Tender for

Supply & Installation of
EQUIPMENTS FOR PEDIATRIC MEDICINE WARD

File No : **J-11049 (002)/2013/S&P**

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Tender opening date (Technical bid): 06.12.2013, 04.00 PM

All India Institute of Medical Sciences, Bhubaneswar

All India Institute of Medical Sciences, Bhubaneswar

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All India Institute of Medical Sciences (AIIMS), Bhubaneswar, Odisha, an apex healthcare institute, established by an Act of Parliament under aegis of Ministry of Health & Family Welfare, Government of India, invites sealed tenders in two-bid system for supply & installation of the following items at the institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

S.No.	Item Description	Quantity
1.	EQUIPMENTS FOR PEDIATRIC MEDICINE WARD	20 (Twenty) Items

(Refer Details as per Annexure-'I')

Quotation should be sealed and superscribed with tender number and address to:

"Administrative Officer
All India Institute of Medical Sciences,
Patrapada,
Bhubaneswar- 751019

The sealed quotations should reach the Institute, latest by 06.12.2013 at 11.00 hrs and the technical bid will be opened on 06.12.2013 at 04:00 PM in the Administrative Office, AIIMS, Bhubaneswar of the Institute in the presence of the bidder(s) or their authorized representative(s), who will present at the scheduled date and time. The list of technically qualified bidders with the date of opening of financial bid shall be hoisted in the website of AIIMS, Bhubaneswar.

Terms & Conditions:

1. **Earnest Money Deposit:** The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.1,00,000 (One Lakh Only) by way of demand drafts only and Rs. 1,000/- as tender fees drawn in favour of the "AIIMS Bhubaneswar". (TENDERS NOT ACCOMPANIED WITH EMD/BID SECURITY AND TENDER FEES ALONGWITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED). The demand drafts shall be drawn in favour of "All India Institute of Medical Sciences, Bhubaneswar". The demand drafts for earnest money deposit must be enclosed in the envelope containing the technical bid.

   The EMD of the successful bidder shall be returned after the successful completion of contract / order and for unsuccessful bidder(s) it would be returned after award of the contract. Bid(s) received without demand drafts of EMD shall be liable for rejection.

The firms who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industrial (SSI) are exempted to submit the EMD (Copy of registration must be provided along with).

2. **Rate:** Rates should be quoted in Indian Rupees (INR) on F.O.R Basis at AIIMS, Bhubaneswar, Odisha, Inclusive of all the Charges, with break-ups as:

    - Basic Cost.
    - VAT /CST as applicable.
    - Insurance Charges if any
    - Total Cost (F.O.R at AIIMS Bhubaneswar).

3. **Validity:** The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

    In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. **Warranty / Guarantee:** Bid must be quoted with five (05) year comprehensive on-site warranty / guarantee and it will be started from the date of the satisfactory installation / commissioning of goods, against the defect of any manufacturing, workmanship and poor quality of the components. Warranty would be followed by 5 year CMC (Comprehensive maintenance contract with spares) @ 3% of the cost of the Machine with 5% increment every year. Vendor would submit list of Consumables required for running the machine along with its cost. During the warranty and CMC period the supplier/ company should provide a minimum of 04 (four) preventive maintenance as routine services. After sales services must be provided in the city of installation. In situations requiring service or repair of the unit outside the city of installation, the expenditure on the account of this will have to be borne by the supplier.
5. **Uptime guarantee:** The firm should provide uptime guarantee of 95% during warranty and CMC period, with acceptance of the penalty clause in case of failure to do so.

6. **Downtime penalty Clause**

    During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handing over the unit to the Institute.

If accessories/other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.

The principal supplier or their service partners are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

7. **FALL CLAUSE**

If, at any time, during the said period, the supplier reduce the said prices of such Stores/Equipment or sales such stores to any other person/organization/Institution at a price lower than the chargeable, he shall forthwith notify such reduction or sale to the Director, All India Institute of Medical Sciences (AIIMS) Bhubaneswar and the price payable for the Stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

The supplier shall furnish the following certificate to the Accounts Officer (TC) along with each bill for payment for supplies made against in Rate Contract Tender.

"I/We certify that the Stores of description identical to the Stores supplied to the government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution upto date of bill/the date of completion of supplies against all supply orders placed during the currency of the tender/rate contract at the price lower than the institute under contract /against tender".

