



महाराष्ट्र शासन

PH.NO.22620390,22611667,22611654,22611871

Email - suptd.camahospital@gmail.com

कामा व आब्लेस रुग्णालय, महानगर पालिका मुंबई - ४०० ००९

CAMA & ALBLESS HOSPITALS, MAHAPALIKA MARG, MUMBAI-400001

Quotation Notice

No.CAH/PUR//Quotation/Equipment/4839/2021

Date : 12/10/2021

Sub : Submission of Quotation for the Supply of Instrument / Equipments to the Paediatric Covid Ward, Cama & Albless Hospital, Mumbai.

Dear Sir,

The undersigned invited sealed quotations for the items mentioned blow/on/reverse or as per enclosed statement for the use of the Cama & Albless Hospital, Mumbai on the following Terms & Conditons.

- 1) The Price quoted should be free delivery to Hospital premises for local dealers and F.O.R. Mumbai for outsiders.
- 2) The Price quoted by the inclusive of all taxes, duties if payable like customs, excise, CST, S.T., GST & Inclusive transportation, instllaton, commissioning. The break-up of the taxes should also be shown separately where necessary. The sales tax & registraton number should be quoted in your letter. Exemption of taxes, if on A.F. Forms etc. be separately stated.
- 3) The serial number of the items should not be changed while quoting rates. You may drop the item if not interested.
- 4) Rates should be quoted strictly for the item specified in the list and for standard quality of goods. In case of alternate offer, the detailed specifications, name of manufacturer or make etc. must invariably be stated. Specifications other than specified in the schedule may be laible for rejection on even though lowes.
- 5) The quotaton submitted will be valid for a period of six (6) montsh only from the date of acceptance.
- 6) The delivery of goods sholuld be invariably be made within 6 week for indigenous items and 12 week for imported items from the date of confirmed order.
PENALTY ON LATE DELIVERY : In the event of lage delivery of goods, the purchase will recocover from contractor by way of penalty, a sum of equal to half percent of price of goods. (The case of an order not exceeding Rs.2.00 lak in value subject to max.10% and in case of an order of Rs.2.00 Lakh and above subject ot max.5%) delivered late per week calculated from the next day after teh agreed delivery period is over.
- 7) The equipment received after due date will not be accepted. The quotation should be submitted in sealed cover. Unsealed quotation which is not properly sealed will not be accepted. The last or receiving date of the quotation is 20/10/2021 upto 5.00 p.m.

- 8) Supply of stores should be made in one installment unless otherwise ordered place meal supply will not be accepted. Condition of advance payment through Bank, part payment etc. will not be accepted.
- 9) The price quoted is inclusive of all taxes, duties if payable like Customs/Excise/CST/ST/ GST the break up of the taxes should also be shown separately where necessary. The sales Tax, GST and registratin number should be quoted in your letter. Exemption of taxes on 'AF/ oetroi exemption form etc be separately stated.
- 10) Quotation if asked with samples if not accompanies with sample will be liable fro rejection even the y are lowest. Samples should be sent with a labels attached quoting our ref. no. of enquiry and item no etc.
- 11) The successful tendered will have to pay security deposit of an amount equivalent to 3% of the cost of the equipment in the name of Superientendent, Cama & Albless Hospital, Mumbai for period of two years.
- 12) The bidder will have to agree to enter into an Annual Maintenance Contract (AMC)@ 1% per year of the Order value of the machinery / equipment (including taxes). Where required, bidder will have to agree for Comprehensive Maintenance Contract (CMC) inclusive of all spares @ 5% of the Order value (including taxes) of the equipment per year. The period of such AMC / CMC will be of 8 years after completion of warranty period. In case of non-compliance of AMC/CMC the supplier will be liable to pay a penalty. Such penalty shall be recovered from the amount of bank guarantee submitted. Payment for AMC /CMC on yearly basis will be made by the user's institution, at the end of year after satisfactory performance report from the end user.
- 13) Comprehensive Warranty (Including supply of spares) All inclusive warranty period shall be of 2 years from the date of commissioning of ll equipment supplied as certified by the consignee. The successful bidder must ensure 100% uptime during qarranty period. In case of down time. Warranty period will be extended for period of down time. The bidder will have to give bank quarantee (of Nationalized Scheduled bank) of 5% of ordered value valid for 10 yeras towards performance guarantee for warranty. If the equipment is not attended within 48 hours teh supplier will be liable to pay a penalty fo 0.05% of purchase cost for every day of delay. Such penalty shall be recovered from the amount of bank guarantee. Certificate of such uptime/downtime shall be issued by the endures. Which shall be binding for the supplier.
- 14) Initiat payment of 90% of the contract value will be made on delivery and installation & 10% of the contract value will be paid on satisfactory commissioning of the machinery within 30 days.
- 15) The bidder shoudl install the equipment in the concerned department of the the institution, give demonstration free of cost and train the staff of the department (no. as specified by user)
- 16) The Decison of the Superientendent, Cama & Albless Hospital, Mumbai reserves right to reject any or all Quotation without assigning any reason.
- 17) Very Important : In case you are not inerested in quoting your raters; in reply to this enquiry a line in reply in must; failing re liable for dlisting theri name for further enquiries from our list and no further request in this matter will be entertained.

