

NOTICE TENDER
Pediatrics Equipments
AIIMS, Raipur, Tatibandh, Raipur,
Date: 10th Sep. 2013

On behalf of the Director, All India Institute of Medical Sciences, Raipur tenders in sealed cover are invited under **two-bid** system from manufacture and their authorised dealers/ distributors for providing Hospital Consumable for AIIMS Raipur.

The interested manufactures and their authorised dealers/ distributors are required to submit the technical and financial bid separately. The bids in Sealed Cover-I containing "Technical Bid" and Sealed Cover-II containing "Financial Bid" should be placed in a third sealed cover super scribed **"Tender For Pediatrics Equipments"** and should reach at the office of **"The Administrative Officer, AIIMS, Tatibandh Raipur (CG) - 492001,** by or before on 03.00 PM on **10-10-2013**. The bid received after due date and time will not be entertained whatsoever may be the reason. The technical bids shall be opened on the same day at **03.00 PM** at AIIMS, Raipur. In the event of any of the abovementioned date being declared as a holiday / closed day, the tenders will be opened on the next working day at the appointed time. The date of technical evaluation of items and opening of financial bid of technically qualified agencies will be announced later.

The tender document containing technical bid form, financial bid form, technical description/specification & item and terms & conditions can be downloaded from website www.aiimsraipur.edu.in. Demand Draft/Pay Order for Rs.5000/- (Rupees Five thousand only) (non-refundable) in favour of **"AIIMS, Raipur"**, payable at **Raipur**, against cost of the tender document along with their technical bid in the Cover-I "Technical Bid". The amount of bid security (EMD) for **Tender For Pediatrics Equipments of Rs. 3,00,000/- (Rupees Three Lakh)** of tender documents should be paid by FDR/DD in favour of **"AIIMS, Raipur"** payable at **Raipur** and will be placed in cover-1 with technical bid. The Tender Documents are not transferable.

Any future clarification and/or corrigendum(s) shall be communicated through Administrative Officer on the AIIMS, Raipur website: www.aiimsraipur.edu.in.

Administrative Officer
AIIMS, Raipur

TENDER DOCUMENT
“Pediatrics Equipments”
 AIIMS, Raipur

TECHNICAL BID
(In separate sealed Cover-I super scribed as “Technical Bid”)

1.	Name & Address of the manufacture and their authorised dealers/ distributors/Agency with phone number, email, name and telephone/mobile	
2.	Specify your firm/company is a manufactures/ authorised dealer/distributor/ Agency	
3.	Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
4.	Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof. Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. If you don't fulfil this criteria, your tender will be out rightly rejected.	
5.	Detailed & exact specification of the product available with the vendor should be mentioned in the technical bid in Annexure-I only. Mentioning 'Yes' or 'No' is not sufficient. Original product boucher with details of the product quoted should be attached along with. Bids not complying with this instruction will be out-rightly rejected.	
6.	Please attach copy of last of Income Tax Return	
7.	Please attach balance sheet (<i>duly certified by Chartered Accountant</i>) for last three (3) years (Annual minimum turnover should not be less than 25 lakhs)	
8.	PAN No. (Please attach copy)	
9.	VAT/Service Tax Registration Number. (Please attach copy)	
10.	Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
11.	Power of Attorney/authorization for signing the bid documents	
12.	Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner. Please also declare that proprietor/firm has never been black listed by any organization.	
13.	Details of the FDR/DD of bid security (EMD) FDR/DD No: Date: Payable at	Detail of cost of Tender for Rs. 5000/- (if downloaded from website) DD No. Date: Payable at-

Declaration by the Tenderer:

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

Encls:

1. DD/Pay Order (if tender form is downloaded from the website of this Institute)
2. FDR/DD
3. Terms & Conditions (each page must be signed and sealed)
4. Financial Bid

Place:.....

Date:.....

(Signature of Tenderer with seal)

Name:

Address :

“Pediatrics Equipment”
AIIMS, Raipur
FINANCIAL BID

(In sealed Cover-II super scribed “Financial Bid”)

To,
The Administrative Officer
AIIMS, Raipur. (CGF)

Dear Sir

Our Quoted rate for supplying the Pediatric Equipment for AIIMS, Raipur will be as follows:-

No.	Name of the Items required to be purchased	Quantity Required	Unit Cost in Rs.	Total Cost in Rs
1.	Pediatric Ventilator	2		
2.	Pediatric Multipara Monitor with Central station	2		
3.	Multipara monitor for wards	4		
4.	Syringe Infusion Pumps	10		
5.	Defibrillator with AED	1		
6.	Portable ECG Machine	1		
7.	Self Inflating Bag 250ml (double wall silicone)	10		
8.	Self Inflating Bag 500ml (double wall silicone)	10		
9.	Self Inflating Bag 750ml (double wall silicone)	10		
10.	Self Inflating Bag 1300ml (double wall silicone)	5		
11.	Laryngoscope handle with blade size 00, 0, 1 (straight)	2		
12.	Laryngoscope handle with blade size 1,2,3 (curved)	2		
13.	Resuscitation trolley	2		
	Total Estimated Cost			

SPECIAL CONDITIONS

1. The cost shows in column 'D' should be inclusive of supply installation, Testing and commissioning of the equipment with 5 year warranty.
2. The bidders should submit the relevant certificates / evidence of previous supply to other hospitals. If required, the technical committee may enquire from the other hospitals where the bidders have supplied the material.
3. The bidders should also submit a certificate from the relevant authority as to the quality of the equipment.
4. The bidder should not have been blacklisted before.
5. The bidders shall also arrange for the demonstration of their equipment to the concerned committee regarding the quality aspect.

The above quote should include all applicable taxes. If the rates of various items are L1 for different Tenderer, the AIIMS Raipur reserve the right to either accept the L1 of different firm/agencies or will negotiate, with the firm who has quoted the maximum gross value of L1 items to lower the rate of other item up to the limit of L1 quoted by other firms. In this context, final decision of the committee will be binding to all and no claim in the regard can be entertained. The quantity indicated is tentative and may vary, and any decision in this regard by Director AIIMS Raipur shall be final.

Declaration by the Bidder:

1. This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained in Tender document regarding terms & condition of the contract, rules regarding purchase of Hospital Consumables. I/we agree to abide them.
2. No other charges would be payable by Client and there would be no increase in rates during the Contract period.

Place:.....

(Signature of Bidder with seal)

Date:.....