8. **Delivery & Installation**: All the goods ordered shall be delivered & installed within 4 weeks or earlier from the date of issuing purchase order. All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier.

If the supplier fails to delivered, installation and commissioning of the goods on or before the stipulated date, then a penalty at the rate of 2% per week of the total order value shall be levied subject to maximum of 10% of the total order value.

9. **Performance Security:** The supplier shall require to submit the performance security in the form of irrevocable Bank Guarantee (BG) / or Fixed Deposit Receipt (FDR) issued by any Nationalised Bank for an amount of which is equal to the 10% of the order value and should be kept valid for a period of 30 day beyond completion of all the contractual obligation including CMC period.

10. **Payment Term:**

- 70% payment of the total order value shall be released after the successful installation/ commissioning of the ordered goods against the submission of the test report.

- Balance 30% of the order value shall be released within one month after successful installation, commissioning & functioning of the equipment and the submission of the performance security.

11. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.

12. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid.

13. After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer.

14. Conditional bid will be treated as unresponsive and it may be rejected.

15. The Institute reserves the right to accept in part or in full or reject any or more quotation(s) without assigning any reasons or cancel the tendering process and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

16. <u>TENDER EVALUATION</u>

Tenders evaluation will be done in **two stages**:

a. Technical bid and
b. Price bid.

Each bid to be submitted in separate sealed envelopes super-scribed as "Technical Bid" and "Price Bid" respectively. All these 2 envelopes should be put in another envelope marked as "**Tender for Equipment for pediatric medicine ward for AIIMS, Bhubaneswar"** sealed with sealing wax.

<u>TECHNICAL BID:</u>

The firm should submit the technical bid in a sealed cover separately super-scribing **"Technical Bid for Equipment for pediatric medicine ward"**along with Name and address of the Bidder. Technical bid should contain:

a. The name of items with specification and makes/brands of the items, indigenous or imported with name of manufacturer & address must be enclosed.
b. Literature and catalogues in support of items quoted must be enclosed.
c. Whether the items quoted is as per specification, if not the statement of deviation (Parameter wise) from the tender technical specification must be enclosed.
d. Details about the
    i. Past experience (in years).

ii. Spares & services after the sale of the equipment.

e. Undertaking for providing CMC for 5 years after 5 years Warranty
f. Undertaking by manufacturer of equipment for servicing the equipment & supply of spare parts whenever required at least for 5 years after completion of warranty/Guaranty.
g. Name, Address, Phone & Fax No. of Service Centre at Bhubaneswar or nearby.

The Committee constituted by the Director will technically evaluate the items on the basis of specification as per Annexure I, make/brand quoted; literature enclosed, sample submitted wherever asked, the authority from manufacturer for the item etc. The items accepted technically will only be considered for price evaluation (price bid). Price should not be quoted with technical bid, otherwise the tender will be rejected without any correspondence.

PRICE BID:

Should be submitted in a separate sealed envelope super-scribing the word **"Price Bid forEquipment for pediatric medicine ward"** along with Name and address of the Bidder.

The price should indicate all inclusive lump sum price including cost of the item, freight, insurance, transit insurance, packing, forwarding, sales tax, excise duty, VAT, Octroi etc. and charges for installation and commissioning. No other charges in addition will be payable on any account over and above the lump sum price quoted. Offers with price variation clause will not be accepted. The rates quoted in ambiguous terms such as "Freight on actual basis" or "Taxes as applicable extra" or "Packing forwarding extra" will render the bid liable for rejection irrespective of its gradation in respect of lump sum prices quoted.

Bidders shall indicate the actual rate of octroi, excise duty, sales tax, VAT, etc. which will be payable.

Price quoted should be in Indian currency (INR).

17. Applicable Law:

- The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
- Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Bhubaneswar, Odisha, India only.
- The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Bhubaneswar. The decision of the Arbitrator shall be final and binding on both the partied.
- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

Annexure - I

Our quote for supplying the "Equipment for pediatric medicine ward" at AIIMS, Bhubaneswar will be as follows:-

