will forbid them from competing in the tender.

1. Prices should be quoted in Pak Rupees on D.D.P and CIF basis.
2. Bids shall remain valid for 90 days from the date of opening. A bid valid for a shorter period shall be rejected as being non-responsive.
3. The Bidder shall prepare bid comprise one single envelope containing separately financial proposal and technical proposal in original. The Envelop shall be marked as **“Financial Proposal”** and **“Technical Proposal”** in bold and legible letter to avoid confusion.
4. Price should be quoted in Figures & words both, failing which the offer will be ignored.
5. The **TECHNICAL BID** submitted by the Bidder shall comprise the following documents:
   1. The original tender purchase receipt.
   2. Bid security (Photocopy of the earnest money without amount).
   3. Bidders shall purchase separate tender document and furnish purchase receipts for alternate offer, in case they want to submit alternate offer. Any item’s bid with alternate offers without separate purchase receipt (Original) is supposed to be rejected.
   4. A detail data sheet having description of the essential technical and performance characteristics of the offered equipment.
   5. The original catalogue must accompany with offer and the equipment should comply/certified at CE/FDA approved.
   6. Only sole agent/distributor should submit their bid. NO SUBLETS ARE ALLOWED.
   7. Sole agency certificate of the quoted item from the Manufacturer must be attached by the bidder. The sole agency certificate should be valid for at least three years from the date of issuance. Authorization certificate from Manufacturer only for this tender will not be accepted.
   8. Bidder should have at least two – three years business history with the Manufacturer.
   9. Bidder should submit documentary proof of their past import of quoted model from the same Manufacturer.
   10. A certificate from the manufacturer that they are the original Manufacturer of the quoted machines must be attached with the bidding documents. It should be confirmed by Manufacturer that the offered machine / equipment is designed and manufactured in their own factory. Address of the factory should be mentioned in the certificate.
   11. The bidder shall furnish minimum three years’ experience in similar field with documentary proof i.e. copy of previous purchase order, installation certificate, service/maintenance certificate .
   12. The bidding firm must have been registered with Income tax, Sale Tax, Professional Tax and Sindh Service Revenue Board.
   13. The bidding firm must be registered with PNRA department for minimum past three years (for x-ray items).
   14. The bidder shall furnish copy of valid PNRA registration certificate (for X-ray items).
   15. Copy of valid Professional Tax (Excise & Taxation) Certificate, Income Tax Certificate, GST Registration Certificate should be attached with the technical bid.
   16. The bidder shall furnish three years Income Tax Return Certificate.
   17. The bidder shall furnish copy of **ATL certificate**.
   18. The bidder shall furnish a valid registration certificate with Karachi Chamber of Commerce & Industries.
   19. The Bidder must enclose list of Hospitals/Institutes where they have supplied the quoted equipment in Sindh and all over Pakistan.
   20. Bidder must submit details regarding the after sale service, availability of workshop in Sindh, trained and qualified engineers on their pay role stationed in Sindh, engineer’s training from Manufactures etc.
   21. The service manual with circuit diagram must be provided (for equipment) along with equipment.
   22. The bidder must confirm free Installation / Demonstration at consignee’s end as specified, three years free Service from the date of installation and availability of spare parts for 10 years.
   23. The supplier will be bound to supply the price list of spare parts and consumable at the time of tender which should be valid for three years after warranty.
   24. The supplier will be bound to provide free service during warranty period and to supply spare parts accessories of the supplied equipment on demand.
   25. Tenderers shall submit an undertaking on judicial stamp paper of Rs. 100/- confirming that if a purchase order is placed then the equipment to be supplied (equipment/machinery) will be original , brand new product / latest model and none of the part is refurbished, replace or old.
6. The **FINANCIAL BID** submitted by the Bidder shall comprise the following documents:

a. The Bidder shall furnish a bid security @ 3% of the quoted value in the form of a pay order / Call Deposit.

b. The quoted prices must be mentioned in the price schedules (tender documents) and on letter head with the complete details asoffered in the technical bid.

c. Price should be quoted in figure as well as in words.

1. Prices should be quoted in D.D.P and CIF basis.All the (applicable) Government taxes (Income Tax / Stamp Duty) of the value of the contract amount will be deducted from the bills of the Contractors / Suppliers.
2. The purchaser will open only the envelopes marked “TECHNICAL PROPOSAL” in the presence of Bidders or their representatives who chose to be present at the time of bid opening date, time and place specified in the tender documents. The Bidder or their representative who are present shall sign the attendance sheet.
3. Initially the bids will be scrutinized on basis of required documents mentioned in instructions to bidder and general terms and conditions of the tender. Only those bids will be further evaluated on the basis of technical specification that are qualified in the initial scrutiny.
4. The envelope marked “Financial Proposal” shall be retained in the custody of purchaser without being opened till the completion of the Technical Evaluation.
5. The equipment offered must be of latest version / generation and in case an old model is offered, it will not be considered, even though it is as per the tender specifications.