Name :

Seal :

Address:

“Pediatrics Equipments”

AIIMS, Raipur

Terms & Conditions

(A) Information and Conditions relating to Submission of Bids

1. The tender document containing eligibility criteria, scope of work, terms & conditions and draft agreement can be downloaded from website www.aiimsraipur.edu.in. Those who download the tender document from Website should enclose a Demand Draft/Pay Order for Rs. 5000/- (Rupees Five thousand only) in favour of “AIIMS, Raipur”, payable at Raipur, not later the date of 10-10-2013, along with their bid in the Cover-I containing “Technical Bid”.
2. The interested firms/suppliers are required to submit the Technical and Financial Bids separately in the format enclosed. The bids in sealed Cover-I containing “Technical Bid” and sealed Cover-II containing “Financial Bid” should be placed in a third sealed cover super scribed “Tender for Purchase of “Pediatrics Equipments” should reach AIIMS, Raipur by or before 03.00 PM on 10-10-2013. The Technical bids shall be opened on same day at 03.00 PM at AIIMS, Raipur in presence of the bidders or their authorized representatives who choose to remain present. The Tender received after due date & time will be rejected and no claim shall be entertained whatsoever may be the reason.
3. The bidders are required to submit their query in writing before 01-10-2013 to DDA, AIIMS Raipur, if any.
4. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the Authorized signatory signs the tenders, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.
5. All entries in the tender form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting or cutting is permitted in the Technical Bid as well as Financial Bid unless authenticated by full signature of bidder. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filled up carefully by the tenderer. All Corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

6. The bidder shall pay an amount of Rs. 3,00,000/- as Bid Security (EMD) alongwith the Technical Bid in the form of FDR/DD in favour of “AIIMS, Raipur” drawn on any Nationalized Bank/ Scheduled Bank and payable at Raipur and must be valid for (6) six month. Bids received EMD shall stand rejected and thus shall not be considered for evaluation etc at any stage. The original EMD will be put in cover-I containing Technical bid.
 - a. The Public Sector Undertaking of the Central/State Govt. are exempted from furnishing Earnest Money along with tender.
 - b. The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
 - c. Earnest Money deposited with AIIMS, Raipur in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.
7. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract.
8. The successful bidders has to constitute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) and also required to furnish the security deposit @ 10% of contract value in the form of FDR/DD/PBG of any nationalised bank in favour of AIIMS, Raipur & payable at Raipur only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 15 (fifteen) days after the issue of Letter of Award of Work, his bid security (EMD) shall be forfeited unless time extension has been granted by AIIMS, Raipur.
9. The EMD shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.
10. The bid shall be valid and open for acceptance of the competent authority for a period of 180 (one hundred eighty) days from the date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained
11. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.
12. After evaluation, the work shall be awarded normally to the Agency fulfilling all the

conditions and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.

13. The competent authority of AIIMS, Raipur reserved all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any term and condition of the tender enquiry after due discussion in pre bid conference. This will be communicated to all tenderers in writing. AIIMS, Raipur also reserves the right to reject any bid, which in his opinion is non-responsive, or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.
14. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
15. Canvassing in any form is strictly prohibited and the tenderer who are found canvassing are liable to have their tenders rejected out rightly.

(B) OTHER TERMS & CONDITIONS OF THE TENDER

1. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at FOR AIIMS Raipur.
2. All the rates should be mention in Indian national currency (INR) only. The rates quoted in foreign currency will not be entertained in this tender enquiry & such tenders will be cancelled straightway.
3. Rates should be mentioned both in figures and in words. The offer should be typed or written in Ink Pen/ Ball Pen without any correction. Offers in pencil will be cancelled. Telegraphic/ Telex/ Fax offers will not be considered and cancelled straightway.
4. **Guarantee / Warranty period:** The tenderers must quote for 5 years on site warranty from the date of completion of the satisfactory installation. The Warranty charges **shall not** be quoted separately otherwise the offer shall be summarily rejected. Also the Bidders should submit their quote for subsequent 5 years on site AMC (without spare parts) / on site CMC (include free labour, repair, other services & spare parts). Failure to comply this condition will entail the rejection of the Bids. The price comparison shall be made taking into account on basic price and post warranty AMC / CMC. The Rate Contracting Authority reserves the right to award AMC / CMC. A.M.C. (without spare parts) shall be quoted for equipments costing upto Rs.5.00 Lacs and C.M.C. (include free labour, repair, other services & spare parts) shall be quoted for equipments costing above Rs.5.00 Lacs. So the price of AMC / CMC should be quoted according to the cost of equipment.
5. The supplier shall submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier

has quoted lower rates than those quoted in this tender, the Institute (the purchaser) would be given the benefit of lower rates by the Supplier. If such affidavit is not submitted, tender will be out rightly rejected.,

6. If the prices of the contracted articles is/ are controlled by the Government, in no circumstances the payment will be higher than the controlled rate.
7. Tender will be regarded as constituting an offer open to acceptance in whole or in part at the discretion of the competent authority of the institute for a period of 180 days (6 months) valid from the date of opening of the tender by the committee.
8. The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply. In such a case, bid security of the supplier shall stand forfeited.
9. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged.
10. In case the tenderer on whom the supply order has been placed, fails to made supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Raipur) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
11. The Specification and quantity of the item needed is mentioned in Financial Bid but it is approximate detail and is subject to increase/decrease at the discretion of the competent authority of AIIMS, Raipur. The payment would be made for actual supply taken and no claim in this regard should be entertained.
12. Where the specifications are as per tenderer's range of product & tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as per given in **Annexure - I**.

13. It must be mentioned clearly whether tenderer is a manufacturer/sole distributor/sole agent for the items for which he is quoting.
- a. Manufacturer must add a certificate that item(s) is manufactured by them as per range of products
 - b. Sole Manufacturers must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
 - c. Authorized agents must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals in proforma given in attach duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.
14. The Tenderers should furnished a copy of S.T./C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected
15. The tenderers should submit along with the tender, a photostat copy of the last Income Tax return and copy of current valid income tax clearance certificate (IT CC) otherwise tender may be ignored
16. In case asked, tenderer must personally supply a sample/give the demonstration of the equipments/Instruments to the competent authority of the institute and in that case all the expenses will be borne by the supplier.
17. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender failing, which the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original failing which tender may be ignored.
18. Any failure or omission to carryout of the provisions of this supply by the supplier shall not give rise to any claim by supplier and purchaser one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any status and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether

declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure.