Serial No	Name of the items required for purchase	Quantity required
1	Syringe Infusion Pump	6
2	Multi-parameter monitor	2
3	Pulse Oximeter	3
4	Resuscitation Trolley	1
5	Nebulizer (Baby)	2
6	Micro-centrifuge	1
7	Micro-hematocrit reader	1
8	Bilirubin Spectrophotometer	1
9	Phototherapy (Simple)	2
10	Phototherapy (Double surface)	2
11	Fluximeter	1
12	Bubble CPAP	1
13	Radiant Warmer with Baby Bassinet	4
14	Defibrillator (Manual and AED mode)	1
15	Laryngoscope with different size blades	2 sets
16	Resuscitation Bag (240 ml and 480 ml) with mask	2 sets
17	Weighing machine with Height measuring scale	1
18	Weighing scale (Infant)	2
19	Infantometer	1
20	Oxygen Hood (S & M) with connecting tubes	3 sets

SPECIFICATIONS FOR EQUIPMENT FOR PEDIATRIC MEDICINE WARD

Syringe Infusion Pump

Technical Specification

- Syringe capacity – 2 ml to 50ml
- Syringe Type – All available Indian and imported syringes. Provision to program other syringes as per requirement.
- Syringe Loading – Front Loading
- Flow rate – i) 0.1-100 mL/h (for 2, 5 ml syringes)
    - ii) 0.1-600 mL/h (for 10, 20, 30 mL syringes)
    - iii) 0.1-1200 mL/h (special function for 50 mL syringes)
- Bolus Rate should be available
- Volume Limit – From 0.1 ml to the capacity of syringe,
- Accuracy: i) Volume: + / - 2% max
    - ii) Flow rate: + / - 2 % max
- Flow Rate Display Change:
    - 0.1 mL/h steps (for settings from 0.1 to 99.9 mL/h)
    - 1 mL/h steps (for settings from 100 to 999 mL/h)
- Flow rate accuracy:
    - Mechanical accuracy : + 1%
    - Accuracy including syringe : +3%
- Should have the following Delivery Limit setting (optional): 0.1– 999.9 mL (in 0.1 mL steps).
- When the limit is reached, an alarm should occur and the infusion should
    - continue at KVO rate of 0.1 mL/h.
- Cumulative Vol. Display – 0.1 – 999.9 ml
- Occlusion level – Low : 25 to 55 KPa, Mid : 60 to 100 KPa& High : 90 to 150 KPa
- Keep Open rate – KOR (KVO): Should be available.
- Alarms – i) Battery Low (Pre alarm 30 min. before battery discharge
    - infusion end
    - Low Volume (Pre alarm before syringe empty 1-9 min. - user selectable)
    - Occlusion, KOR (KVO), Power failure, System error, Syringe (not installed or displaced), End of infusion
- Automatic syringe capacity detection, Master drug library – list of 100 drugs
- High speed infusion – password protected – user selectable

- Antibolus function – user selectable and auto power off – user selectable
- Key lock for flow rate during infusion – user selectable
- Should be mounted on bed/wall rail or mobile pole/stand (supplied with fixation)
- Should display reports systems errors, end of infusion and built –in battery status
- Internal rechargeable battery providing an operating time of at least 8 hours at 125 ml/hr and a recharging time of less than 10 hours.
- Should work on mains (220v/50 Hz).
    - Should not consume power more than: 50 Classification: Class, Type BF as per IEC60601–1 –1 & IPX–1 as per as IEC 947 – 1 Should be CE and USFDA certified.

Multi-parameter monitor

Technical Specification

- Should have high resolution minimum 12 inch active matrix LCD (TFT) display. Should be capable of displaying up to 6 waveforms simultaneously.
- Capable of Monitoring ECG,NIBP, SPO2, 2 IBPs
- Should use configured Modular expandable concept for both its hardware and software.
- Monitor should have built in selectable adult / pediatric / Neonatal mode or configuration modes.
- It is required for monitor to have single control knob–mouse type device for menu driven functional control with minimum hard keys for ease of operation.
- Each monitor to have onscreen, user help / support system to have single line prompt message to indicate function of the selected menu. An integral teaching program which provides systems operation via a paragraph oriented popup window format (optional).
- The monitor should use variety of tones to indicate the severity of an alarm with user adjustable alarm levels. (At least 3 to 4 levels of user defined levels).
- Bright alarm light at the bedside helps to immediately locate the patient in critical situations.
- Monitor should be software upgradeable electronically.
- Should have trending of all parameters within graphical and tabular presentation.
- ECG Monitoring capabilities on all the beds.
- Each monitor should have capability to show7 lead display with five lead wire system.
- Each monitor to be equip with smart lead fail system and switchover to best lead available in case one monitored lead is disconnected.
- Should have arrhythmia detection capability.
- Integral multi lead ST segment measurement program with template display.