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

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

20. Bids shall be submitted by sole agent only. No sublet or authorization from local firm will be accepted.

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

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

23. The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract under the relevant provisions of SPP Rules 2010 (Amended 2017), without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser’s action.

24. The Purchasers reserves the rights to increase or decrease the quantity as per SPP Rule-2010 (Amended 2017).

25. Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder through Advance acceptance. This will constitute the formation of the contract. Within seven (07) days after receipt of the Advance acceptance, the successful Bidder shall furnish the performance security @ 5% in shape of Pay order/Bank Draft/Bank Guarantee of the contracted amount and will sign the contract agreement.

26. Bid validity can be extended as per SPP Rule 2010 (Amended 2017).

27. The warranty period will commence from the date of commissioning of the unit as per report of the end user/technical person.

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

* + 1. 95% to 100% No penalty.
    2. 90% to 95% the warranty period will be extended by the number of days system in down.
    3. 85% to 90% warranty period will be extended 1.5 time the down time period.
    4. 80% to 85% warranty period will be extended two time for the down time period and supplier is supposed to give justification of delay.
    5. Uptime less than 80% hospital will complain to the Principal to take action against the supplier and warranty will be the three time for the down time period.
    6. However, PPM (Periodic Preventive Maintenance) will not consider in the down time and PPM of the system will be done as per manufacturer recommendation

29. The Purchaser or its representative shall inspect the Machinery / Equipment to confirm their conformity to the Contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.

30. The bidder shall confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt./Semi Government institution or Armed Forces in the Province or outside in the same fiscal year.

31. The Purchaser reserves the right to increase/decrease or delete the quantities of goods etc. at the time of award of contract and also reserves the right to increase/ decrease the quantity of goods and services originally specified in the contract without any change in unit price or other terms and conditions of goods at any time during the contract period.

32. Service charges @ current prevailing charges of the value of the Contract will realized/charged while making payment to the contractors for award of each contract.

General & Special Conditions of Tender

1. The Contract shall be governed by and interpreted in accordance with laws of the Islamic Republic of Pakistan.
2. Store is required immediately. The bidder may however give their short guaranteed delivery period by which the supply will be completed but not late than ……….. days from the date of purchase order. No Extension will be granted / accorded for the supply.
3. The manufacturer should provide an undertaking that if his authorized contractor fails to carry out any assignment in total or in part, manufacturer will be responsible to carry out the same.
4. Except as otherwise specifically provided in the Contract, the Contractor shall bear and pay all taxes, duties, levies and charges assessed on the Contractor.
5. The Contract Price shall be made to the Contractor as specified in the Contract Agreement, subject to the general principle / procedure of the Government of Sindh.
6. The Contract shall be executed in accordance with the Contract Documents and procedures.
7. The Purchaser or its representative / Committee shall inspect the Machinery / Equipment to confirm their conformity to the Contract specification. The inspection will be conducted at the premises of consignee after receipt of supply.
8. If the Contractor fails to attain Completion of the supply within the Time for Completion shall pay to the Purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount of 10%. Once the “Maximum” is reached, the Purchaser may consider termination of the Contract.
9. The Contractor warrants that the supplied item or any part thereof shall be free from defects in the design, engineering, materials etc. In case of defect in any part at the time of supply it shall be replaced with new one instead of repair.
10. The purchaser, without prejudice to any other remedy for breach of contract by written notice of default sent to the supplier, may terminate this contract in whole or in part:
    1. If the supplier fails to deliver any or all of the contracted items within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser.
    2. If the Supplier fails to perform any other obligation(s) under the Contract.
    3. If the supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**EVALUATION CRITERIA**

**Bids will be evaluated in following Steps:**

**EVALUATION STEP NO. 1**

**Initial scrutiny of documents:**

i. Copy of Earnest money in shape of pay order without amount.

ii. Original tender purchase receipt/receipts for alternate offers.

iii. Compliance of terms and conditions duly signed and stamped by the bid signing authority.

iv. Submission of required documents in instructions to bidder and general, special condition of tender.

**EVALUATION STEP NO. 2**

**Technical Evaluation**

Only those bids will be evaluated technically that are qualified in initial scrutiny of documents i.e. Step no. 1.