18) Literature, Instruction manual, working leaflet etc may also be set with quotation.

19) Authorization Certificate , Brochure, Catalogue, User List may also submit along with quotation. The Photostat copies of the firm registration should be attached with the quotation.

Authorization letter : A dealer quoting on behalf of manufacturer must attach authorization letter from the manufacturer to sell the equipment and to do after sales services. Sub dealer certificate will not be accepted.

20) Technical Specification - Compliance Chart with Variation/deviation.

IMP:- General Terms & Condition :


- a) Submit separate sealed quotation for each equipment (equipment wise) under two envelope (Two bid) System for supply of equipments.
- b) Envelope No.1 (Technical bid) consists of authorization letter & compliance chart are mandatory. Firm registration certificate, GST Registration, Product catalogue, ISO or ISI Certificate.
- c) Envelope No.2 (Price Bid) consists of price of equipment/machinery
- d) Price of equipment must be quoted inclusive of all taxes.
Both the sealed envelope no.1 & envelope no.2 should be put together in one cover & should be sealed and submitted for each item.
- e) A hands on working demonstration is essential before opening envelope No.2 (if demanded)
- f) Unsatisfactory performance of demonstration will disqualify the Quotation.

Details as below :

Purchase of equipment for year 2021-22 under State Plan

Sr.No.	Name of the Item	Qty.
01	Crash Cart Trolley	2
02	Diffibrillator	2
03	Portable X-Ray Machine	2
04	Portable ECG Machine with 12 Lead	3
05	Non Invasive BP Monitor	10
06	Glucometer	5
07	Stethoscope	20
08	Pulse Oximeter	20
09	Laryngoscope	4
10	Non Invasive Ventilator with NIV Mask	2
11	Oxygen Portable Cylinder	2
12	Instrument Tray	10
13	High Stool for Procedure	2
14	I.V. Stand	25
15	Neonatal Trolley with Overhead Arm	20

16	Phototherapy Unit	2
17	Bilirubinometer	1
18	Oxygen Hood	15
19	Breast Milk Pump	2
20	Thermometer	10
21	Nebulization Machine	2


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1. Crash cart

Over all dimensions : 970 x 480 x 1660 mm
Stainless Steel tubular frame work and SS shelves, Six
removable plastic bins and two polystyrene lockable
storage units with two drawers having containers of
different size, 125 mm heavy duty castors -4 nos. Four
corners buffers, cardiac massage board & oxygen cylinder
holder (MS)



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2 Defibrillator with Multiparameter Monitor

Description of Function


- Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.

Operational Requirements

- Defibrillator should be a low energy Bi-Phasic, Portable and latest model. Should not weigh more than 6 Kg (+/- 10% is acceptable)
- Should monitor vital parameters like ECG, Heart Rate
- Should print the ECG on thermal recorders
- Should work on Manual and Automated external defibrillation (AED) in Bi-phasic mode. The maximum energy delivered by the device should be upto 200J in manual mode and 150 J in AED mode
- Should be capable of doing synchronized & asynchronized cardioversion
- Can be operated from mains as well as battery
- Should have defibrillator self test facility
- Demonstration of the equipment quoted is a must

Technical Specifications :