- ECG acquisition through cables.
- Should have built in respiration via impedance pneumography.
- NIBP measurement should have oscillometric method of measurement with manual, auto and stat mode of measurement.
- SPO2 with auto wave sizing, signal strength, artifact rejection Technology.
- ETCO2 measurement – Both mainstream and low–flow side stream CO2 measurement options for applications from neonatal to adult patients.
- Standards:

i) European CE / FDA Approved

ii) IEC 60601-1 Certified

iii) UL 2601-1 Classified.

iv) Scope of supply must include:

- Basic unit with battery
- Should work on mains (220 volt/50 Hz) and Battery.
- Should have min. 3-hrs battery backup.
- 5 Lead ECG Cable-2sets
- SpO2 finger sensor with cable-2sets
- Adult NIBP Hose set with Cuff – 2 sizes for Pediatrics and Neonates (2 sizes).
- 50 sampling lines and 10 water traps
- IBP reusable cable for 2 IBP and 10 pcs disposable sensors
- Mountings (Arms, Plates) for Monitor.

Pulse Oximeter

Technical Specification

- The unit should be Microprocessor controlled, compact and fully portable to determine non-invasive measurement, the percentage oxygen saturation of hemoglobin in the arterial blood.
- The unit should provide a plethysmographic (waveform) display proportional to signal strength.
- It should be small light weight for easy portability.
- It should have backlit LCD display for easy viewing of the waveform even in the dark condition and large LED display for digital read-out of SpO2& pulse Rate values.
- The system should be easy to use and effective on patient, from neonates to adults.
- SpO2and pulse rate displays, alarm: low SpO2, high SpO2, low pulse, high pulse, (easily adjustable from front panel) diagnostic routines to aid in-house servicing.
- Unit should have built in software for artifact correction, stable display & accurate recording even if patient is moving.

- The unit should have built-in battery back-up.
- The unit should have a red alert bar to warn of alert conditions if audio is turned off.
- The pitch of pulse should vary with SpO2value.
- The unit should have minimum one year warranty.
- Further Specifications
    - Pulse rate range 30 - 250 beats per minute with accuracy +/2 bpm
    - SpO2 range 20 to 100% with accuracy +/2% (for 80-100% SpO2)
    - Alarm limit range Low SpO2 50-100%; High SpO2 70 - 100%
    - Alarm Limit: Low pulse 40 - 200 beats per minute. High pulse 70 - 250 beats per minute.
    - Operating temperature 10 to 40o C; Humidity: 0 to 90 % relative.
    - Power Source : 190-260 V, 50Hz, Single phase (5 Amps)
- Unit should conform to BIS 11753 standard or equivalent.
- The equipment should be suitable for operation in temperatures from 100 C to 450 C with a relative humidity of 100%.

Resuscitation Trolley

Technical Specification

- Should be durable with Ergonomic handle and should have easy grip
- Height should be 40-45”
- Should have 6-8 drawers of sizes 3x3”,2x6”,1x9”
- Should have interchangeable 3”,6”,9” drawers which run smoothly on good quality channels
- Should have provision of side storage which allows storage of variety accessories like can, storage bins, glove storage, sharp container set
- An over bridge can with baskets, shelves and bins to keep important things
- Should have AMS top surface & advance polymer material which is easy to clean. It should not dent, chip flake or corrode
- Should be easily rolling and has toe brakes
- Should have I.V. pole with clamps ach 3” drawer should have provision for 25-30 compartments
- Should have twin sheel castors & central lock
- Should be CE and ISO 900/2000 certified
- Should have CPR board & O2 cylinder holder

Nebulizer (Baby)

Technical Specification

- Piston type compressor (2.5 bar pressure)
- Powerful and silent unit
- Compressor flow: 11 L/min
- Nebulizer flow: 6.0 L/min
- Max. Pressure: 2.5 bar – 16 psi
- Accessories: mouth piece, nose piece.
- Pediatric mask, 't' piece, spare air filter (5 nos)
- The equipment should be suitable for operation in temperatures from 100C to 450C with a relative humidity of 100%
- Equipment sensitive to fluctuations should be provided with stabilizers.
- Controls (e.g switches, knobs) should be visible and clearly identified.
- Labels and markings should be clear and visible.
- Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts.
- Packaging and Storage

i) Packing of the equipment should be easy to open and well labeled and marked with devices name and sellers name and address.

ii) Equipment should be able to withstand temperature and humidity extremes likely to be encountered during storage and transportation.