19. The Courts at Raipur/CG alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.
20. If at any time, any question, dispute or difference whatever shall arise between supplier and the institute (Purchaser) upon or in relation to or in connection with the agreement, either of the parties may give to the other notice in writing of the existence of such a question, dispute or difference and the same shall be referred to two arbitrators one to be nominated by the institute (Purchaser) and the other to be nominated by the supplier. Such a notice of the existence of any question dispute or difference in connection with the agreement shall be served by either party within 60 days of the beginning of such dispute failing which all Right sand claims under this Agreement shall be deemed to have been forfeited and absolutely barred. Before proceeding with the reference the arbitrators shall appoint/nominate an umpire. In the event of the arbitrators not agreeing in their award the Umpire Appointed by them shall enter upon the reference and his award shall be binding on the Parties. The venue of the arbitration shall be at Raipur, (Chhattisgarh, India). The arbitrators/Umpire shall give reasoned award.
21. The supplier should mention the compliance to the specification in the technical bid of the tender document failing this, the bid document will be disqualified.
22. Supply of equipment, goods and services should be completed within 6 weeks from the date of supply order unless otherwise specified in the supply order. Purchaser will place order by fax &/or e-mail &/or speed post
23. The Bidder shall provide on site warranty/guarantee of the equipment for the period of **five years from the date of installation**. Warranty will cover services, repairs, maintenance, replacement of spare parts, broken / damaged / worn out spare parts and other services free of cost during the whole warranty period of five years. The warranty shall also include "on call service" which should not exceed **24 hours from the time of lodging of complaint through e-mail**.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

Annexure-I

TECHNICAL SPECIFICATION FOR PEDIATRICS EQUIPMENTS

General Specifications:

1. The instruments quoted should be of high quality and ASTM F899 or of equivalent standard specifications for the material used
2. All the material /equipment should be European CE/ US FDA/ EN ISO Certified.
3. All the Electronic equipments should comply with Electrical safety conforms to standards for electrical safety IEC 60601-1.
4. The radiological equipment should be AERB Type Approved
5. All the equipment's power input should be 220- 240 V AC, 50Hz fitted with Indian plug.

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
1.	<u>Pediatric Mechanical Ventilator (2 No.)</u>	<p>A) General requirements:</p> <ol style="list-style-type: none"> 1) Should be able to ventilate patients with body weight from 400 grams to 5 Kg 2) Should have battery back-up for the ventilator with integrated re-chargeable battery for a minimum of 30 minutes operation. 3) Should have an integrated high resolution screen with color display of at least 10 inches screen size 4) Should have an integrated electronic blender for blending Air and Oxygen 5) Should have an imported integrated compressor 6) Should have US-FDA and / or CE certification for neonatal use 7) Should have device checking mechanism where it can determine and display the compliance and resistance of the system, determine leakage in the patient hose system, and checking of valves, gas supply system, flow sensors, etc. 8) Should have an automatic leak compensation facility that provides sensitive triggering even with changing ET-tube leaks <p>B) Ventilation modes required:</p> <ol style="list-style-type: none"> 1) Invasive ventilation: <ol style="list-style-type: none"> a) Pressure limited: SIMV, Assist Control/SIPPV, Pressure Support (PSV)

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>b) Should have volume targeting or volume assured or volume guarantee function in all pressure limited modes to ensure a preset tidal volume delivery by automatically varying the peak pressure or inspiratory time</p> <p>2) Non-invasive ventilation: CPAP and NIMV</p> <p>3) Should have apnea back-up facility with back up settings configured for neonates</p> <p>C) Waveforms and loops:</p> <p>1) Should be displayed on the integrated high resolution screen with color display of at least 10 inches screen size</p> <p>2) Scalar graphics – for pressure, volume and flow; scales should be user selectable and adjustable for neonatal settings</p> <p>3) Loop graphics – for pressure-volume, flow-volume, pressure-flow combinations; scales should be user selectable and adjustable for neonatal settings</p> <p>4) Should have freezing and measuring facility for Loops and curves</p> <p>5) Facility of movable cursor to read numeric values at any of point on the loop where the cursor is kept</p> <p>6) Should have adjustable inspiratory flow patterns from square wave, sinusoidal, and decelerating wave</p> <p>D) Ventilator parameters and settings:</p> <p>1) Should have knobs/keys for setting following parameters - Peak pressure, positive end expiratory pressure (PEEP), ventilator rate, inspiratory and expiratory time, oxygen concentration (in 1 % increments or decrements), and tidal volume</p> <p>2) Should be able to monitor and display the following parameters: Peak pressure, PEEP, mean airway pressure (MAP), Respiratory rate, FiO₂, Minute Volume, Tidal Volume (Inspired and expired, Leak %), Resistance, Compliance, Amplitude, Frequency</p> <p>3) Should have the following settings and ranges:</p> <p>a) Inspiration Time: 0.1 – 3 sec</p> <p>b) Expiration Time: 0.1 – 30 sec</p> <p>c) Respiratory rate up to 150 breaths per minute in conventional modes; 8-12 Hz in HFO mode</p> <p>d) Flow: Preset patterns – square, sinusoidal, decelerating</p> <p>e) PEEP: 0 – 30 mbar/ cmH₂O; MAP 8-30 cmH₂O in HFO mode</p>

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>f) Inspiratory Pressure: 5 – 60 mbar/cmH₂O</p> <p>g) Tidal Volume: 2 – 30 ml</p> <p>h) Proximal flow trigger facility with a trigger sensitivity of at least 0.2L/minute</p> <p>i) Oxygen concentration (FiO₂): 21% – 100%</p> <p>E) Display:</p> <ol style="list-style-type: none"> 1) Inspiratory time 2) Expiratory time 3) I: E ratio 4) Ventilator rate/Frequency 5) Mean airway pressure 6) Amplitude 7) Inspired oxygen concentration 8) Tidal volume and minute ventilation 9) Trends of set and measured parameters with a trend memory of at least 24 hours 10) Leak percentage 11) Display of silenced alarms <p>F) Alarm limits: Should have visual as well as audible alarm with user adjustable alarm levels with text message for:</p> <ol style="list-style-type: none"> 1) Power failure 2) Circuit disconnection 3) Tube obstructed 4) Minute Volume 5) Tidal Volume 6) Peak pressure 7) PEEP 8) Mean airway pressure 9) Patient disconnection 10) Gas failure 11) Low and high FiO₂ 12) Should have the facility to suspend the oxygen alarm indefinitely when oxygen cell is depleted or defective <p>G) Power supply: 220-240 V and 50-60 MHz</p> <p>H) Miscellaneous:</p> <ol style="list-style-type: none"> 1) Complete unit should be mounted on a sturdy pedestal imported trolley with good quality castors for easy movement of the complete ventilator. At least two of the four wheels should be lockable. 2) Each unit should have a circuit hanger to support the patient circuit 3) Each unit should be supplied with a heated servo controlled humidifier