**EVALUATION STEP NO. 3**

**Financial Evaluation**

Financial offers of only those bidders will be opened that are qualified in technical evaluation.

i. Original pay order of Earnest money.

ii. Amount of bid security at the rate of 3% of total bid amount in the shape of pay order.

iii. Quoted price.

**UNDERTAKING**

|  |  |
| --- | --- |
| a) | That I/we agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. 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. |
| b) | I/We understand and confirm the refund of cost difference if the same goods is/was supplied at lower rates to any other Govt./Semi Govt. institution in the province in the same fiscal year. |
| b) | I/We undertake that, if any of the information submitted in accordance to this tender Enquiry found incorrect, our contract may be cancelled at any stage on our cost and risk. |

CERTIFICATE

We guarantee to supply the stores exactly in accordance with the requirement specified in the invitation to this tender.

Signature of Tenderer : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name & Designation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Technical Specifications**

**PURCHASE OF MACHINERY / EQUIPMENTS FOR Establishment of 300 Beds**

**Maternal & Child Health Institute SHAHEED BENZAIRABAD**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Machinery / Equipment description** | **Qty** | **Unit Price** | | **Total Price** | |
|  |  |  | **C&F** | **DDP** | **C&F** | **DDP** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | **Mobile X-ray Machine 100mA**  High frequency X-Ray inverter type Generator  Having output power of 4kW or more  X-Ray tube protections, KVP range: 40-110kV or more  MA Range: 10-100mA or better  mAS range: 1.0-200mAs or better  Centering light indicator  Standard power supply cable,  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 .  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 2 | **Defibrillator with monitor/recorder biphasic 200J**  Biphasic transthoracic (external) defibrillator with display of 5.5” screen or more.  Synchronized output with ECG  Manual and AED Mode.  Control of energy charges / delivering on main panel and apex paddle.  Charging indicators  The energy range should be adjustable for peads and adults up to 200J or more.  Charging time for full energy should be less than 7 sec.  Display of heart rate, ECG through paddles and lead I,II& III patient cables.  Built-in recorder for printing of full summery of standard 50mm paper.  Alarm for high and low heart rate, low battery warring.  Built in rechargeable battery with charges for more than 100 shocks  Auto test/self-check  External pediatric and adult paddles.  ECG cable  AC 220V/50Hz operated  **Optional: Pace Maker and SpO2**  **Pace Maker**:  Frequency 30 to 180 ppm or better  Current 0 to 150 mA  Rectangular constant type waveform.  Duration: 40 ms  Refractory period 340 ms from 30 to 80 ppm  240 ms from 85 to 180 ppm  Stimulation mode On Demand and Fixed with selectable frequency and current  **SpO2**  MASIMO SpO2  Range 1-100%  Perfusion index 0.02% to 20%  Accuracy during no motion conditions: 70% -100 % : ± 2 digits  Accuracy during motion conditions: 70% -100 % : ± 3 digits  Pulse Frequency Range 25 -240 ppm  Accuracy during no motion conditions : ± 2 ppm  Accuracy during motion conditions : ± 5 ppm  Or Equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 3 | **Portable Ultrasound with convex & linear probe**  Ultrasound machine general purpose  Fast image processor and two active connectors. Color Doppler.  Color Mode, DPI Mode , M Mode , PW Mode , THI Mode , Dicom3.0 , Built-in WorkStation , Four beams , Built-in μ-Scan , Compound Imaging , Trapezoidal Imaging , Obstetric Measurement Package , Gynecology Measurement Package  Frame rate: 60frames /sec or more  Dynamic range 150dB or more.  Display Monitor: 15” or more  High resolution, Non flicker TFT/LCD/LED.  Imaging modes: B-mode  B+M mode  M-Mode  2B-mode  Color mode  Tissue Harmonic image.  Measurement Packages: Obestratic Measurement Package  Gynecology Measurement Package  Urology Measurement Package  Small parts Measurement Package  Vascular Measurement Package  DICOM 3.0  PDF report function  160GB hard drive, DVD, 4 USB  Complete with the following:  Convex probe Multi frequency between 2~6 MHz or better  Linear probe Multi frequency between 5~11 MHz or better  B/W Printer with 5 nos. paper role.  