- Equipment should conform to the equivalent Indian Standard or other equivalent international or third country standard for good manufacturing practice and safety.
- Bidders may please indicate standard(s) with which the product complies. Alternately bidders may indicate that their device is registered with a national or international medical devices regulation agencies such as USFDA or EUMDD which assures that the product meetsGMP, performance and safety standards

Micro-centrifuge

Technical Specification

- Benchtop centrifuge for quick assessment of hematocrit
- Rotation upto 12000 rpm, adjustable in increments of 100
- Timer settable in minutes, maximum preset 99 minutes
- Safety lid-lock feature and emergency lid release

- Motor overheating protection and imbalance shut-off
- Digital display shows rpm and time
- Angle rotor, 24 positions, maximum approx 16000 rcf
- Power requirements: 220 V / 50 Hz
- Power consumption: 200 W
- Device is produced by ISO 9001 certified manufacturer (Certificate to be submitted, further details see “Technical Provisions”)
- Device is safety certified according CE 93/42, FDA 510k or equivalent (Certificate to be submitted, further details see “Technical Provisions”)

Supplied with:

- 1 x box of micro capilary tubes, inner diam 1mm, length 7mm, heparinzed,
- 1 x pack of sealing compound for micro capilary tubes
- 1 x spare set of fuses
- User manual with trouble shooting guidance, in English
- Technical manual with maintenance and first line technical intervention instructions, in English
- List of priced accessories
- List of priced spare parts
- List with name and address of technical service providers in India
- Training and installation at end-user site
    - Proposal for full service AMC, year 1 to 5, covering (i) 2 preventive maintenances per year, (ii) on-call technical interventions, spare parts and travel

Micro-hematocrit reader

Technical Specification

- Universal capillary tube reader
- With two ruled charts for precise determination of spin hematocrit values.
- Constructed from durable, washable, vinyl-laminated plastic.
- Scaled for standard 75 mm tubes

Bilirubin Spectrophotometer

Main Characteristics

- Microprocessor Controlled
- Auto zero Function
- Handles hemolysis and turbidity easily
- Easy set of the sample tube
- Alarm lamp informs user of abnormalities
- Flexible power source
- Easy lamp replacement
- Technical Specification Proper
    - Filters: 461nm & 551nm
    - Measurement Range: 0-30 mg/dl or 0-500 micromol/L (Total Bilirubin)
    - Correcting hemolysis: 0-250 mg/dl HbCV
    - Measuring accuracy: +/-5%
    - Sample Volume: only two drops of peripheral capillary finger puncture blood
    - Alarm Display: 3-1/2, 7-segment red LED
    - Sample container: Hematicrit capillary tube
    - Light Source: 6V, 1.5A tungsten lamp
    - Photocell: Silicon photocell
    - Power supply 90-240 VAC 50/60Hz, 35w
    - Dimensions: 280mm (w) x2

Phototherapy (Simple)

1. The system should meet all the numerical values given in the technical specifications within a tolerance of +/- 10 %.

Technical specifications

- 20 Watt 2 Feet special blue lights (TL52, Philips, HOLLAND) ¡V 4 Nos.
- Two day light tubes of Philips for observation.
- Special mirror coated reflector.
- Stand on stable swivel castor wheels.
- Adjustable height 130 cm to 170 cm.
- Adjustable angle / rotation -180 deg to +180 deg continuous.
- Irradiance 18-20 µW/cm2/nm at 45 cm from the lamp.
- Clear filter.
- Source cooling fan.
- Time totalizer.

2. The unit shall be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%
3. The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%
4. Should be FDA , CE,UL or BIS approved product
5. Shall CERTIFIED to be meeting Electrical Safety requirements as per IEC 60601-2-50 Medical Electrical Equipment part-2-50 Particular requirements for the safety of Infant Phototherapy Equipments
6. Manufacturer should be ISO certified for quality standards.
7. Comprehensive warranty for 2 years and 5 years CMC after warranty including UPS

Phototherapy (Double surface)

