

शासकीय वैद्यकीय महाविद्यालय व रुग्णालय, नागपूर

GOVERNMENT MEDICAL COLLEGE & HOSPITAL, NAGPUR

FAX NO. 0712-274448

Tel. No. Office:-2743588

No.Hosp/PS/E-Qt/Enq./

/2023

Dt.

16.5.2023

Quotation

UPC

To,

M/s.....

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Subject :- Submission of Quotation for the Supply of Instrument/Articles/Materials to the Govt. Medical College & Hospital, Nagpur.

The undersigned invited sealed quotations for the items mentioned below/on/reverse or as per enclosed statement for the use of the Govt. Medical College & Hospital, Nagpur on the following terms & conditions.

- 1) The prices quoted should be free delivery to College & Hospital premises for local dealers and F.O.R. Nagpur for outsiders.
- 2) The Price quoted by inclusive of all taxes, duties if payable like customs, excise, CST, ST, and GST. The break-up of the taxes should also be shown separately where necessary. The sales tax & registration number should be quoted in your letter. Exemption of taxes, if on A.F. Forms etc.be separately stated.
- 3) The serial number of the items should not be changed while quoting rates. You may drop the item if not interested.
- 4) Rates should be quoted strictly for the item specified in the list and for standard quality of goods. In case of alternate offer, the detailed specifications, name of manufacturer or make etc must invariably be stated. Specifications other than specified in the schedule may be liable for rejection on even though lowest.
- 5) The quotation submitted will be valid for a period of One (01) year only from the date of acceptance.
- 6) Delivery period should be stated specifically the like ready stock or two weeks or four weeks etc and should be firm and supply of stores if ordered should be made available within the stipulated period. Failures are liable for delist from further enquiries.
- 7) The quotation received after due date will not be accepted. The quotation should be submitted in sealed cover. Unsealed quotations which is not properly sealed will not be accepted. The last or receiving date of the quotation is Dt. 24 May 2023 up to 3.00 p.m.
- 8) Supply of stores should be made in one installment unless otherwise ordered place meal supply will not be accepted. Condition of advance payment through Bank, part payment etc. will not be accepted.
- 9) The price quoted is inclusive of all taxes, duties if payable like Customs/ Excise/CST/ST the break up of the taxes should also be shown separately where necessary. The sales tax and registration number should be quoted in your letter. Exemption of taxes on 'AF'/ Octroi exemption form etc be separately stated.

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- 10) Quotations if asked with samples if not accompanied with sample will be liable for rejection even if they are lowest. Samples should be sent with labels attached quoting our ref. no of enquiry and item no etc.
- 11) The Dean, Govt. Medical College & Hospital, Nagpur does not pledge himself to accept the lowest or any quotations and reserves to himself right of acceptance or rejection any of quotations which does not suit to his requirements.
- 12) Very Important :- In case you are not interested in quoting your rates; in reply to this enquiry a line in reply is must; failing are liable for delisting their names for further enquiries from our list and no further request in this matter will be entertained.
- 13) Literature, Instruction manual, working leaflet etc may also be sent with quotation.
- 14) Authorization certificate, Brochure, Catalogue, User List may also submit along with quotation is mandatory.
- 15) Technical Specifications - Compliance Chart with variation/deviation.
- 16) Bidder should apply in 2 Bid – TECHNICAL BID & COMMERCIAL BID also write clearly on envelop as TECHNICAL BID and COMMERCIAL BID in BOLD letter. Bid submitted separately in sealed cover with refer to our quotation No. in TOP of Envelop otherwise their quotation not to be accepted.
- a) First Bid (Technical Bid) should including Registration/Authorization Certificate. Sale Tax, IT Return Certificate, PAN card, GST no compliance chart as per specification. Brochure of the quotes material as per specification write clearly an envelope as TECHNICAL BID.
- b) Second Bid (Commercial Bid) Should include items rate including all taxes only.
- 17) While submitting the bills of good supplied, supplier must calculate unit price and final unit price should reflect the same rate as per order given by the Institute, GST & other taxes should not be calculated on total prices.
- 18) After opening the technical BID qualified Bidder will have to give demonstration of equipment as well as show their quoted items to HOD for technical approval as a Technical Committee otherwise Bidder names not to be included in commercial bid.