- Should be a low energy biphasic defibrillator monitor with recorder, having capability to arrest all arrhythmia.
- Should monitor ECG through external paddles and monitoring electrodes and defibrillate through external paddles. Should have automatic/manual switching to see patient ECG through paddles or leads
- Should have factory integrated compensation for chest impedance for a range of 25 to 150 ohms
- Should have a built in printer/thermal recorder
- Should have charging time of less than 6 seconds for maximum energy. Charging indicator should be there
- Should have bright TFT colour display 7" or more for viewing messages and ECG waveform of 4 seconds
- Should have external paddles with paddle contact indicators. Single adult and paediatric paddles should be available.
- Should have event summary facility for recording and printing at least 50 events and 50 waveforms
- Should have a battery capable of 100 shocks delivery.
- Should be capable of printing reports on event summary, configuration, self test, battery capacity etc.
- Should have facility for self test/check before usage and set up function
- Upgradable to have SPO2, NIBP, CO2 and non-invasive pacing
- Should be capable of delivering energy in increments of 1-2 joules up to 10J and increments of 5-20 joules upto 50J.
- Should have user friendly 1,2,3 colour-coded operations
- Should be capable to connect internal paddles (price for internal paddle should be quoted separately)
- Should conduct automated self-test when switched on and should have a 'ready to use' indicator.
- Should have patient contact indicators on paddles for immediate feedback on patient-paddle contact for ensuring maximum shock efficacy
- Should have continuous 8 hours waveforms storage facility. It should have capacity to store at least 50 events of 30 minutes in length.


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System Configuration Accessories, spares and consumables:

- Defibrillator -01
- Paddles Adult/Paediatric (pair) -01
- Complete set of ECG Leads along with mother cable-01
- ECG Rolls- 01
- AED pads 01

Environmental factors

- The unit shall be capable of operating continuously in ambient temperature of 10-40°C and relative humidity of 15-90%
- The unit shall be capable of being stored continuously in ambient temperature of 0-50°C and relative humidity of 15-90%
- Power input to be 220-240VAC, 50Hz

Standards, Safety and Training

- Should be US-FDA / European CE approved product. Should be an IPX44 rated product
- Should have local service facility. The service provider should have necessary equipment recommended by the manufacturer to carry out preventive maintenance tests as per guidelines provide in the service/maintenance manual

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12/10/17
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Portable X-ray machine

- It should be economical, compact and powerful HF mobile X-ray
- It should have 200 KHz DC generator, Digital controls
- It should be small size and lightweight, easy to maneuverable,
- Out put range : 40 Kv- 110 Kv
- Maximum Ma : 100 Ma
- Peak power : 400 w
- Weight < 80 Kg
- Technology : HF integrated X-Ray,
- Controls : Soft touch key
- It should have LED collimation



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4 12 lead ECG Machine

ECG Functionality:

- Simultaneous lead acquisition and display of up to 12 leads.
- Up to 12 Configurable Rhythm Leads
- Full disclosure of each leads for 5 min with complete ECG report of any 10 seconds with continuous patient heart rate display
- Storage of 200 ECG for all 12 leads in XML/P
- DF Format on USB

Algorithm:

- >600 Interpretative statements
- Standard measurements of intervals, duration and axis.
- Selectable Interpretation
- STEMI clinical Support
- Five ECG reports, ST Segment Analysis with graphical ST Vector, frontal and transverse.
- Gender specific criteria to detect unique cardiac disease symptoms in Women.
- Right heart statements from right chest leads.
- Culprit Artery criteria that suggest any of 4 probable sites of occlusion with critical values requiring immediate clinical attention.

Signal Quality, Data acquisition & Processing:

- Leads off advisory for disconnected leads.
- Four Colour to indicate levels of waveform quality
- Detection of Lead reversals
- 8000 samples of second per lead wire
- Wide filter selection: 0.05 Hz to 150 Hz selectable as per applications
- Should have microprocessor controlled digital processing facility

Display & data input:

- High resolution colour 6.4" TFT display, with touch screen for quick use
- Continuous display of Patient Heart Rate
- Full Screen Preview of complete 12 lead report prior to printing
- Integrated graphical help screen for primary functions
- Full alphanumeric keyboard for quick patient data entry
- Storage, Recording & printout
- Built in high resolution thermal array printer (200 x 500 dpi).
- A4 size recording with rhythm for 12L ECG on single sheet
- 200 ECGs internal storage, and additional storage of 200 ECGs with optional USB device.