1. The system should meet all the numerical values given in the technical specifications within a tolerance of +/- 10 %.

   Technical specifications

   - It should be two-way of phototherapy unit i.e. one phototherapy lamp should be from top and the other from below (both overhead and undersurface).
   - There should be option to use either of the lamps. In other words, whenever only overhead exposure is desired, the attending health care provider may have option to operate only the overhead lamp and not the lamp below the bed, and vice versa.
   - Each lamp unit should be provided with 4 tubes emitting blue radiation between 450-480 nm wavelengths.
   - One each side of the panel of overhead tubes, day light tube should be provided to facilitate observation of baby and for performing practical procedures whenever required.
   - It should have height adjustment facility.
   - It should allow easy swiveling of box to allow positioning of portable x-ray machine.
   - The unit should be mounted on stand having lockable wheels (castors) for easy transportation from one place to other.
   - At the baby's surface, the exposure should be 18-20 MicroWatt/cm2/nm.
2. The unit shall be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%
3. The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%
4. Should be FDA , CE,UL or BIS approved product

5. Shall CERTIFIED to be meeting Electrical Safety requirements as per IEC 60601-2-50 Medical Electrical Equipment part-2-50 Particular requirements for the safety of Infant Phototherapy Equipments
6. Manufacturer should be ISO certified for quality standards.
7. Comprehensive warranty for 2 years and 5 years CMC after warranty including UPS

Fluximeter

Technical Specification

- Spectral range should be between 429-473nm(max.97% response at 453nm)
- Measurement range should range from 0-1999 uW/cm2
- Resolution should be 1uW/cm2
- Lens of the probe should match the cosine receiving function of human skin.

Bubble CPAP

Technical Specification

- Servo controlled humidifier base with digital temperature display alarms for conditions like high and low temperature, humidity and disconnections.
- Humidifier chamber with constant compressible volume to maintain CPAP pressure
- Heated breathing circuit with heater wire technology to provide proper humidification
- CPAP generator with adjustable CPAP from 3- 10 cm H20 with generation of bubbles
- Safety provision for maximum pressure limiting in case of occlusions
- Non-invasive interface should include:
    - Nasal tubing to hold the nasal prongs
    - Nasal prongs of silicon in various sizes based on nares diameter and width of septum
    - Infant bonnets /caps of different sizes to fit on head to hold nasal tubing and prongs
    - Air oxygen blender to deliver gas with selectable FiO2 (21%-100%)
- Unit should be supplied with mobile pole with castors ,,mounting brackets and iv hook Unit should be supplied with proper demonstration ,user manual and setup guides
- Unit should be compliant with international safety regulations and certifications like CE or FDA

Radiant Warmer with Baby Bassinet

Technical Specification

- It should be microprocessor controlled radiant warmer with manual and servo options
- It should have facility to display both skin and air (ambient) temperature separately.
- It should have audiovisual alarm facility for overheating beyond set temperature range.

- It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above or below the set range.
- It should rotate and swivel in different direction, so as to allow taking X ray.
- The light should be dazzle free.
- It should have alarm for power failure.
- It should have alarm for heater failure.
- It should have alarm for probe failure.
- It should have time out alarm in manual mode.
- It should have inbuilt or provided along rechargeable battery to run equipment in case of power failure for at least ½ hour.
- It should have manual setting for high and low alarm setting.
- In servo mode, the heater output should be controlled to maintain the baby at the required set temperature.
- In manual mode, the heater output should be directly controlled by a setting on the front panel.
- The desired temperature range from 25 to 40 degree C.
- The resolution should be 0.1 degree C.
- The height of the warmer should be adjustable for different types of bed.
- Halogen based observation light should be provided for observing the baby.
- It should be mounted on a pole with sturdy base with lockable castors.
- Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.
- The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
- The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
- Power input to be 220-240 VAC, 50Hz fitted with Indian plug
- Suitable Autovoltage corrector with spike protector should be available.
- Should be FDA , CE,UL or BIS approved product
- Manufacturer should be ISO certified for quality standards.
- Certified to be compliant with IEC 60601-2-21, Medical Electrical Equipments part-2-21 particular requirements for Electrical Safety of Infant Radiant Warmers.
- Comprehensive warranty for 2 years and 5 years AMC after warranty

- Should have local service facility.The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

Defibrillator (Manual and AED mode)

Portable Bipahsic Defibrillator with ECG monitor required as follows:

a) Should have Manual & AED Modes

b) Should have control for ON/OFF, electrode test, ECG size, display freeze.

c) Should be supplied with power cable and patient electrode leads.