DEAN

Govt. Medical College & Hospital, Nagpur

Details as below: (As per specification attached)

Sr. No.	Name of the Items	Dept.	Price (Including GST)
1	Anesthesia Work Station	Anesthesia	

Specification of Anaesthesia Workstation

- The Anaesthesia workstation consisting of Anaesthesia machine with integrated Ventilator & patient monitor and Vaporizers should be from single manufacturer to ensure proper maintenance and back up services.
- The Machine Workstation should be of perfect workmanship with ABS structure of rust-free material.
- The machine should have dual tube twin cascading type 6 tube rotameter with backlit illumination & color-coded knobs for Oxygen, Nitrous Oxide and Air.
- Minimum flow rate of gases (O₂, N₂O & Air) should be as follows:
 - Oxygen Low Flow Tube 0.05-1 L/min
 - Oxygen High Flow Tube 1-10 L/min
 - N₂O Low flow Tube 0.05-1 L/min
 - N₂O High Flow Tube 1 -12 L/min
 - Air Low flow Tube 0.05-1 L/min
 - Air High Flow Tube 1-15 L/min
- Should supports Low-Flow Anaesthesia.
- Should have Auxiliary O₂ gas outlet for utilizing in other patients e.g. for administration of oxygen by face mask.
- Should have NIST Inlets for piped medical gases for O₂, N₂O and Air. In case of drop in piped gas pressure the pin index cylinders take over automatically.
- Should have Colour coded gas specific (pin indexed) yokes with sliding stainless steel clamping bars for easy handling. Holding 2 (Two) for O₂ and 1 (One) for N₂O
 - Semi-open, semi-closed- or closed-circuit system.
 - Should have Air/N₂O interlock facility for safety feature.
 - Oxygen Flush at table level to give 30-70L/min.
 - Should have at least two spacious drawers & one writing table.
 - Should have large roller bearing anti-static castors with front brakes & footrest
 - Tabletop for writing, keeping syringes, drugs, instruments etc.
 - Should have provision for document holder.
 - Wide Monitor shelf at eye level with securing provision for extra monitor.
 - Twin selectatec manifold for mounting at least two agent specific vaporizers with interlocking facility with work surface lighting.
- Facility to connect Bain Circuit with appropriate connector to anaesthesia machine at CGO.
- Should have port for Anaesthesia gas scavenging system.
- Should have single Bi-stable system ON / OFF switch for gases & power supply
- Should have monitor mounting side arm with basket for placing accessories
- Should have facility for RS232 Communication port.

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Dept. of Anesthesia
College, Nagpur

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Safety Features / Mechanisms

- Machine flow meters should have Hypoxic Guard; ORC to prevent delivery of a gas mixture having O₂ below 25%, irrespective of any flow rate of N₂O.
- It shall be possible to deliver Air with only basal flow oxygen independent of the above-mentioned hypoxic control.
- N₂O lock / N₂O cut off system – It should be impossible to start N₂O in absence of O₂ at the yoke and the N₂O falls immediately to zero once the pressure of oxygen falls
- Self-activated electro-pneumatic audio visual OFWD to activate an alarm when supply pressure of oxygen falls to 150 kPa-250 kPa

Circle Absorber

- Twin canister circle absorber of approx. 2 kg with bypass switch for online changing of circle system with quick release mechanism
- Inbuilt bag vent switch, APL Valve, Moisture drain valve
- Integrated airway manometer for measuring circuit pressure.
- Bag-Vent Switch with automatic changeover from Bag-Ventilator with single switch control.
- Should have built-in oxygen monitor sensor port.

