

Tender  
For  
Anesthesia Workstation

At

Rourkela Government Hospital, Rourkela

**Bid Reference No** : 444-27.04.2018/NHM\_RGH

**NIT Issue Date** : 28.04.2018

**Last Date of Submission** : 26.05.2018 at 05:00 PM

**Pre Bid Meeting** : 08.05.2018 at 11:00 AM

**Opening of Bid** : 07.06.2018 at 11:00 AM

**Rourkela Government Hospital, Rourkela**

Telefax: 0661-2400161/2400039,

email: [cmo.rgh.rourkela@gmail.com](mailto:cmo.rgh.rourkela@gmail.com)

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## **Supply, Installation and Commissioning of Anaesthesia Workstation**

Rourkela Govt. Hospital, Rourkela, Sundergarh an apex healthcare institute being established by Govt. of Odisha under aegis of Ministry of Health & Family Welfare, Government of Odisha, invites sealed tenders for supply & installation of the Anaesthesia Workstation at the institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

Quotation should be sealed and super-scribed with tender number and address to:

“Director, Rourkela Govt. Hospital, Rourkela, Sundergarh, Odisha, Pin-769004”.

The sealed quotations should reach the Institute, latest by 26.05.2018 at 05:00 PM and it will be opened on 07.06.2018 at 011:00 AM in the Office of the Director, RGH, Rourkela of the Institute in the presence of the bidder(s) or their authorized representative(s), who will present at the scheduled date and time.

### **Terms & Conditions:**

Supply, Installation and Commissioning of Anaesthesia Workstation

**1. Preparation and Submission of Tender:** The tender should be submitted in two parts i.e. Technical Bid and Financial Bid. The Technical Bid and the Financial Bid should be sealed by the bidder in two separate covers "**Technical Bid for Tender for Supply of (Anaesthesia Workstation)**" and "**Financial Bid for Tender for Supply of (Anaesthesia Workstation)**". Both Sealed Envelopes should be kept in a main/ bigger envelope super-scribed as "**Tender for Supply of (Anaesthesia Workstation)**"

**2. Earnest Money Deposit:**

An amount of Rupees Forty Thousand (Rs. 40,000/-) in favor of Rourkela Govt. Hospital Society payable at Rourkela.

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 will be rejected.

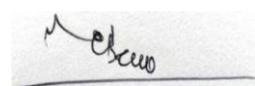
The firms who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industrial (SSI) are exempted to submit the EMD (copy of registration must be provide along with)

**3. Tender Fee:** Tender fee will be Non-refundable amount of two thousand one hundred (Rs. 2100/-) in favor of Rourkela Govt. Hospital Society payable at Rourkela.

**4. Rate:** Rate should be quoted in Indian Rupees (INR) on DOOR Delivery Basis at RGH, Rourkela, Inclusive of all the Charges, with break-ups as:

- Basic Cost.
- GST as applicable.
- Total Cost (F.O.R at RGH, Rourkela).

**5. Validity:** The quoted rates must be valid for a period for 365 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.

**6. Warranty / Guarantee:**

The Tenderers must quote for 5 years comprehensive warranty (Including all Spares, Accessories and Labour) 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 are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taking into account on basic price and post warranty CMC.

**7. Uptime guarantee:** The firm should provide uptime guarantee of 95%

**8. Downtime penalty Clause**

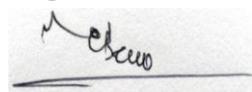
- a. During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handling 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.
- b. The principals or their authorized service providers are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

**9. Delivery & Installation:** All the goods ordered shall be delivered & installed within 30 days from the date of issue of purchase order. All the aspects of safe delivery, installation and commissioning shall be the exclusive responsibility of the supplier. The successful tenderer will also provide basic required training for supplied items.

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.

**10. 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 60 day beyond completion of all the contractual obligation, Including CMC period.

**11. Arbitration:** If any difference arises concerning this agreement, its interpretation on payment to the made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by the Secretary, Department of Legal Affairs. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated



under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1990 and the rule framed there under and in force shall be applicable to such proceedings.

**12. Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of RGH, Rourkela, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.

**13. Breach of Terms and Conditions:** In case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to cancel the work order/job without assigning any reason thereof and nothing will be payable by RGH, Rourkela in that event the security deposit shall also stands forfeited.

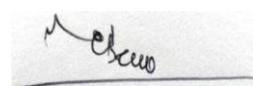
**14. Insolvency etc:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified RGH, Rourkela shall have the power to terminate the contract without any prior notice.