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>(either integrated or stand alone) of the latest model with temperature display for set as well as measured temperature, compatible with HFO mode and complete with all accessories to make it operational. The humidifier should have the following requirements:</p> <ol style="list-style-type: none"> Heater with flow resistance up to 1 cmH₂O /L/sec Temperature range: 28-39 deg. C Warm up time less than 15 minutes Temperature control accuracy: ± 2 deg. C Automatic audible and visual alarms for high and low temperatures Visual indicator for water level and digital display for temperatures Compatible with both reusable and disposable ventilator circuits <ol style="list-style-type: none"> Nebulizer: Should be in-built and inspiration synchronized and preferably volume compensated with a time-programmable flow mechanism to activate nebulizer Manual oxygen key while suction; user adjustable oxygen concentration delivery while this manual mode is operated Should have an adjustable mechanical relief valve for excess pressure Should be able to be connected to central air line via an external compressor so that the compressor automatically switches on when air pressure in the central line drops below the recommended level Each unit should come with one set of standard Oxygen and Air hoses with hose connectors The firm should agree for periodic regular replacement of oxygen cells, compressor filters and ventilator filters during warranty and CAMC as per requirement. <ul style="list-style-type: none"> Quotation must include a compliance statement and in addition, each of the above points is marked in the technical brochure. Points not covered in the brochure must be specifically addressed in a separate certificate. <p>I) Consumable Accessories (<u>per ventilator per year</u> to be supplied on an annual basis during comprehensive warranty as well as CAMC):</p> <ol style="list-style-type: none"> Autoclavable reusable high quality pediatric specific low compliance heated ventilator circuits – 3 nos. Heater wires for ventilator circuits (wherever applicable) – 2 nos. Guide wire for insertion of heater wires (wherever applicable) – 1 no. External type flow sensors for neonatal use (if the ventilator is having one): its number should be calculated for one year based on its validity. In case of standalone humidifiers: 2 sets each of temperature probes, reusable humidifier chambers, heater wire adaptors for reusable circuits,

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>and heater wire adaptors for disposable circuits with each humidifier</p> <p>6) In case of integrated humidifiers: One each of temperature sensors and reusable humidifier chambers with each ventilator</p> <p>7) Nebulization kits / cartridges with all accessories – 5 nos.</p> <p>8) Neonatal test lung – 1 no.</p> <p>9) Air filters (both inspiratory and expiratory – wherever applicable) – 2 each in case of reusable type (OR) 8 each in case of disposable type</p> <p>Prices of the above consumable accessories should be quoted separately, which will be fixed for the duration of comprehensive warranty and CAMC (i.e., for 10 years)</p> <p>Manuals: One set of operator & service manuals with each monitor</p> <ul style="list-style-type: none"> • Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session. • FDA (USA) or CE certificate must be enclosed and must be approved for neonatal use • Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee. The ventilator with all the accessories has to be left in the unit for demonstration on real patients for at least 7 days. <p>Warranty and CAMC:</p> <ul style="list-style-type: none"> • Comprehensive warranty period: 5 years after satisfactory installation and CMC for 5 years after comprehensive warranty • Availability of spares for at least 10 years after date of installation • Comprehensive warranty and CAMC would include all parts-<u>plastic, metallic, glass, batteries and rubber</u> (without any exclusion) except the consumable accessories listed above. • Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares or standards required for that. • Should have online and telephonic registration of the complaints • Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints. • Down time of the equipment will start from the time of lodgement of first

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		<p>complaint.</p> <ul style="list-style-type: none"> The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CAMC. If machine is not made fully functional within 24 hours of the lodgement of complaint (even for single parameters), a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime). This will be valid even for holidays. No request in this regard will be entertained on the pretext of on availability of items with the supplier/company. <p>Quoting Price and Rates:</p> <ul style="list-style-type: none"> Rates should be quoted in full (indicating rates of items quoted, VAT, CST, Octroi, Insurance, Packing, freight excise) and separately. The total cost of accessory items along with the cost of machine will be considered for comparative purpose among companies. If the firm does not list any item in the tender, no payment will be made for the items required for complete operation of the machine. The firm will be obliged to supply any omitted items for the entire duration of warranty free of cost and no representation on this will be entertained. <p>If the company fails to quote for any item, it has to provide the item free of cost for three years.</p>
2.	<u>Modular</u> <u>Multiparameter</u> <u>Monitor (2 No.)</u>	<p>General:</p> <ul style="list-style-type: none"> Parameters – ECG, heart rate, respiratory rate, SpO2, NiBP, Dual IBP, EtCO2, Dual Temperature Should be Modular and capable of being connected to a central station The equipment should come with all standard accessories required to run all parameters. Waveform display: at least 6 channels at a time, user selectable Digital display: Heart rate, respiratory rate, oxygen saturation, temperature, Blood Pressure (systolic, diastolic, mean) System should be compatible with HIS. System should be US FDA approved for quality assurance. <p>1. Individual Monitors :</p> <ul style="list-style-type: none"> Wall-mountable and pivotable Medical grade, TFT Flat screen, slim size, at least 14" display Flexible display mode for various monitoring needs Should be knob control/ touch screen Viewing angle at least 90° Bigger font of numeric should also be available Should have standby mode for temporary leaving of patients. Adjustable contrast and brightness

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<ul style="list-style-type: none"> • Should have facility to record data for individual patients identifiable by their name and hospital registration number <p>2. Parameters monitored :</p> <p>The following modules complete with their accessories for each monitor:</p> <ul style="list-style-type: none"> • Heart rate • ECG • Respiration • Oxygen saturation • Temperature: 2 ports • Noninvasive Blood pressure • Invasive blood pressure 2 ports • EtCO₂ <p>3. Heart rate/ECG:</p> <ul style="list-style-type: none"> • At least 3-lead selectable ECG • Built in arrhythmia monitoring in all leads • Inbuilt ST segment analysis and arrhythmia detection facility • Display of 2 ECG leads simultaneously at a time • Heart rate range 20-250 bpm • Accuracy ± 5 bpm • Display sweep speeds 12.5, 25 mm/sec (user adjustable) • Averaging time: user selectable up to 8 seconds • ECG amplitude user adjustable • Defibrillator protected <p>4. Respiratory rate</p> <ul style="list-style-type: none"> • Measured by transthoracic impedance using the same ECG lead • Range 0 to 150 breaths/min • Accuracy ± 2 bpm • Display sweep speeds 6.25, 12.5 & 25 mm/sec (user adjustable) • Averaging time: user selectable up to 8 seconds • User selectable apnea alarm time <p>5. Oxygen Saturation</p> <ul style="list-style-type: none"> • Masimo-SET technology to take care of low perfusion states and motion artifacts • Dual wavelength LED pulse oximetry • Range 1 to 100% • SpO₂ accuracy : ± 2 % (70-100% range) • Averaging time: user selectable up to 8 seconds • Plethysmographic waveform display <p>6. Temperature</p> <ul style="list-style-type: none"> • 2-channels • Continuous digital display of two site temperatures • Range: 25-50 degree Celsius • Resolution: ± 0.1 degree Celsius