Integrated Anaesthesia Ventilator

- The ventilator should be integrated in the machine & should be advanced, microprocessor controlled.
- Should have at least 10.1" Touch screen with high luminance & wide display.
- Should be suitable for Adult, Paediatric & Neonatal patients.
- The ventilator should have ventilation modes for VCV, PCV, SIMV-V, SIMV-P, A/C-P, A/C-V, PSV/SPONT, PLV & Manual modes of ventilation.
- The ventilator should have integrated Pressure, Volume & Oxygen monitoring.
- Should have minimum two waveforms & spirometry loops
- Should have the following specifications:

Tidal Volume	20 to 1600 ml
Rate (BPM)	1 to 100 bpm
I: E Ratio	4:1 to 1:8
PEEP	OFF, 1.0-30 cmH ₂ O
Compliance	<4ml/100Pa
Inspiratory Pause	0 – 50% of T _i

- Should have facility for audio visual alarms:
 - Airway Pressure (High & Low), Continuous Positive Airway Pressure, FiO₂ (High & Low), MV(High & Low), Frequency (High & Low), Apnea, O₂ failure, Battery Low, A/C Failure, Self-test failure alarm
- Should have built in Battery Backup of minimum 120 minutes.

Vaporisers

- Should be Selecta Tec type with interlocking facility.
- Agent specific Vaporisers for Sevoflurane should be provided along with the machine.
- Should have agent capacity of 250+/- 25ml
- Supplier should have service backup & calibration facility for vaporisers.

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Professor & Head
Dept. of Anesthesia
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Anesthesia Monitor

- Patient Monitor should have high resolution 12.1" integrated colour, LED Colour screen display. Should be able to display at least 8 wave forms.
- Should be able to monitor following vital sign monitoring for Adult, Paediatric and neonatal patients such as ECG, NIBP, Spo2, Respiration, Temperature & Etco2 Monitoring
- Should be able to monitor ECG: 3/5, Cascade ECG waveform with HR measurement, arrhythmia detection, ST segment analysis.
- Non-Invasive Blood Pressure (NIBP): Measurement and display of systolic, Diastolic, and mean pressure values on NIBP measurement through Oscillometric method for adult, child and neonate. Modes: Manual, STAT (Continuous 5 min. operation) and automatic selectable interval 2- 480 minutes.
- Respiration: Display of respiration waveform with respiration rate using impedance principle.
- Temperature: Should be able Monitor 2 temperature simultaneously. The unit selection should be possible.
- SpO2- Should have pulse rate from 20-300bpm and should be suitable for Adult, Pediatric & Neonate.
- Should be able to measure & display Perfusion Index.
- Should be upgradable to Invasive Blood pressure (upto 2 channel) with pulse pressure variation
- Should be able to measure Etco2 (Masimo) using side stream technique.
- The Graphical and tabular trends of 168 hours should be available.
- The monitor should have battery backup of upto 5 hours.
- Should have facility to connect USB
- Should have automatic pacemaker detection facility.
- The Weight of monitor should not be more than 5 kgs.
- Should have three priorities of alarm of all the parameters.
- Should have option of recording upto 3 waveforms on paper roll.
- *should have IBP for invasive monitoring of blood pressure, measurement.*

The Anaesthesia Workstation should be accompanied with following accessories.

- Reusable Close Circuit with Ext. hose Adult Autoclavable:1No.
- Transparent re-usable silicon face mask-1 No
- Bain Circuit –1 No.
- Breathing bag 2 Litre. – 1
- 5 Lead ECG cable - 1 No.
- Reusable Spo2 probes: 1 No.
- Nasopharyngeal/rectal/ skin Temperature probes- 1 no.
- Re usable adult cuff-1 No.
- Soda lime (indicator type: white to violet) 4.5 kg – Pack of

Certifications:

Supplier should be ISO9001 and ISO13485 certified.

- The Anaesthesia workstation & vaporizers should be BIS approved as per IS11378 standards; Certificate should be enclosed with valid offered model no. mentioned on the same.
- Patient Monitor Should be EU CE approved by 4 digit notified body number
- Electrical Safety conforms to standards for electrical safety IEC 60601-1:2005 + AMD1:2012, ISO 80601-2-13:2011 / AMD2:2018, EN ISO 80601-2-55:2018 & IEC 60601-1-2:2014.

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Professor & Head
Dept. of Anesthesia
Medical College, Nagpur

Y. N. Inkar
15-5-23
सहयोगी प्राध्यापक
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