Power Supply:

- Li-Ion battery for printing at least 25 ECG on full charge battery
- Option for second Li-Ion battery for additional extended back-up
- Line power 100-240 V, 50/60 Hz with consumption less than 70W


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5) Non invasive BP monitor : To measure Blood pressure electronically, To be provided with Adult/ pediatric and neonatal cuffs, Should work on AAA batteries.

6) Glucometer with dectrostick :

Glucometer with 100 strips, Battery life : 1000 tests. Result time around 5 sec. Display LED type, sample volume : 0.5ul., Data transfer IISB

7) Stethoscope :

- Aluminium Alloy anodized 45mm chest pcs. It should have good quality diaphragm.
- 175mm head frame made of 5mm thick brass pipe

8) Pulse Oximeter

Measurement and display of haemoglobin oxygen saturation (SpO₂) . Used by clinical department/ward All . Overview of functional requirements Continuously display patient oxygen saturation in real time using an external probe on the skin. Contains adjustable alarms to alert when either saturation or heart rate is low. Reusable,sterilizable probes are robust and easily connected and disconnected. Operates from mains voltage or from internal rechargeable battery.

- a) SpO₂ measurement range at least 40- 70 and 70 to 99%, minimum gradation 1%
- b) Accuracy of SpO₂ better than $\pm 1\%$ for range 40-70 and better than $\pm 3\%$ for range 70-99
- c) Pulse rate range at least 30 to 240 bpm,minimum gradation 1 bpm.
- d) Accuracy of pulse rate better than ± 5 bpm.
- e) Signal strength or quality to be visually displayed.
- f) Audiovisual alarms required:high and low SpO₂ and pulse rate (operator variable settings),sensor disconnected,sensor failure,low battery.
- g) TFT Screen.
- h) Plethysmograph (may be in form of bar) display.
- i) Should have minimum 24hrs trend memory for SpO₂ & PR.

9) Laryngoscope

Fiberoptic laryngoscope with set of 4 blades useful for Adult/ pediatric and neonatal patients



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Technical Specification of Non-Invasive Ventilator

- I. Intended use for Non Invasive & Invasive
- II. Should use for both Pediatric & Adult (desirable 10kg onward)
- III. Noninvasive ventilator with advanced technology constant speed blower valve technology
- IV. Should have re-write SD cards with preset parameter (standard) setting for different modes for different patient diseases.
- V. Device must have advance technology
 - a. digital auto track, digital auto track sensitive & Flow-trigger
 - b. Volume assure pressure support technology for assured tidal volume
- VI. Should have automatic EPAP and automatic respiratory rate to overcome airway resistance
 - Should have detachable battery backup of at least 4hrs or more
 - Should have options of nurse call connector
 - Must have USFDA and CE

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Technical Specification

- I. Ventilation Mode:- CPAP, S, S/T, PC, T & AVAPS-AE IPAP : 4-40 cmH₂O (Spontaneous, Pressure Support, Spontaneous/time pressure Support, Time pressure Support, Pressure Control pressure support and Hybrid Ventilation Mode (volume assure pressure support))
- II. EPAP : 4-25 cm H₂O
- III. Breath Rate :- 0-40bpm
- IV. Ti : 0.5 sec to 3 sec
- V. Target Tidal volume :- 200-1500ml
- VI. Triggering and Cycling:- Automatic trigger ,sensitive and manual flow trigger.
- VII. Rise Time:100ms-600ms
- VIII. Alarms: Apnea, Low minute ventilation, Low Tidal Volume, High respiratory rate, Patient disconnection,
- IX. Bi Flex Pressure Relief : 0-3
- X. Leak Rate: 60 liters/minute
- XI. Highest Flow: more than 200 liters/minute
- XII. Monitoring:-Pressure, Tidal Volume, Respiratory Rate, Leak, I/E ratio
- XIII. Device should have capability to record event logs more than 10000

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Physical Specification & Accessories to be purchased

- I. Weight: less than 2.5 Kg
- II. Noise level: < 30 db.