**15. Force Majeure:** If, at any time during the subsistence of this contract, the performance in whole or in part by either party of any obligation under this contract is prevented or delayed by reasons of any war or hostility, act of public enemy, civil commotion, sabotage, fire, floods, explosion, epidemics, quarantine restriction, strikers lockout or act of God (hereinafter referred to as events) provided notice of happening of any such eventuality is given by party to other within 21 days from the date of occurrence thereof, neither party shall be entitled to terminate this contract nor shall either party have any claim for damages against other in respect of such non-performance or delay in performance, and deliveries have been so resumed or not shall be final and conclusive. Further, that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may, at least option to terminate the contract.

#### **16. Liquidated Damages**

(i) The date of delivery of the store, stipulated in the acceptance of the tender should be deemed to be the essence of the contract and delivery must be completed not later than the dates specified therein. Extension will not be given except in exceptional circumstances. Should, however, deliveries be made after the expiry of contracted delivery period, without prior concurrence of the purchaser and be accepted by the consignee, such delivery will not deprive the purchaser of this right to recover liquidated damages under clause (ii) below.

(ii) Should the supplier fails to deliver the store or any consignment thereof within the period prescribed for delivery, the purchaser shall be entitled to recover 1 % of the value of delayed supply for a period up to 4 (four) weeks and thereafter at the rate of 10 % of the value of the delayed supply for another 4 (four) weeks of delay. In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated



damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

**17. Satisfactory Installation:**

Satisfactory installation / commissioning and handling over of the equipment mean the faultless functioning of the equipment for a minimum period of 30 days after satisfactory installation.

**18. Payment Term:**

- 90% 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 10% of the order value shall be released after the submission of the performance security.

19. 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.

20. Rourkela Govt. Hospital, Rourkela reserves the right to ask the tenderers for submitting the sample of the item for which rates have been quoted, Technically Qualified Bidders may be asked to submit samples along with their quoted items no. and their firm name without indicating any prices before opening of Financial Bid to RGH, Rourkelar for Inspection.

21. The quantity of item given in the tender is tentative, which may be increased or decreased as per the institute's requirement.

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

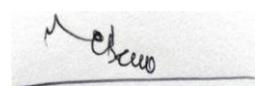
23. After due evaluation of the bid(s) Institute will award the contract to the lowest evaluated responsive tenderer

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

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

**26. 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 Rourkela, Sundergarh, 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 Rourkela. The decision of the Arbitrator shall be final and binding on both the parties.



- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

## Annexure-I

### Technical Specification

S.No	Item	Specifications	Qty.
1.	<b>Anaesthesia Work Station</b>	<p>➤ Compact three gas Anaesthesia workstation with an integrated Ventilator for infants/pediatric to adult patients, Airway Monitor and Anaesthesia Monitor with a single power switch for the Workstation.</p> <p>➤ The quoted model of Anaesthesia Workstation should confirm CE standards, EN 60601-2-13 (Requirement for safety and essential performance of anesthesia system) and US-FDA approved.</p> <p>➤ The quoted model of Anaesthesia Workstation should be from sole Manufacturers.</p> <p><b>Technical Details:</b></p> <ol style="list-style-type: none"> <li>1. Anaesthesia machine constructed from welded tubular / epoxy powder painted steel.</li> <li>2. Stainless steel top and at least 2 lockable drawers and electrical outlet to be provided.</li> <li>3. Should have large castor wheel with foot brake.</li> <li>4. The system should have an inbuilt at least 90 minutes battery backup for anaesthesia machine, ventilator, multipara monitor and Gas delivery system.</li> <li>5. The anesthesia system should have a integrated passive scavenging system with pressure relief valve.</li> <li>6. In case of electricity and battery failure, manual ventilation, gas and agent delivery should be possible.</li> <li>7. <b>Gas Delivery System:</b> <ol style="list-style-type: none"> <li>a. Should have pin index yokes for Oxygen &amp; Nitrous Oxide besides separate connection for central gas supply for oxygen, Nitrous Oxide and Air.</li> <li>b. The machine should have separate colour coded pressure gauges for cylinders &amp; central supply lines mounted on front of Anaesthesia machine for better visibility.</li> <li>c. The gas connection should be non-interchangeable.</li> <li>d. Having reservoir based audible and visual oxygen failure alarm of at least 7 seconds.</li> <li>e. Dual cascaded flow meter for oxygen,</li> </ol> </li> </ol>	

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nitrous oxide and single for compressed air, accurately calibrated with an accuracy of + 2.5 % and range of at least 10 ltr./min.