Trolley (local)  Compatible UPS  Or equivalent  FDA 510(k) approvedCE Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 4 | **Patient Bed Side Monitor**  Standard parameter:  ECG 5 leads , NIBP , SPO2, TEMP, RESP.  12” or more TFT/LCD Touch screen Display  Trend recording up to 64 hours or more  HR Display Range: 30-300bpm or more  Hard wire/wires less connectivity facility for central monitoring station.  Network connectivity HL7 based to transfer data to the hospital information system.  Adult, Neonatal & pediatric modes of operation, detection and alarms for all parameters  Waveform display 8.  Wave form trace speed : 25 and 50mm/sec  ECG  Leads selection: I, II, III, aVR, aVF, aVL, V, V1-V6, TEST  Selectable neonatal & pediatric operation  Ability to detect neonatal & pediatric heart rate range, qrs widths and amplitudes.  Numeric heart rate  Real time wave form  Variable gain: 0.5,1,2&4  Heart beat indication  NIBP  Pressure ,oscillometric principal.  Systolic , diastolic and mean pressure  Rising cuff/continuous pressure display Temperature:  Numeric temperature selectable  Temperature with probe (external and rectal)  Ability to measure neonate and pediatric temperature range  Pulse Oximeter  Number oxygen saturation measurement  Range: 0-100%  Sensor for neonate/infant and pediatrics  Respiration impedance method using ECG leads for sensing  Breathing rate range, sweep speed  Selectable apnea alarm  Built-in battery with charger for at least 2 hours or more  The system must be complete with all sensors, probes and cables and accessories.  Complete with neonatal and peads accessories.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 10 |  |  |  |  |
| 5 | **Defibrillator (External with 360 Joules & with ECGDisplay) with crash cart**  Biphasic truncated exponential wave form current driven  device with pediatric mode and AED.  Energy selection via knob or soft touch keys,  programmable alarms both visible on screen and audible  voice or tone.  Unit should have defibrillator status window to give end  user information about defibrillator status.  Energy level of defibrillator should be 360J complying  with the standards of AHA and ACLS guidelines.  At least 7" diagonal TFT color screen for easy viewing.  Synchronized output with ECG  • Paddles should be equipped with change of energy switch  and charging switch  • Charging time for full energy should be less than 6 sec.  • Display of heart rate, ECG through paddles and lead 1,11  & III patient cables.  • Built-in recorder for printing  • Built in rechargeable battery capable of 4 hours of  backup or delivering more than 100 shocks  • Auto test/self-check  • ECG cable and gel  • Unit should be tested to withstand a drop of I Om/s from a  height of at least 5 feet or more.  • Unit should be provided with test load to verify unit and  cable functionality.  • AC 220V/50Hz operated  • Unit to be provided with extra paper, ECG Gel and  Pediatric AED pads  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 6 | **ICU Ventilator for Peads**  Peads Ventilator  Adult, Peads and Neonate  Touch screen LCD 12” or more display with turbine  Modes of Ventilation  ACMV, SIMV, Spontaneous Ventilation  Volume based :  V-CMV; V-SIMV  Spontaneous based:  CPAP + Pressure support, CPAP+ Volume support  Volume controlled pressure target ventilation.  Tidal volume : 5 - 2000 ml  Pcontrol3 - 70 cmH2O  Psupport 0 - 80 cmH2O  Peak flow (mandatory) up to 115lpm  I-Times 0.1 - 10.0 sec  Oxygen concentration 21 - 100%  Breath Types  Breath Triggering  Flow triggering 0.1 - 20lpm  Monitoring display  Delivered oxygen concentration 21-100%  Trend Data (70 hours or more)  Pressure:  Ppeak, Pmean, PEEP/CPAP, Pplateau,  Flow:Inspiratory flow & Expiratory flow  Minute volume  Spontaneous tidal volume  Time:Inspiratory& Expiratory time  Lung mech:Cstat, Auto PEEP, RSBI, PMax  PO.I/PiMax  Loops : flow & pressure volume loop, pressure & time loop , flow & time loop  Alarm: complete set of alarm for gas, pressure, volume, power cut off, patient disconnect etc.  Battery backup of 2 hours or more.  Built in trolley from same Manufacturer  Patient circuit support arm  10 x disposable Patient circuit  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 19 |  |  |  |  |