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<ul style="list-style-type: none"> • Accuracy: ± 0.1 degree Celsius • Should provide skin temperature probe and rectal temperature probe for every monitor <p>7. Noninvasive Blood pressure :</p> <ul style="list-style-type: none"> • Capable of measuring blood pressure including in neonates weighing 500 g • Microprocessor software with unit in mmHg • Oscillometric technique • Manual, auto and time limited stat modes • User selectable automatic time intervals • Display systolic, diastolic and mean BP • Blood pressure range <ul style="list-style-type: none"> Systolic : 30-250 mm Hg Diastolic : 10-100 mm Hg Mean: 20 – 100 mmHg • Pulse rate range : 20-250 bpm • Cuff : auto deflate with over pressure protection • Should automatically establish zero reference after each reading <p>8. Invasive Blood pressure</p> <ul style="list-style-type: none"> • At least 2 channels • Compatible with reusable and disposable pressure transducers • Transducer should allow continuous infusion into the artery through an infusion pump while pressure is simultaneously displayed • Input through pressure transducer that functions through a fluid filled catheter system • Unit: mmHg • Should allow continuous fluid infusion into the artery /vein through an infusion pump without any volume limitation • Compatible with arterial BP, CVP and intracranial pressure monitoring catheters with user selectable display names • Range 0-350 mmHg • Display resolution: ± 1 mmHg • Accuracy ± 1 mmHg • Digital waveform display • User selectable pressure channel display • Should be Compatible with ICP monitoring system • Name of manufacturer of compatible ICP monitoring system should be provided with documentary evidence. <p>9. EtCO₂</p> <ul style="list-style-type: none"> • Should provide 6 modules of mainstream for PICU and 8 modules of microstream for NICU • Warm up time: capnogram displayed in less than 15 sec • Measurement method: infrared spectrum • Unit: %, mmHg, kPa • CO₂ Accuracy: ± 2.0 mmHg

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<ul style="list-style-type: none"> • Measurement range: 0-150 mmHg • Resolution: 1 mmHg • Resp rate accuracy +/- 1 rpm • Range of resp rate measurement: 0-150/ min <p>10. User selectable alarms</p> <ul style="list-style-type: none"> • High and low heart rate • High and low respiratory rate • Apnea with adjustable time 5-20 seconds • High and low saturation • High and low SBP • High and low DBP • High and low MAP • Probe failure • Poor signal • Power failure • Audio & visual alarms with message <p>11. Trends</p> <ul style="list-style-type: none"> • Memory storage : at least 96 hours • Data display interval : not more than 20 sec • Display range : last ½ hour to 24 hours • Graphical and tabular format of display of variables <p>12. Power 220/240 V 50/60 Hz AC Rechargeable internal battery with a back up of at least 1 hr Safety class category A</p> <p>13. Manuals: One set of operator & service manuals with each monitor</p> <p>14. Comprehensive warranty period: 3 years and CMC for 5 years after warranty</p> <p>15. Availability of spares for at least 8 years after date of installation</p> <p>16. Comprehensive warranty and CAMC would include all parts-plastic, metallic, glass, batteries and rubber except the consumable accessories listed below against item no. 22. Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares, gases or standards required for that.</p> <p>17. Should have online and telephonic registration of the complaints</p> <p>18. Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints.</p> <p>19. Down time of the equipment will start from the time of lodgment of first complaint.</p> <p>20. If machine is not made fully functional within 24 hours of the lodgment of complaint, a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime).</p>

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		<p>21. Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session.</p> <p>22. Essential Accessories for 1 monitor The following quantities are to be supplied for every monitor with the initial order:</p> <p>ECG/Respiration</p> <ul style="list-style-type: none"> • ECG patient cable : 2 • Reusable ECG lead wires set (of 3 leads) : 2 sets <p>Oxygen saturation</p> <ul style="list-style-type: none"> • Patient extension cables: 2 • Reusable neonatal wrap around probes: 4 • Reusable pediatric clip/ finger probes: 4 <p>Temperature</p> <ul style="list-style-type: none"> • Reusable surface (skin) temperature probes: 2 • Reusable rectal temperature probes: 2 • <p>NIBP</p> <ul style="list-style-type: none"> • Patient extension cable – 2 • Disposable NIBP cuffs suitable for neonates, children and adults (<1000g, 1000-2000g, >2000g, pediatric, adolescent and adult): 5 no of each size <p>IBP</p> <ul style="list-style-type: none"> • Transducer connecting cables: 2 • Reusable pressure transducer: 5 • Disposable pressure dome kit with neonatal flush device: 10 <ul style="list-style-type: none"> • Quotation must include a compliance statement and in addition, each of the above points is marked in the technical brochure. Points not covered in the brochure must be specifically addressed in a separate certificate. <p>Manuals: One set of operator & service manuals with each monitor</p> <ul style="list-style-type: none"> • Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session. • FDA (USA) or CE certificate must be enclosed. • Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee. The ventilator with all the accessories has to be left in the unit for demonstration on real patients for at least 7 days. <p>Prices of the above consumable accessories should be quoted separately, which will be fixed for the duration of comprehensive warranty and CAMC (i.e., for 10 years)</p>

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>Warranty and CAMC:</p> <ul style="list-style-type: none"> Comprehensive warranty period: 5 years and CMC for 5 years after warranty Availability of spares for at least 10 years after date of installation Comprehensive warranty and CAMC would include all parts-<u>plastic, metallic, glass, batteries and rubber</u> (without any exclusion) except the consumable accessories listed above. Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares or standards required for that. Should have online and telephonic registration of the complaints Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints. Down time of the equipment will start from the time of lodgment of first complaint. The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CAMC. If machine is not made fully functional within 24 hours of the lodgement of complaint (even for single parameters), a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime). This will be valid even for holidays. No request in this regard will be entertained on the pretext of on availability of items with the supplier/company. <p>Quoting Price and Rates:</p> <ul style="list-style-type: none"> Rates should be quoted in full (indicating rates of items quoted, VAT, CST, Octroi, Insurance, Packing, freight excise) and separately. The total cost of accessory items along with the cost of machine will be considered for comparative purpose among companies. If the firm does not list any item in the tender, no payment will be made for the items required for complete operation of the machine. The firm will be obliged to supply any omitted items for the entire duration of warranty free of cost and no representation on this will be entertained. If the company fails to quote for any item, it has to provide the item free of cost for three years.
3.	<u>Multipara monitors for</u>	1. Basic parameters (ECG/heart rate, O2 saturation, NIBP & respiration) – in all

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
	Ward	<p>monitors</p> <p>2.General:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The equipment should come with all standard accessories required to run all parameters, suitable for all patient categories, ie. infants, children and adolescents. <input type="checkbox"/> Waveform display: at least 5 channels, user selectable. <input type="checkbox"/> Digital display: Heart rate, respiratory rate, oxygen saturation, Non Invasive Blood Pressure. <p>3. Individual Monitors :</p> <ul style="list-style-type: none"> <input type="checkbox"/> Wall mountable and pivotable <input type="checkbox"/> Medical grade, TFT Flat screen, slim size, at least 15” display <input type="checkbox"/> Screen resolution at least 1280x1024 pixels <input type="checkbox"/> Clear bright color display with large character size <input type="checkbox"/> Viewing angle at least 90o <input type="checkbox"/> Adjustable contrast and brightness <input type="checkbox"/> Ability to zoom any parameters <input type="checkbox"/> Ability to adjust individual alarms <input type="checkbox"/> Ability to change color of the trace by user <p>4. Parameters monitored :</p> <p>The following modules complete with their accessories:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Heart rate/ECG <input type="checkbox"/> Respiration <input type="checkbox"/> Oxygen saturation <input type="checkbox"/> Noninvasive Blood pressure <p>5. Heart rate/ECG:</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least 3-lead selectable ECG <input type="checkbox"/> Built in arrhythmia monitoring in all leads <input type="checkbox"/> Inbuilt ST segment analysis and arrhythmia detection facility <input type="checkbox"/> Display of 2 ECG leads simultaneously at a time <input type="checkbox"/> Heart rate range 30-300 bpm <input type="checkbox"/> Accuracy + 5 bpm <input type="checkbox"/> Display sweep speeds 12.5, 25 mm/sec (user adjustable) <input type="checkbox"/> Averaging time: user selectable up to 8 seconds <input type="checkbox"/> ECG amplitude user adjustable