- f. Emergency oxygen flow of at least 35-70 ltr / min with non lockable push button to be provided.
- g. Having mechanical hypoxic guard with automatic cutoff of N<sub>2</sub>O. There should be Oxygen flow of at least 200 ml, even below total 500 ml fresh gas flow with 23% oxygen concentration.
- h. Oxygen flush at 30-70 L/min bypassing the vaporizer

**8. Flow Meter:**

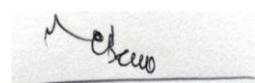
- a. Dual cascade type flow meter tubes for Oxygen & N<sub>2</sub>O, single tube for Air.
- b. Electronic setting and Digital display of Oxygen, Nitrous, Air.

**Vaporizer**

- a. Machine should have possibility to mount two quick mount type vaporizer for easy interchangeability.
- b. The Vaporizer design should be maintenance free and should not require calibration for life time.
- c. Vaporiser should have delivery range of 0 to 6 volume %.
- d. Having latest vaporizers for sevoflurane and Isoflurane; all should be temperature, pressure and flow compensated, with key filling arrangement and should be quick and mountable.
- e. Agent capacity should be minimum 225 ml of free volatile anesthetic agent.
- f. All sensor connection shall be internal to help prevent disconnection.

**10. Breathing System:**

- a. Should have fresh gas de-coupled, Fully autoclavable semi closed circle absorber system
- b. Should have adjustable pressure relief valve from 5 to 75 mbar
- c. Should have change over from Spontaneous to Bag ventilation with single step.
- d. The work station should be supplied with at least 2 sets of closed circuit, system for adult and pediatric patients each.
- e. The work station should be supplied with at least 10 sets of Bains circuit and 10 sets of Jackson Rees circuits with masks for Pediatric patients.
- f. Should have an external fresh gas outlet for