| 7 | **Canpnograph side steam with graphic Display**  Portable 5” touch screen TFT display  2 trace waveform  Unit must be capable for measurement of ETCO2 for neonatal, pediatric and adult patient.  Method of sampling : side stream or main stream  Sampling rate should be 100Hz or better  Unit complete with  Sample Line  Filter  T Adaptor  Nasal cannula  Adult Airway Adapter 10 nos.  Neonatal Airway Adapter 10 nos.  Trolley  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 8 | **ICU Monitors Multiparameter with ETCO2**  Standard parameter:  ECG 5 leads , NIBP , SPO2, TEMP, RESP & ETCO2  12” or more TFT/LCD Touch screen Display  Trend recording up to 64 hours or more  HR Display Range: 30-300bpm or more  Hard wire/wires less connectivity facility for central monitoring station.  Network connectivity HL7 based to transfer data to the hospital information system.  Adult, Neonatal & pediatric modes of operation, detection and alarms for all parameters  Waveform display 8.  Wave form trace speed : 25 and 50mm/sec  ECG  Leads selection: I, II, III, aVR, aVF, aVL, V, V1-V6, TEST  Selectable neonatal & pediatric operation  Ability to detect neonatal & pediatric heart rate range, qrs widths and amplitudes.  Numeric heart rate  Real time wave form  Variable gain: 0.5,1,2&4  Heart beat indication  NIBP  Pressure ,oscillometric principal.  Systolic , diastolic and mean pressure  Rising cuff/continuous pressure display Temperature:  Numeric temperature selectable  Temperature with probe (external and rectal)  Ability to measure neonate and pediatric temperature range  Pulse Oximeter  Number oxygen saturation measurement  Range: 0-100%  Sensor for neonate/infant and pediatrics  Respiration impedance method using ECG leads for sensing  Breathing rate range, sweep speed  Selectable apnea alarm  Built-in battery with charger for at least 2 hours or more  ETCO2  Mainstream ETCO2  Adult and Neonate  Measurement Range: 0 ~ 99mmHg  Sampling Rate: 50 ml/min  Respiration Rate: 0 ~ 150 breaths/min  The system must be complete with all sensors, probes and cables and accessories.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 10 |  |  |  |  |
| 9 | **Central Monitor**  Multi-Channel 19” or more colored Central Monitor with recording facility on Laser Printer  High and low alarms on all parameters selected on bedside monitors.  should have facility for 2nd displays  Hard wire system with capabilities of Tele Monitoring as a future upgrade.  Capability to store 48-hours trend data  Capability to store and review data of 72-hours  full disclosure ECG as well as 5 other waveforms for each patient.  64 wave form, multi wave freez etc.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 10 | **Transport Ventilator**  Electronic control transport ventilator for peads and neonatal.  Ventilator to be used for transportation within the hospital or ambulance.  Mode: Control Mode, CPAP mode, Battery back up for 6 hours or more.  Display of tidal volume  Pressure  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 11 | **ABG Machine**  Blood Gas Analyzer  Type             :     Parameter  pH                :     pH  Blood Gas     :     pCO², pO²  Electrolytes    :    cCa²+, cClˉ, cK+, cNa+  Glucose         :    cGlu  Hemotocrit     :    Hct  Oximetery    :   ctHb, sO², FO2HB, FCOHb, FMetHb, FHHb  Solution Pack  In-use life depend on number of patients and QC samples and frequency of calibration up to 30 days maximum Shelf life   20 days (without CO-OX), 90 days (with CO-OX)  Pouch volume   -440 ml  Fluidic cycles     230  Storage temperature     12-12 °C/54-77 °F  Calibration data                     Default interval  Automatic: 1-point cal   With measurement  Automatic: 2-point cal   8 hours  as part of system cycle  Derived parameter  cHCO3 (P), cBase(B), cBase(B,ox), cBase(Ecf),cBase(Ecf, ox)cHCO3 (P,st), ctCO2(P), ctCO2(B), cCa2+(7.40), Anion Gap(K+) Anion Gap, ctO2, sO2, CtHb, pO2(A), pO2(a/A), pO2(A-a), Rl, mOsm, p5O, p5O(st), pO2(a)/FO2(l), DO2, Hct,pO2(x),BO2, FShunt, VO2, Qx,Q1, V(B), (T)  Hardware  Full visual graphic array (VGA)  Full active thin Film transistor  (TFT)  800X600 resolution  Resistive touch screen  Software  Autoprint (on/off)  Select derived parameters  Five lines for custom header  Temperature corrected results  QC ranges with results  Select input variables  Measured / default ctHb  Reference ranges with results  Analyzer name (user-defined)  Supply with start-up kit.