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<input type="checkbox"/> Defibrillator protected 6. Respiratory rate <input type="checkbox"/> Measured by transthoracic impedance using the same ECG lead <input type="checkbox"/> Range 6 to 120 breaths/min <input type="checkbox"/> Accuracy + 2 bpm <input type="checkbox"/> Display sweep speeds 6.25, 12.5 & 25 mm/sec (user adjustable) <input type="checkbox"/> Averaging time: user selectable up to 8 seconds <input type="checkbox"/> User selectable apnea alarm time 7. Oxygen Saturation <input type="checkbox"/> Dual wavelength LED pulse oximetry <input type="checkbox"/> Range 1 to 100% <input type="checkbox"/> SpO2 accuracy : + 2 % (40-100% range) <input type="checkbox"/> Averaging time: user selectable up to 8 seconds <input type="checkbox"/> Plethysmographic waveform display 8. Noninvasive Blood pressure : <input type="checkbox"/> Capable of measuring blood pressure in infants, children and adolescents. <input type="checkbox"/> Microprocessor software with unit in mmHg <input type="checkbox"/> Oscillometric technique <input type="checkbox"/> Manual, auto and time limited stat modes <input type="checkbox"/> User selectable automatic time intervals <input type="checkbox"/> Display systolic, diastolic and mean BP <input type="checkbox"/> Blood pressure range Systolic : 30- 250 mm Hg Diastolic : 10-120 mm Hg Mean: 20 – 100 mmHg <input type="checkbox"/> Pulse rate range : 20-300 bpm <input type="checkbox"/> Cuff : auto deflate with over pressure protection <input type="checkbox"/> Should automatically establish zero reference after each reading 9. User selectable alarms <input type="checkbox"/> High and low heart rate <input type="checkbox"/> High and low respiratory rate <input type="checkbox"/> Apnea with adjustable time 5-20 seconds <input type="checkbox"/> High and low saturation

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<input type="checkbox"/> High and low SBP <input type="checkbox"/> High and low DBP <input type="checkbox"/> High and low MAP <input type="checkbox"/> Probe failure <input type="checkbox"/> Poor signal <input type="checkbox"/> Power failure <input type="checkbox"/> Audio & visual alarms with message 10. Trends <input type="checkbox"/> Memory storage : at least 24 hours <input type="checkbox"/> Data display interval : not more than 20 sec <input type="checkbox"/> Display range : last ½ hour to 24 hours <input type="checkbox"/> Graphical and tabular format of display of variables 11. Power 220/240 V 50/60 Hz AC Rechargeable internal battery with a back up of at least 1 h 12. Manuals : Operator & service manuals 13. Should be approved & certified by FDA (USA) and European CE 14. Manufacturer should have ISO certification for quality standards 15. Shall meet the safety requirements as per IEC 60601-2-27:1994—Medical electrical equipment—Part 2: Particular requirements for the safety of electrocardiographic monitoring equipment 16. Availability of consumables for at least 7 years after date of installation 17. Warranty and CMC would include the periodic calibration of all parameters strictly as per manufacturer's recommendations and any spares or standards required for that. 18. Onsite physical demonstration of the monitor with all the requested modules will be mandatory 19. Essential Accessories for five (05) monitors The following quantities are to be supplied with the initial order: ECG/Respiration <input type="checkbox"/> ECG patient cable : 20

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		<p>pressures</p> <p>Occlusion pressure must be displayed on screen</p> <p>Syringe near-empty alarm</p> <p>Low battery</p> <p>Internal malfunction</p> <p>Syringe wrongly fitted</p> <p>Power supply failure</p> <ul style="list-style-type: none"> • Priming rate & bolus rate: 5ml-150ml/hr 10ml-300ml/hr • Bolus administration: Manual or automatic • Flow rate range: 0.1 to 200ml/hr • Flow rate increments: 0.1ml/hr • Volumetric accuracy: $\pm 5\%$ over 1hr • Controls: On/off <ul style="list-style-type: none"> Start/Stop infusion Flow rate Volume Prime/bolus Alarm silence • Display: Flow rate in large LCD display <ul style="list-style-type: none"> Alarms AC mains indicator Battery on Occlusion pressure • Audible alarm: Sound intensity user-adjustable <ul style="list-style-type: none"> Rechargeable, maintenance free battery Life when fully charged: up to 10 hrs • Mains power supply: 220V, 50/60Hz <ul style="list-style-type: none"> Cable length: more than 2 m • Clamp: Pole clamp (adjustable to fit stands of all widths) <p>• Quotation must include a compliance statement and in addition, each of the above points is marked in the technical brochure. Points not covered in the brochure must be specifically addressed in a separate certificate.</p> <p>Manuals: One set of operator & service manuals with each monitor</p> <ul style="list-style-type: none"> • Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session.

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		<ul style="list-style-type: none"> • FDA (USA) or CE certificate must be enclosed. • Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee. The machine with all the accessories has to be left in the unit for demonstration on real patients for at least 7 days. <p>Warranty and CAMC:</p> <ul style="list-style-type: none"> • Comprehensive warranty period: 5 years after satisfactory installation and CMC for 5 years after comprehensive warranty • Availability of spares for at least 10 years after date of installation • Comprehensive warranty and CAMC would include all parts (<u>plastic, metallic, glass, batteries and rubber etc.</u>) (without any exclusion) except the consumable accessories. • Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares or standards required for that. • Should have online and telephonic registration of the complaints • Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints. • Down time of the equipment will start from the time of lodgement of first complaint. • The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CAMC. • If machine is not made fully functional within 24 hours of the lodgement of complaint (even for single parameters), a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime). • This will be valid even for holidays. • No request in this regard will be entertained on the pretext of on availability of items with the supplier/company. <p>Quoting Price and Rates:</p> <ul style="list-style-type: none"> • Rates should be quoted in full (indicating rates of items quoted, VAT, CST, Octroi, Insurance, Packing, freight excise) and separately. • The total cost of accessory items along with the cost of machine will be considered for comparative purpose among companies. • If the firm does not list any item in the tender, no payment will be made for the items required for complete operation of the