Defibrillator

- Should be portable, sturdy, operational ease with safety international standards for Class II instruments
- Should have a non - fade display LCD of not less than 5"
- Should display ECG, Heart Rate, Date, Time & Energy
- Selection of energy by rotary switch
- Visual indication of power ON, charge remaining in battery.
- Audio indication of alarm systems.
- Accessories including pediatric paddles.
- Should have armed Indicators- change done tone and should display available energy
- Should have a synchronizer- Merge available on monitor should be annotated on printer
- Should also have AED Mode with Voice and text prompts
- Should have hands free defibrillator patient cable length of at least 3 ft
- Should have a battery indicator with low battery message on display
- Should have provision for printing real time shock delivery usage / with event marker
- Should have contact indicator on paddles
- Should supply 10 nos. of ECG print paper rolls
- Should supply a Transport trolley for mobility.

Technical Specification

- Charging time of condenser should be less than 5 seconds at 200 Joules
- Battery charging time should be less than 18 hours.
- Should have a sweep speed 25mm / sec.
- Lead selector - Paddle leads I, II & III
- Should have alarm setting in approx. range from 15 to 260 BPM.
- Should have frequency response of 0.5 to 40 Hz.
- Delivered Energy: Should have multiple discharge capacity from 1 to 200 joules
- Power requirement - 190 - 260 VAC / 50 Hz / single phase.
- Should weigh less than 12 Kg.
- Full charged battery should work for at least 1 hour or with 30 discharge at maximum selection of energy
- Should have event summary facility minimum of 200events & 50 wave forms
- Shall be able to upgrade Non-invasive spo2 Measurement

- Standard accessories should include power cord, grounding wires, surface paddles (adult, pediatric), ECG relay cord, lead cable, dust cover, operation and technical maintenance manuals should be provided.
- Heart rate measurement range should not be less than 20 to 250 bpm or more with +3 - 5 % accuracy. EKG cable with lead -1 set.
- Equipment should be provided with a line cord (power cord) of acceptable durability, quality, length and current carrying capacity.
- Equipment should include power plugs that are sufficient for maximum voltage and current of the equipment.
- If fuses are used, a spare fuse should be provided Permanent marking near each fuse holder should indicate fuse ratings.
- Equipment sensitive to fluctuations should be provided with stabilizers.
- Equipment performance should not be affected by electromagnetic interference radiated or conducted through power lines from another device.
- Equipment should have no sharp edges, should be securely mounted and should provide adequate protection against moving and electrically energized parts.
- Controls (e.g. switches knobs) should be visible and clearly identified.
- Labels and markings should be clear and visible.
- Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts.
- Packaging and Storage
    - Packing of the equipment should be easy to open and welllabeled and marked with devices name and sellers name and address.
- Equipment should be able to withstand temperature and humidity extremes likely to be encountered during storage and transportation.
- Bidders may please indicate standard(s) with which the product complies. Alternately bidders may indicate that their device is registered with national or international medical devices regulation agencies such as USFDA or EUMDD which assures that the product meets GMP, performance and safety standards.

Laryngoscope with blades

Technical Specification

1. Miller type
    a. Should be suitable for use on Neonatal Patients
    b. Should have a Penlight Handle
    c. Should be supplied with Laryngoscope blades of OO, O and 1 size miller type blades
    d. Fibre-optic with spare bulb.
2. McIntosh type with different sized blades.

Resuscitation Bag with mask

Technical Specification

- Should have Silicon elastic material

- Should have single hand operation
- Should have easy to disassemble for cleaning and disinfection
- Should be auto cleavable up to 134 degree centigrade
- Should have high quality pressure relief valve at 40 cm H2O
- Should have Oxygen reservoir
- Should have 250ml, 500ml and 750 ml each
- Should have silicon face mask

Weighing machine with Height measuring scale

Technical Specification

- It should be a platform type of weight and height measuring scale on which the patient can stand for measurement of weight and height.
- It should be a robust model for day to day rough use in wards and OPD.
- It should measure the weight in kilogram.
- There should be LCD display of weight.
- It should measure the height in centimeter.
- It should be equipped with tare function to allow a baby to be weighed in its mother's arms.
- The graduation of measuring weight should be 50 gm.
- The height measuring rod should be attached with it.
- The scale should also have BMI function.
- It should measure the height from 60 cm onwards. In other words, the minimum height which it can measure should be 60 cm.
- It should be mounted on transport castors to allow free mobility from one place to other.
- Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.
- The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
- The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
- Should work on 220-240V AC as well as rechargeable batteries. Mains adaptor to be supplied
- Should be FDA , CE,UL or BIS approved product
- Manufacturer should be ISO certfied for quality standards
- Comprehensive warranty for 2 years and 5 years AMC after warranty