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 12 | **Air Purification Unit**  Air flow :max. 600 m3/h  Standard fan speed  Step 1: 900 rpm  Step 2: 1,300 rpm  Step 3: 1,700 rpm  Step 4: 2,800 rpm approx.. Or Adjustable  Noise emissions  Fan stage 1, silence night level  Fan stage 2, daily basic level  Fan stage 3, daily high level  Fan stage 4, intensive level  Filter type :  Particulate filter  Designation : HEPA / ULPA  Filter monitoring with LED display  Material : Chromium steel 1,0 mm  Complete with :Stainless steel, polished Air purification unit  HEPA14 filter cartridge (consists of pre-filter F9 + activated carbon + HEPA14)  2 x brackets in steel for installation against the wall.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 13 | **Phototherapy Unit**  LED bulb as phototherapy radianting elements  Irradiance intensity is adjustable in 3 grade : Low,  medium, high  LCD screen display therapy time and integral time  seperately  Count up timer and count down timer for exact and  convenient treatment  Equal light distribution, High intensity  Quiet, no noise of fan  The angle of head and height are adjustable  Four castors with brake, aluminium alloy and steel  support base  Long life span LED bulb  Using together with infant incubator, infant warmer, babyCradle  Power supply: ACII0V--240V 50/60Hz  Power input: 45VA  Radiant wavelength: 440-480nm  Height adjustable range: 850-1640nm  Pitching angle of phototherapy head: 0-180  Radiant head size: 380 x 220mm  Life span of LED bulb: >20000hours  Blue LED bulb: 17pcs  Time accuracy: 1min/12h  Integral time range: 0-29999.9h  Count down timer: 0-48h  Total Irradiance for bilirubin  (effective surface area 500 x 360mm, at 360mm)  High 2800μW/cm2  Middle 2000μW/cm2  Low 800μW/cm2  OR equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 10 |  |  |  |  |
| 14 | **Electrolytes Machine**  Sample  Whole Blood, Serum, Plasma, or Urine  Sample Size  100ul Whole Blood, Serum or Plasma  60ul Capillary Sample  400ul diluted (1:10) Urine  Detection Range  Blood Na+:20-200mmol/L, K+:0.2-40mmol/L, Cl-:25-200mmol/L  Urine Na+:25-1000mmol/L (undiluted), K+:1.0-500mmol/L (undiluted) , Cl-:25-500mmol/L (undiluted)  Analysis Time: 55 sec (Blood), 90 sec (Urine)  Data Storage : 125 patient results, 20 normal QC results, 40 abnormal QC results  Calibration : Automatic or On Demand  Reproducibility  Typical within run (n=20)  Blood, Serum, Plasma  Na+:CV≤1%(80-200 mmol/L)  K+:CV≤2%(1-10 mmol/L)  Cl-:CV≤2%(80-200 mmol/L)  Urine  Na+:CV≤5%(25-1000 mmol/L)  K+:CV≤5%(1-500 mmol/L)  Cl-:CV≤5%(25-1000 mmol/L)  Output  16x2 place alphanumeric display  40 column printer  Serial Port (RS-232)  Auto Sampler port  Ambient Conditions  15-32degreeC(60-90degreeF), less than 85% humidity  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 1 |  |  |  |  |
| 15 | **Pulse Oxymeter**  Portable, mounted on trolley (local)  Touch screen TFT 5" or more display  PLETH waveform  Trend recording up to 56 hours or more.  Sp02% Range: 0 — 100%  Pulse Rate Range: 30-250 bpm  Alarms for pulse beep and alarm power.  Red light LED wavelength Sp02 Probe  Battery backup for three hours or more.  Accessories  a) Finger Probe for Peads with Extension Cable.  b) Spot Probe for Infant/Neonatal.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 10 |  |  |  |  |
| 16 | **Saturation Monitor**  Portable, mounted on trolley (local)  Touch screen TFT 5" or more display  PLETH waveform  Trend recording up to 56 hours or more.  Sp02% Range: 0 — 100%  Pulse Rate Range: 30-250 bpm  Alarms for pulse beep and alarm power.  Red light LED wavelength Sp02 Probe  Battery backup for three hours or more.  Accessories  a) Finger Probe for Peads with Extension Cable.  b) Spot Probe for Infant/Neonatal.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 17 | **Radiant Warmer**  Microprocessor based servo controlled temperature  system  • Three modes: pre-warm, manual and automatic  • Set temperature and skin temperature display separately  • Anti-explosion micro crystal quartz for radiation source  • Self-testing function, various failure alarms by audible  and visual  • APGAR timer to record therapy time  • Convenient X-ray cassette tray under infant mattress  • Heater head can be adjusted ± 90° horizontally  • Inclination of infant bed is adjustable  • LED observe light angle is adjustable  • Transparent protector can be folded down, with two  infusion seals  • Built-in low pressure aspirator  • LED phototherapy unit  PVC infant resuscitator  • RS232 connector  • OR equivalent | 2 |  |  |  |  |