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>machine.</p> <ul style="list-style-type: none"> The firm will be obliged to supply any omitted items for the entire duration of warranty free of cost and no representation on this will be entertained. <p>If the company fails to quote for any item, it has to provide the item free of cost for the period of warranty.</p>
5.	Specification of Defibrillator with Trolley 1 No.	<ol style="list-style-type: none"> The unit should be portable with weight less than 8 kgs. Monitors and display: Minimum 6" x 4.5 High resolution color TFT/ EL display of ECG and HR ECG input via paddle as well as 3 lead patient cable. Defibrillator protector Diagnostic self test 5 lead ECG cable Lead I, II, III, avR, avL, avF and V. Output Energy: Selectable digitally upto 200 joules Synchronized cardioversion mode Charge time: less than 5 seconds Display of delivered energy Paddles: Anterior Pediatric paddles, Sterilizable should have paddle contact indicator for good response during defibrillation. "Defib on" message display on Monitor. The system should have event summary. The unit must have alarms for various arrhythmias. Visible and audible alarms for heart rate, arrhythmia and paddles & ECG cable disconnection. Recorder Standard Thermal or dot recorder Annotations: time, date, Defib Energy, Heart Rate, Event Marker ECG Size, Lead. Print out modes: Manual and automatic Power requirement: 220-240 volts, 50 Hz Unit should work on mains and should have in – built rechargeable battery with minimum of 2 hours of monitoring and 30 defibrillation charge Charging automatic when 'plugged in'. "low battery voltage" message display on monitor Compatible stainless steel trolley with wheels The model should have been installed in at least three government hospital during last 5 years. Firm should be able to give physical demonstration of the equipment, if requirement by the technical committee. <p>Warranty the equipment should be supplied with minimum guarantee/ warranty period of 24 months after successful installation. The supplier should also quote the CMC for 5 years beyond guarantee/ warranty.</p>
6.	<u>12-Channel ECG machine (1 No.)</u>	<ol style="list-style-type: none"> Should have simultaneous 12-Channel ECG recording with 12-lead simultaneous acquisition. Should have visual alarm for open lead Should have a digital display of 12 channel ECG Should have QWERTY Alphanumeric keyboard Should have Built-in ECG Parameters measurements and Interpretation

No.	Name of the Items required to be purchased	Specifications Required for the Item to be purchased
		<p>6. Should have Minimum 100 ECG store in inbuilt memory</p> <p>7. Should have 3 Operating modes : Automatic, Manual and Arrhythmia</p> <p>8. Should have a maintenance free digital thermal array printer</p> <p>9. Printer should work with standard thermal paper (should be available in Local Market)</p> <p>10. Printer should be able to print ECG report and should have on/off selection</p> <p>11. Should be compact and portable</p> <p>12. Should have ECG lead annotation facility</p> <p>13. Should have Minimum 2 hr battery back up</p> <p>14. Should supplied with 2 patient cable sets, 8 clip on electrodes, 12 chest electrode with silicon rubber bulb, 12 packets of recording paper, 1 bottle of jelly and 12 nos. reusable button type electrode</p> <p>15. Should operate on mains(220v-50Hz) and rechargeable battery (built in)</p> <p>16. Recording speed should be 25 mm/ sec and 50 mm/ sec.</p> <p>17. Input impedance should be greater than 12 M U</p> <p>18. Should have defibrillation protection.</p> <p>19. Should have Skin voltage tolerance +/- 600mV</p> <p>20. CMRR should be >90dB</p> <p>21. Should have Frequency response 0.3 Hz to 120 Hz.</p> <p>22. Should have a digital filter for AC and EMG.</p> <p>23. Valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report should be produced along with technical bid.</p> <ul style="list-style-type: none"> Quotation must include a compliance statement and in addition, each of the above points is marked in the technical brochure. Points not covered in the brochure must be specifically addressed in a separate certificate. <p>Manuals: One set of operator & service manuals with each monitor</p> <ul style="list-style-type: none"> Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session. FDA (USA) or CE certificate must be enclosed. Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee. The machine with all the accessories has to be left in the unit for demonstration on real patients for at least 7 days. <p>Warranty and CAMC:</p> <ul style="list-style-type: none"> Comprehensive warranty period: 5 years after satisfactory installation and CMC for 5 years after comprehensive warranty Availability of spares for at least 10 years after date of installation Comprehensive warranty and CAMC would include all parts (<u>plastic, metallic, glass, batteries and rubber etc.</u>) (without any exclusion) except the consumable accessories. Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares or standards required for that. Should have online and telephonic registration of the complaints

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		<ul style="list-style-type: none"> • Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints. • Down time of the equipment will start from the time of lodgement of first complaint. • The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CAMC. • If machine is not made fully functional within 24 hours of the lodgement of complaint (even for single parameters), a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime). • This will be valid even for holidays. • No request in this regard will be entertained on the pretext of on availability of items with the supplier/company. <p>Quoting Price and Rates:</p> <ul style="list-style-type: none"> • Rates should be quoted in full (indicating rates of items quoted, VAT, CST, Octroi, Insurance, Packing, freight excise) and separately. • The total cost of accessory items along with the cost of machine will be considered for comparative purpose among companies. • If the firm does not list any item in the tender, no payment will be made for the items required for complete operation of the machine. • The firm will be obliged to supply any omitted items for the entire duration of warranty free of cost and no representation on this will be entertained. <p>If the company fails to quote for any item, it has to provide the item free of cost for the period of warranty.</p>
7.	Items 7,8,9 & 10 <u>Technical Specifications</u>	<ol style="list-style-type: none"> 1. Self-inflating bag 2. Silicone made 3. Provided with closed ended reservoir with two valves 4. Patient valves pliable, well-sealed, have minimum dead space and no forward or backward leaks 5. The bag should have an oxygen inlet which fits into the standard oxygen tubing both from a cylinder and central supply 6. Face masks should be transparent, fit the patient outlet easily and have minimum dead space. 7. The system should withstand washing scrubbing and autoclaving procedures 8. Face masks: 3 sizes i.e. 00, 01, 02,; 3 set with each bag. 9. Should be provided with one set of oxygen tubing and reservoir with each self inflating bag.