Weighing scale (Infant)

Technical Specification

- Microprocessor based electronic weighing with facility to weight lying down as well as standing babies
- Weight range 0-20 kg (minimum weight to be weighing 20 g).
- Accuracy +/- 5gms, resolution 5 g.
- Unit should have facility accurately weighs the hectic / active baby and retain the digital display for 30 sec. Even baby is removed from the scale.
- Zeroing facility (when disposable sheets are used above the tray). Display should show negative reading when linen is removed.
- Unit should have facility to "Freeze" display to show reading even whom baby is removed.
- Durable HIP molded baby tray, it should be detachable, to weigh standing babies. Baby construction do not allow baby to be injured or slip from the scale.
- Large bright red display for strain free reading
- The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%
- The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%
- Power input to be 220-240VAC, 50Hz fitted with Indian plug
- Should be FDA , CE,UL or BIS approved product
- Manufacturer should be ISO certified for quality standards
- Comprehensive warranty for 2 years and 5 years AMC after warranty

Infantometer

Technical Specification

- Portable baby/infant length-height measuring system
- Measures laying length of neonates and babies
- No need for calibration as all parts have prefixed position
- Reads in centimeters and inches
- Minimum graduation: 1 mm
- Long-lasting hard-wearing ruler/graduation is fully integrated with device
- Measuring slide/wedge glides smoothly and close via ruler, avoiding reading parallax
- Measuring slide/wedge wobbles max 2 mm, over full length
- No sharp edges or corners
- Low stable board, width: ca 30 cm

- Length, measurement range, approx: 100 cm
- Head/footplate, board and slide/wedge made of quality laminated wood or plastic
- Wood parts should be treated and finished/protected with varnish to prevent chipping of edges and allow easy cleaning; all connections should screwed/nailed plus glued
- Device is produced by ISO 9001 certified manufacturer (Certificate to be submitted, further details see “Technical Provisions

Supplied with:

- User manual with trouble shooting guidance, in English
- List of priced accessories
- List of priced spare parts
- List with name and address of technical service providers in India
- Assembly and installation at end-user site

Oxygen Hood (S & M)

Technical Specification

- Round shape
- 3 x size small, approx: height 22 cm, diam 25 cm
- 3 x size medium, approx: height 18 cm, diam 20 cm
- Made of autoclavable polycarbonate
- Trauma free silicone neck, with adjustment flap
- With bilateral oxygen nozzle
- Oxygen tube of 2 m length must be provided with
- Device is produced by ISO 9001 certified manufacturer (Certificate to be submitted, further details see “Technical Provisions”)
- Device is safety certified according CE 93/42, FDA 510k or equivalent (Certificate to be submitted, further details see “Technical Provisions”)

Supplied with:

- 1 x spare set of tubing
- User manual with trouble shooting guidance, in English
- Technical manual with maintenance and first line technical intervention instructions, in English
- List of priced accessories
- List of priced spare parts
- List with name and address of technical service providers in India

Annexure-II

Inviting of sealed quotations for supply and installation of equipment for pediatric medicine ward at AIIMS, Bhubaneswar

TECHNICAL BID

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director.	
Phone & Mobile No.	
Name and address of service centre near by Bhubaneswar.	
Whether the firm is a registered firm Yes/No (attached copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
Sales/Service Tax No. (enclose the attested copy of Service Tax Certificate)	
VAT No. (enclose the attested copy of VAT Certificate)	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque/BG of Rs.1,00,000 as Earnest Money Deposit. Rs 1,000/- as Tender Fees	
Whether the Firm/Agency has signed each and every page of Tender/NIT	
Please provide full list of consumables.	
Any other information, if necessary	

Authorized signatory of the bidder with seal.

Annexure-III

Financial Bid

(To be submitted on the letterhead of the company / firm)

Sl. No	Name of Item	Quantity	Rate	Vat/Taxes etc	Amount
1.	Equipment for pediatric medicine ward	20 (Twenty) Items			

1. I/We have gone through the terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. No other charges would be payable by the Institute.

Authorized signatory of the bidder with seal.