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11. Oxygen Cylinder Portable

- * Easy to operate and portable
- * Lightweight (45% lighter than steel cylinder)
- * OxyKit Includes - Medical oxygen, Pin index regulator,
- * Nasal cannula & Bag
- * Easily refillable
- * Water capacity : 405L, Gas capacity : 675L
- * Diameter : 111
- * Working pressure : 150 Bar, Test pressure : 225 Bar
- * Kit weight around 7 - 8 kg
- * Duration around : 1.5 Lt/min : Around 9 hours


12. Technical Specification for Trolley for Instruments

- The Trolley should be full Stainless Steel
- The top should have a size of 18" (L) x 18" (W) x 42" (H)
- It should consist of a plastic drawer below the top shelf.
- The Plastic Drawer should also have partitions to segregate small instruments.
- The trolley should consist of 3 shelves overall

13 High Stool for procedures: SS made suitable for surgeon to sit and carry out procedures.

14 IV stand :

Specification: Height adjustment (approx.): 1350 mm to 2400 mm. Stainless steel tubular framework. Five pronged tubular base. Five castors 50 mm dia, without brake. Stainless steel rod with two hooks.


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15. Technical Specification:- Neonatal Trolley with Overhead Arm

1. Microcomputer controlled Radiant heat warmer (servo controlled) should provide controlled warmth during resuscitation of newborn babies.
2. Complete Stainless steel fabrication including trolley
3. User friendly feather touch control switches
4. Bright temperature display
5. Separate set temperature display. Set temp range 34-38° C (>37.0° override). Skin temp display 18-43° C. Accuracy +/- 0.2° C (31° C to 37° C)
6. Display for % of heater output. Heater output 0-100%, 10% increments
7. Control mode : Air mode/ Pre-warm mode and skin mode
8. Pre-warm mode with time programmable, Heater output settable, Over temperature safety cut off.
9. APGAR timer : Alerts at 1, 5 and 10 minutes.
10. Audio alarm volume control preferable
11. Safety alarms : Probe failure, >10 C of set temperature, 390 C Air temperature, power failure.
12. Safety high skin temperature cut off at 390 C
13. Heater box should consist of ceramic infrared heater
14. The source box should be swivel type to take X-ray
15. Examination quartz lamp 50 W with illumination >0.11 lumens/cm² (100 ft. Candles).
16. Attached Baby bed with following facilities i. Minimum 6mm thick collapsible side supports ii. Baby tray with head up/down facility upto 45 degrees with thick cushion mattress iii. Separate X-ray guide for positioning the cassette iv. Open shelves, 2 Nos.
17. Patient gas supply Flow control range 0-15 LPM Airway pressure limit- Adjustable 0-50 cm H₂O.
18. Autobreath infant resuscitator i. Adjustable breath rate range 18-60 BPM (+/-10% of setting) ii. I:E ratio Fixed at 1:2 Nominal iii. Pressure (PEEP) 0-18 H₂O (0-1.77 kPa) iv. Gas bleed 5 LPM Max v. Precision blender (optional) 21-100% O₂ +/-3% O₂
19. Oxygen regulator with hose pipe, holding to keep oxygen cylinder of medium size (5 liters), flow meter, humidifier bottle with silicon tubings
20. Electrically operated suction unit should provide safe settable suction(0-150 mm Hg) required for neonates



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16 Double Surface LED Phototherapy Unit

The specification for top unit should confirm to the following :

- Light unit should be made of easily cleanable plastic material
- It should be fanless technology
- Life time of the LED's should be more than 1 lakh hours
- Spectral Irradiance of minimum $35 - 45 \mu W/cm^2 \cdot nm^{-1}$ at 45 cm distance between bed and light unit.
- Wavelength: between 445 - 470 nm and should be free from UV and IR radiation.
- Effective surface area should be at least 250×500 mm within a irradiance ratio of 0.4 (min/max irradiance)
- Should have adjustable Light intensity (high / low settings)
- Digital Timer for monitoring therapy hours (resettable) & lamp usage hours (non resettable)
- Smooth Height adjustment mechanism with adjustable height
- Smooth light unit tilting mechanism
- Minimum height should be approximately 1100 mm from the floor to use near the mother bed
- Maximum height should be approximately 1600 mm from the floor to use with the incubator
- Electric supply: Universal Power supply 100V - 240V AC, 50Hz to 60Hz with a power rating of 45W (Max)
- Coating: Epoxy/powder coated body for scratch and rust prevention and PU (Poly Urethane) coating for plastic
- Mobility: Three castors; two rear castors provided with brakes
- The base of the unit should be such that it will go beneath any incubator/bed/trolley, with minimum of 100 mm floor clearance
- Lamp source should be continuous tiltable to (plus minus) 45-degree angle to cover the entire treatment area. (i.e. Light intensity from blue LED's should be consistent across the treatment footprint at any angle of head tilt)
- Should be equipped with white light for the observation purpose
- Should consists of backlit LCD
- Should have coverage of maximum surface area at any angle is $1800 sqm$
- Should have slim sleek look for less space consumption and can be easily combined with other NICU equipment (Warmer / Incubator).