| 18 | **Neonatal Resuscitation Trolley**  Control panel with large LED display.  • Skin probe  • Modes: pre-warm , Manual and servo  • Controlled mattress heating with delayed alarms during  PreWarm Mode  • Remote Alarm silence  • Bed movements: Trendelenburg & Reverse  Trendelenburg  • Drop-Down Side panels  • Ceramic Heating element for rapid warming  • Digital Apgar Timer of 1,5,10,20 minutes  • Intelligent alarms for patient safety  • Examination lamp  X-rays cassette tray  • Air Probe  • Castor with brackets & brakes  • Push Handle for y movement control  • Integrated Infant Resuscitator  • Medical Suction Unit (Pediatric)  • Air&02 Flowmeter System  • Bracket For Cylinders  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 5 |  |  |  |  |
| 19 | **Mobile Rechargeable Light (SingleBulb)**  Spot light for medical examination at OPD and bed side. With halogen bulb 50W 12V situated inside the plastic reflector and should be protected by a tempered glass.  Lamp head should be fully sealed against dirt and fluid spray.  Articulated Arm .  Light beam of 180 mm diameter at a distance of 50 cm  Base with 5 rotary spokes, 900 mm height. Light intensity 25,000 lux at 50 cm.  Or equivalent FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 20 | **Infusion Pumps**  Volumetric peristaltic infusion pump. Flow rate 0.1 to 99.9 ml/h. Unit compatible with most IV set. Memory function incase of power failure to retain the most recent flow rate & total volume. Comprehensive alarm for Air in line, occlusion, door open, low battery, infusion complete, empty container. Built in battery charger. Unit complete with IV sets.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 13 |  |  |  |  |
| 21 | **Syringe pump**  Syringe pump for use in ICU, CCU, NICU or Operation room for the infusion of chemical such as vasopressor drugs, anti cancer drugs, oxytocic, nutrituin, drug for chemotherapy medication and blood transfusion. Use of 100ml syringe.  Anti bolus and anti siphon function.  3 sensors .  Lockable keypad.  Flow rate rang : 0.1-99.9ml/h, 100-155ml/h, Volume infused: 0.1-99999ml, Volume to be infused: 0.1-99999ml  Compatible syringe: 10,20,30,50/60, 100ml or more  Audio-Visual Alarms  Low battery, Very low battery, Occulusion, X min pre-alam, (KVO) XX ml/h, End of infusion  Syringe empty, Illegal syringe ,Plunger not fitted, Clamp opened, Internal error  Nurse call system  Built – in battery with 8 hours back up  Or Equivalent  USA/UK/EEC/Japan | 9 |  |  |  |  |
| 22 | **Suction Machine (Electric)**  Piston type, oil free , maintenance free  • Suction machine manufactured with ABS high strength  plastic.  • With 4 extra strong wheels (l of them antistatic and 2 of  them with brakes)  • Should have suction capacity of 401/min  • Vacuum pressure 650 -700 mmhg  • ON/OFF switch  • Knob for Suction Control  • With 2 Polycarbonate collection jar (4 liters-Scales up to  3500 ml) with safety valve to prevent overfilling  a) Suction Tube 4 meter ( I piece)  b) Collection Jar 4 liters ( I piece)  c) Anti-Bacterial filter (2 piece)  d) Power cord (1 piece)  e) User Manual (1 piece)  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 12 |  |  |  |  |
| 23 | **E.C.G. Machine (three channel)**  3 channel ECG Machine with alphanumeric key board, LCD graphic display and pace maker detection facility.  Indicators for loose leads  Auto and manual modes.  Printer Paper speed (mm/s) : 5, 10, 25, 50.  Sensitivity (mm/mV): 2.5, 5, 10, 20,  Complete with: Set of electrodes, patient cable, power cord, gel, paper roll 58mm / 25m and dust cover.  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 6 |  |  |  |  |