		<p>connecting Magill/ Bain's / Pediatric circuits.</p> <ul style="list-style-type: none"> <li>g. There should not be any collection of condensed water in breathing circuit.</li> <li>h. Should be integrally fitted with at least 1.5 litre capacity reversible canisters, double chamber type of CO<sub>2</sub> absorber system having provision to bypass.</li> <li>i. The firm should regularly supply CO<sub>2</sub> absorber soda lime for closed circuit system.</li> </ul> <p><b>11. Anesthesia Ventilator:</b></p> <ul style="list-style-type: none"> <li>a. Electronically controlled Pneumatically/ Electrically driven integrated anesthesia Ventilator, should not require change of bellows for adults and infants with integrated PEEP.</li> <li>b. Ventilator should automatically compensate for fresh gas by adjusting fresh gas flows for changes in fresh gas flow, small system leak changing lung compliance or compression losses.</li> <li>c. Facility to change I:E Ratio should be provided.</li> <li>d. Alarming setting should be available for low and high and tidal volume, minute volume airway pressure and apnea.</li> <li>e. Modes: Volume controlled, Pressure Controlled, Pressure Support /SIMV PS/ Manual/ Spontaneous.</li> <li>f. Tidal Volume : 20-1400 ml</li> <li>g. PEEP : 0-20 mbar</li> <li>h. Breathing Frequency : up to 60 BPM</li> <li>i. I E Ratio : 4:1 to 1:4</li> <li>j. Inspiratory pause : 0-50% of Ti.</li> <li>k. Frequency 1 to 60 1/min : E=2:1 to 1:3</li> <li>l. Should have Desflurane compensation.</li> <li>m. Should be able to ventilate with atmospheric air, in case of missing gases</li> </ul> <p><b>12. Airway Monitoring.</b></p> <ul style="list-style-type: none"> <li>a. Monitor should be with multi-parameter module with minimum 15 inches colour TFT display with 8 channels.</li> <li>b. The monitor should not require any, lengthy start-up procedure or calibration. It should be ready to monitor as soon as on / off switch is pressed.</li> <li>c. Should have 24 hours graphical and numerical trend with split screen facility of all parameters with at least 15 critical alarms summary.</li> <li>d. Should be able to monitor and display all parameters in single screen.</li> <li>e. Integrated monitor for electronic monitoring and</li> </ul>	
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		<p>display: Expiratory Tidal Volume, Expiratory Minute Volume, PEEP, Peak &amp; Mean and Plateau airway pressure, Frequency, Waveform display for Airway pressure, FiO<sub>2</sub> Monitoring.</p> <p>13. <b>Alarm Limits &amp; Alarms</b> Adjustable high/low limits with audio and visual alarms for: Tidal Volume, Minute Volume, Airway Pressure (including stenosis and disconnect), Insp Oxygen concentration, Audio power supply fail alarm, Fail to cycle warning(apnoea).</p> <p>14. <b>Patient Monitor:</b> This should be integrated, Screen size: Minimum 10 inch or more, it should be modular for easy up gradation, should be capable of monitoring the following parameters.</p> <p>a. <b>ECG:</b> Leads 3 to 5, Provision for 12 lead ECG along with print out facility, Protection from the interference of electrosurgical apparatus, Waveform- ECG or SpO<sub>2</sub> selectable, Arrhythmia Detection, Heart rate detection from ECG/Pulse Auto change.</p> <p>b. <b>SpO<sub>2</sub>:</b> Range: from 0 to 100% (accuracy: <math>\pm 2\%</math>), Sensitivity should be good, waveform: ECG or SpO<sub>2</sub> selectable/Auto change, Should be supplied with proper probes (<b>10 each</b>) for neonatal, Pediatric and adult patients.</p> <p>c. <b>NIBP:</b> Range: neonate/pediatric to adult, Modes: Auto/Manual Numeric display: Systolic, Diastolic, Mean. Should be supplied with proper size <b>5 cuffs</b> each for Neonatal, Pediatric, Adults (Arm and Thigh Cuffs) and Extra Large for obese patients.</p> <p>d. <b>IBP:</b> Provision of two simultaneous measurement of IBP. Display: Waveform and numeric, <b>50 universal transducer</b> sets to be supplied.</p> <p>e. <b>Temperature:</b> Dual Temperature Monitoring (Core and Skin) with sensor cable and probes.</p> <p>f. <b>ETCO<sub>2</sub>:</b> Infra Red Side Stream Analyzer for CO<sub>2</sub>, Capable of monitoring ETCO<sub>2</sub> of intubated patient, Display: Waveform and Digital. Range: 0 to 15 Vol% or 0 to 15kPa or 0 to 113 mmHg.</p> <p>g. <b>Anaesthetic Agent Monitoring:</b> To include automatic agent analysis for N<sub>2</sub>O, MAC value of Anaesthetic agents with 200 sampling lines and 50 water traps.</p> <p>h. <b>Anaesthesia Depth Monitoring:</b> Bispectral Index (BIS) / Entropy by just adding the Module: 50 sensors for adult patients.</p>	
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		<p>i. <b>Neuro-Muscular Transmission Monitoring (NMT)</b> with required accessories for 50 patients.</p> <p>j. Upgradable for Cardiac output monitoring.</p> <p><b>Alarms:</b> Asystole, Arrhythmia, Leads off, SpO<sub>2</sub> probe disconnection, BP Cuff occlusion, Apnea, ETCO<sub>2</sub> Alarm.</p> <p><b>General Conditions</b></p> <ol style="list-style-type: none"> <li>1) Should enclose compliance statement.</li> <li>2) Should have service facility in the same place as the respective institute.</li> <li>3) Must submit printed catalogue and technical data sheet to substantiate the offer.</li> <li>4) All imported components like machine monitor and ventilator should be from one manufacturer/principal.</li> <li>5) Any misinformation regarding the specification of the equipment offered would mean outright technical rejection.</li> <li>6) Demonstration of the equipment is mandatory.</li> <li>7) Universal Pipeline connections for all three gases.</li> <li>8) One complete set to be quoted with no alternative options.</li> <li>9) The warranty will be for the main equipment along with accessories from the date of satisfactory installation issued by user.</li> <li>10) Any misinformation regarding the specification of the equipment offered would mean outright technical rejection.</li> <li>11) Must submit Printed catalogue and technical data sheet to substantiate offer.</li> <li>12) Must submit User list and Satisfactory Performance report within last 5 years from major hospital.</li> </ol>	
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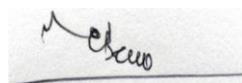
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## Annexure-II

### 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 nearby Odisha	
Whether the firm is a registered firm Yes/No (attached copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
Service Tax No. (enclose the attested copy of Service Tax Certificate)	
GST No. (enclose the attested copy of VAT Certificate)	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque of Earnest Money Deposit.	
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

### Format for Financial Bid

(To be submitted on the letterhead of the company / firm separately for each item)

A.

S.No	Name of Item	Quantity	Rate	GST/Taxes	Amount
1.					

B.

CMC Charges as applicable (excluding service Tax)	
Ist Year	
II <sup>nd</sup> Year	
III <sup>rd</sup> Year	
IV <sup>th</sup> Year	
V <sup>th</sup> Year	

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.