The specification for bottom unit should confirm to the following,

- Irradiance : $> 30 \mu W/cm^2/nm$ at 230V at infant bed
- Lamp Type : LED's
- Electric supply : 110-230V, 50 Hz, 2 A
- Power rating : Maximum - 25 W
- Time totaliser : Non-resettable Total therapy time
- Bassinet dimensions : Maximum of 78 cm x 52 cm x 15 cm
- Bassinet tilting : Up to 12°
- Weight of lamp unit : Less than 25 kg
- Bassinet : Transparent acrylic bassinet
- Coating : Epoxy/powder coated body for scratch resistance and rust
- Protection should conform to IEC-60601 safety standards
- Should occupy only very little bedside space for convenience in observation and procedures.
- Should have Trendelenburg positioning.
- The unit should be mobile with 4 swivel castors (2 No's. with brake and 2 No's. without brake)
- Device should be EMC certified as per IEC 60601-1-2 standard
- The system should have international European CE approval
- The manufacturer should be ISO 13485 certified


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17 Bilirubinometer :

- Slim, light, ergonomic design facilitates easy measurements
- LCD color screen facilitates operating in the low light levels of a nursery
- Easy-to-read, step-by-step instructions, graphics, and a fast measurement system contribute to enhanced proficiency and productivity
- Barcode scanning allows for accurate identification of patient or nurse information and decreases risk of charting errors
- Numeric keypad allows user to enter or attach patient or nurse information to the patient's bilirubin measurement
- On-board help system walks user through the measurement process and provides access to the online help menu
- BiliChek provides an option to interface with hospital charting and laboratory information systems.

BiliChek features technology advances that enhance its speed, reliability, and applicability

Specifications :

- Intended use: Pre, during, and post phototherapy
- Gestational age: 27-42 weeks
- Post-natal age: 0-20 days
- Patient weight range: 950-4,995 grams
- Total serum bilirubin range: 0-20 mg/dL, 0-340 $\mu\text{mol/L}$
- Accuracy (RMSE): ± 1.5 mg/dL at 66% of the time or one sigma, ± 26 $\mu\text{mol/L}$ at 66% of the time or one sigma
- Repeatability (SD): * ± 0.66 mg/dL, ± 11.2 $\mu\text{mol/L}$
- Correlation: $r = 0.90$

BiliChek hand-held unit

- Dimensions: 5.23 cm W x 20.45 cm L x 5.94 cm H (2.06 in W x 8.05 in L x 2.34 in H)
- Weight (with battery pack): 250 g (9 oz)

Battery pack


- Type: Lithium ion
- Voltage: 3.7 V
- Expected battery life (minimum): One year
- Recharge time (maximum): Eight hours

18 Oxygen Hood :

- Oxygen hood made of transparent acrylic for easy visibility.
- Neck port adjustment to minimize the wastage of oxygen.
- Two side ports for easy access during procedures.
- Oxygen inlet port and temperature port is available for easy access.
- It should be useful for Neonates & Infant



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Brest milk pump

- It should be easy to use.
- Dimensions: 13 cm x 11 cm x 4 cm
- Feeding Bottles & Accessories
- Cup should be of Silicon

20. Thermometer :

- Range : 32deg, C-45 deg
- Accuracy : +/- 0.3 deG. C.
- It should have LCD display, Auto showdown, Backlight display for easy to read in all light condition

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Nebuliser:

- It should be robust design for intensive use, suitable for the treatment of lower airways respiratory diseases like asthma, COPD, cystic fibrosis or emphysema.
- High efficiency with the Virtual Valve Technology Powerful compressor for high efficacy
- Dimensions : 7.2 x 14.2 x 9.8 cm
- Weight : 270 g

S. M. M.

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