| 24 | **Baby Incubator**  Intensive care incubator with air and skin temperature control.  Control module with micro processed servo controlled system .  Skin and air temperature probes.  Double wall design of hood.  Column stand and four wheels with brake.  Cabinet with doors.  6” or more LCD display and control.  Unit should complete with six ports including two iris ports.  Sliding mattress  Trendenburg +/-10° or more.  Skin temperature monitoring facility for twin babies.  Skin temperature : 34-38°  Air temperature: 20-39°  Temperature resolution: 0.1° or better  Built-in Alarm for air and skin temperature limits.  Heat failure, skin probe disconnect, air circuilation, power failure and air temperature probe failure.  Optional : Weighing scale, Oxygen servo control system.  Quality certification: CE /FDA, ISO and JIS Marked.  Country of origin: USA/UK/Europe/Japan | 10 |  |  |  |  |
| 25 | **BP Apparatus with Stand (Mercury)**  Cuff Size For Newborn, Infant and Children  • Accurate reading.  • Emulsoid Bladder & Soft emulsoid Bulb  • Mercury lock facility  • The Height of pole is adjustable (with range of 105mc to  I 46cm)  • Five wheels with brakes  • Measure Scope: 0-300mHg  • Accuracy: 3mmHg  • Glass Tube: 3.5 to 4.0min  • OR equivalent | 18 |  |  |  |  |
| 26 | **Stethoscope**  Imported  OR equivalent | 14 |  |  |  |  |
| 27 | **Stethoscope Neonatal**  Imported  OR equivalent | 10 |  |  |  |  |
| 28 | **Blood Pressure Apparatus (Neonatal)**  Imported  OR Equivalent | 10 |  |  |  |  |
| 29 | **X-Ray Viewing Box (for Viewing 2 X-Rays,**  **Standard Size)**  Size:  • Box constructed from I mm thick Galvanized sheet  • Fitted with electrical booster, chowk and circular  fluorescent tube  • Uniform illumination throughout with sharp borders  • Power 220V, 50Hz 128W  • Electrostatic epoxy powder coated steel finish  • OR equivalent | 24 |  |  |  |  |
| 30 | **Baby Weight & Height scale**  Digital Weight Scale for Infants and Neonates.  Alkaline Battery  Date Time digital option  Storage of previous weight on LCD screen.  Weight capacity: up to 20-Kgs (10-grams). | 16 |  |  |  |  |
| 31 | **Baby Weighing Scale (Neonatal)**  Imported | 4 |  |  |  |  |
| 32 | **Electronic Nebulizer (Hospital Use)**  Compressor: Piston.Fuse: TI,6 A/ 250V.  • Operating Pressure: 0.90 bar.  • Air flow: 141/min.  • Noise Level: 50db.  • Temporary Use: 30/30 min.  • ON/OFF.  Face Mask (5 piece)  b) Faster Jet Bulb (I piece)  c) Mouthpiece ( I piece)  d) Nasal Prong (1 piece)  e) Connection Tubing (I piece)  Or Equivalent | 10 |  |  |  |  |
| 33 | **Laryngoscope (Peads)**  Imported | 12 |  |  |  |  |
| 34 | **Ophthalmoscope**  Imported | 10 |  |  |  |  |
| 35 | **Diagnostic Set (ENT)**  Modular diagnostic set capable to combined according to requirements and the room situation. With 3.5 V xenon or LED lighting, 2 handle oto and ophthalmo scope head, ear specula dispenser, clock etc  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 12 |  |  |  |  |
| 36 | **Minor Instrument**  Export quality | 1 |  |  |  |  |
| 37 | **Ambu Bag (Paeds) (Rubber Reusable)**  Silicone rubber bag.  1 liter – 4  2 liter – 4  3 liter – 4  • Autoclaved repeatedly at 134°C.  • built-in pressure  • limiting system that ensures a maximum inflation  • pressure of 70cm H20.  • Max. tidal volume 25pprox.: 1300m1  • Size (Length x Diameter): 275 x 135mm  • Volume 02 reservoir 25pprox.: 1500m1  • Expiratory connector: 30min  • OR equivalent  Imported | 12 |  |  |  |  |
| 38 | **Glucometer**  Imported | 12 |  |  |  |  |
| 39 | **Oxygen Head Box (Neonatal Size)**  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 10 |  |  |  |  |
| 40 | **Icterometer (Jaundice Meter)**  Or equivalent  FDA/CE/JIS Marked  USA/UK/EEC/Japan | 2 |  |  |  |  |
| 41 | **Electric Water Cooler** | 3 |  |  |  |  |
| 42 | **Water Filter Three Jars** | 4 |  |  |  |  |
| 43 | **Refrigerator 18cft** | 6 |  |  |  |  |
| 44 | **Computer Core i5 with LED MonitorDesktop**  Core i5 3.2GHz (6th Generation)  4GB DDR3 RAM  500GB SATA Hard Drive  Optical super combo  b) 19" LED Display  c) Key Board & Mouse | 15 |  |  |  |  |
| 45 | **Laser Printer**  Print speed black: Normal: Up to 18 ppm  • First page out (ready) Black: Up to 9.2 sec  • Print quality black (best) Up to 600 x 600 x 2 dpi  • Resolution: HP FastRes 600, HP FastRes 1200  • Duty cycle (monthly, A4): Up to 5000 pages  • Processor speed: 266 MHz  • Print languages: Host-based printing | 15 |  |  |  |  |
| 46 | **Water Dispenser** | 2 |  |  |  |  |
| 47 | **LED TV 40”** | 2 |  |  |  |  |

Sign & Stamp \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bidder Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact Person \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Contact No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_