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		10. Should have a safety valve to control maximum PIP 11. Option to control PEEP (optional) 12. European CE and US FDA approved and certificate should be provided. A maximum of 15% variation is allowed in the volumes of self inflating bags of different volumes as mentioned below: 1. 250 ml- 10 Nos. 2. 500 ml- 10 Nos. 3. 750 ml- 10 Nos. 4. 1500 ml- 05 Nos.																																																
8.	<u>Item 11,12: Technical Specifications for Laryngoscope with different size blades</u>	1. High quality corrosion resistant stainless steel blades and body 2. Light source firmly fixed with blade 3. Blades size 00,0 and 1,2,3 sets with each 4. Straight blade for neonatal use 5. Should withstand chemical sterilization and autoclaving 6. Should be having fiber optic cold light source . 7. should have Xenon light illumination of more then 50,000 lux. 8. Battery should be rechargeable for more then 2 Hr. Should be CE/FDA/BIS approve product.																																																
9.	<u>Resuscitation Trolley (2 No.)</u>	<table border="0"> <tr> <td>a) Essential parts</td><td>-</td><td>Cart & bassinet</td></tr> <tr> <td>alarms</td><td>-</td><td>Warming system with controls, probes & Examination light</td></tr> <tr> <td>b) Cart</td><td>-</td><td>Should swivel on 4 wheels of at least 4" diameter- with foot operated brakes on 2 front wheels</td></tr> <tr> <td>c) Dimensions</td><td></td><td></td></tr> <tr> <td> Height</td><td>-</td><td>180- 200 cms</td></tr> <tr> <td> Width</td><td>-</td><td>60-70 cms</td></tr> <tr> <td> Depth</td><td>-</td><td>100-120 cms</td></tr> <tr> <td> Working level</td><td>-</td><td>95-105 cm</td></tr> <tr> <td>d) Bassinet</td><td>-</td><td>Movable transparent acrylic side walls</td></tr> <tr> <td>e) Mattress</td><td></td><td></td></tr> <tr> <td> Width</td><td>-</td><td>55-60 cms</td></tr> <tr> <td> Length</td><td>-</td><td>65-75 cms</td></tr> <tr> <td> Thickness</td><td>-</td><td>3-5 cm</td></tr> <tr> <td> Material</td><td>-</td><td>Soft, easy to clean, radiolucent</td></tr> <tr> <td>f) Bassinet tilt</td><td>-</td><td>Should allow tilt for Trendelenburg as well as reverse Trendelenburg position</td></tr> <tr> <td>g) Warming system</td><td></td><td></td></tr> </table>	a) Essential parts	-	Cart & bassinet	alarms	-	Warming system with controls, probes & Examination light	b) Cart	-	Should swivel on 4 wheels of at least 4" diameter- with foot operated brakes on 2 front wheels	c) Dimensions			Height	-	180- 200 cms	Width	-	60-70 cms	Depth	-	100-120 cms	Working level	-	95-105 cm	d) Bassinet	-	Movable transparent acrylic side walls	e) Mattress			Width	-	55-60 cms	Length	-	65-75 cms	Thickness	-	3-5 cm	Material	-	Soft, easy to clean, radiolucent	f) Bassinet tilt	-	Should allow tilt for Trendelenburg as well as reverse Trendelenburg position	g) Warming system		
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		<p>Modes</p> <p>h) Manual mode</p> <p>l) Skin mode</p> <p>Set point range</p> <p>Skin temp variability at temperature equilibrium</p> <p>j) Skin temperature display</p> <p>Accuracy</p> <p>Resolution</p> <p>k) Alarms</p> <p>Audiovisual alarms for</p> <p>k) Examination light center</p> <p>l) Apgar Timer</p> <p>m) Low pressure Suction unit</p> <p>n) Oxygen outlet</p> <p>o) Manual resuscitation unit</p> <p>p) Power requirements</p> <p>q) I.V. stand</p> <p>r) Monitor shelves</p> <p>s) Should have a clamp to keep one 10 litre cylinder of oxygen</p> <p>t) Should be provided with swivel utility trays under the bed.</p> <p>u) Should be provided with instrument tray.</p> <p>v) CPAP system</p>	<p>- Manual & skin</p> <p>- Adjustable in steps from 0 to 100%</p> <p>- 34 – 38 degrees C</p> <p>- ± 0.2 degrees C</p> <p>- ± 0.2 degrees C</p> <p>- 0.1 degree C</p> <p>Probe failure, Heater failure, High and low infant temperature Power failure Silence/reset switch</p> <p>- Illuminance 100 foot candles at mattress center</p> <p>- Timer with stopwatch facility Reset facility</p> <p>- Should allow regulating pressure up to 100 mm Hg</p> <p>- 1-10 lpm</p> <p>- With adjustable airway pressure</p> <p>- 220/240 V AC, 50/60 Hz,</p> <p>- Should be able to accommodate 2 fluid bottles</p> <p>- 2 in number</p> <p>-</p> <p>Flow driven With air-oxygen blender and FiO2 control With heated humidifier Airway pressure display 0-15 cm H2O With Bonnet, cap and nasal prongs (10 of each size) for babies 600 gm-4000 gms With 3 reusable circuits With 1 reusable flow generator</p>

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		<p>Reusable temperature probes (full set) : 10 nos/per equipment. Silicon neonatal resuscitation bags with mask set : 10 nos./per equipment</p> <p>Manuals: One set of operator & service manuals with each monitor</p> <ul style="list-style-type: none"> • Should be able to provide training of all healthcare personnel during first 1 month of installation in the group of 5 trainees per session. • FDA (USA) or CE certificate must be enclosed and must be approved for neonatal use • Onsite physical demonstration of the machine with all standard actual accessories of the same make which the firm intends to supply will be mandatory if demanded by the technical committee. The ventilator with all the accessories has to be left in the unit for demonstration on real patients for at least 7 days. <p>Warranty and CAMC:</p> <ul style="list-style-type: none"> • Comprehensive warranty period: 5 years after satisfactory installation and CMC for 5 years after comprehensive warranty • Availability of spares for at least 10 years after date of installation • Comprehensive warranty and CAMC would include all parts (<u>plastic, metallic, glass, batteries and rubber</u>) including temperature probes, extension cable, heater element, halogen bulb, nasal prongs, bonnet, cap, flow generator and CPAP circuit (without any exclusion) except the consumable accessories listed above. • Comprehensive warranty and CAMC would include periodic checking and periodic calibration of all parameters strictly as per manufacturer's recommendations (at least every 3 month) and any spares or standards required for that. • Should have online and telephonic registration of the complaints • Should have resident service engineer in Patna and should be available 24 x 7 to solve the complaints. • Down time of the equipment will start from the time of lodgement of first complaint. • The company must ensure that the machine remains FULLY functional all the time for the period of warranty and CAMC. • If machine is not made fully functional within 24 hours of the lodgement of complaint (even for single parameters), a standby machine of similar configuration must be provided. Failure to do so will invite an increase in the period of comprehensive warranty or CAMC by 7 times of the downtime period. (i.e. 7 days for every 1 day of downtime). • This will be valid even for holidays. • No request in this regard will be entertained on the pretext of on availability of items with the supplier/company. <p>Quoting Price and Rates:</p>

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MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM
(Clause 13 (c) of the tender)

To

The Administrative Officer,
All India Institute of Medical Sciences Raipur

Dear Sir,

TENDER: _____.

we, _____ who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (name and address of agents) to bid, negotiate and conclude the contract with you against Tender No. _____ for the above goods manufactured by us. No company or firm or individual other than Messrs. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

We hereby extend our full guarantee and warranty as per the conditions of tender for the goods offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name)
For and on behalf of Messrs. _____
(Name of manufacturers)/Principal