

**TAMIL NADU MEDICAL SERVICES CORPORATION LIMITED**

**(A Government of Tamilnadu Undertaking)**

**417, PANTHEON ROAD, EGMORE, CHENNAI – 600 008.**

**ISO 9001:2008 Certified Organisation**

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**Ref.: No. RSP12/NS/TNRSP-II/TNMSC/ENGG/2019**

**30.04.2019**

**INVITATION FOR QUOTATIONS FOR SUPPLY OF  
GOODS UNDER SHOPPING PROCEDURES**

To

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\_\_\_\_\_

Dear Sirs,

Sub: INVITATION FOR QUOTATIONS FOR SUPPLY OF LAB AUTOMATIC BLOOD GAS ANALYZER, ABG MACHINE (HAND HELD ANALYZER) AND AUTOMATIC BIO-ANALYZER TO TRAUMA CARE CENTRE AT GOVT. HEADQUARTERS HOSPITAL, KANCHEEPURAM

1. You are invited to submit your most competitive quotation for the following goods:-

Brief Description of the Goods	Specifications	Quantity	Delivery Period	Place of Delivery	Installation /Demo Requirement if any
Lab Automatic Blood Gas Analyzer	Indicated at Annexure I	1 No.	60 days	Trauma Care Centre at Govt. Headquarters Hospital, Kancheepuram	Yes
ABG Machine (Hand Held Analyzer)		1 No.			
Automatic Bio-Analyzer		1 No.			

2. Government of India has received a financing from the World Bank towards the cost of the Tamil Nadu Road Safety Project -II and intends to apply part of the proceeds of this financing to eligible payments under the contract for which this invitation for quotations is issued.

### 3. **Bid Price**

- 3.1 The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- 3.2 All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
- 3.3 GST in connection with the sale shall be shown separately.
- 3.4 The rates quoted by the bidder shall include the cost of inland transportation and other incidentals for delivery of the goods to the final destination.
  - i. Unloading, safe storage and handling of consignment at site.
  - ii. Site assembly of the supplied goods if any at site, installation, testing and commissioning of the equipment.
  - iii. Maintenance and/or repairs of the supplied goods at each location during the warranty period including spares.
- 3.5 The bidder shall also quote the rates for maintenance and/or repair of the supplied equipments for a period of 5 years after the warranty period of 1 year under annual maintenance contract. The annual maintenance contract (AMC) will be comprehensive and will cover the cost of all spare parts required for replacement/repair of the equipment. The AMC shall be on regular basis to ensure minimum down time of the equipment, assuring 98% uptime.
- 3.6 The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.7 The Prices shall be quoted in Indian Rupees only.

- 4. a. Each bidder shall submit only one quotation. Bidder shall not contact other Bidders in matters relating to this Quotation.
- b. Earnest money deposit:- Each quotation should be submitted with an EMD of Rs.1,000/- by means of DD drawn in favour of “Tamilnadu Medical Services Corporation Limited, Chennai payable at Chennai.
- c. Bids received without EMD amount will be treated as non- responsive.
- d. The bidder should furnish the details of Bank name, Branch name, Account no., IFSC code and a copy of cancelled cheque leaf.
- e. The validity of the Demand Draft / Banker’s Cheque furnished for EMD should be not less than 15 days.

### 5. **Validity of Quotation**

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

## 6. **Evaluation of Quotations**

6.1 The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

(a) are properly signed ; and

(b) conform to the terms and conditions, and specifications.

6.2 The Quotations would be evaluated separately for each item.

6.3. Evaluation of the bid will take into account in addition to the bid price the cost of 5 years Comprehensive maintenance services after the warranty period of 1 year. 5 years Comprehensive maintenance service charges will be added to the bid price after discounting to the net present value at a discount rate of 8% per year. Bids without the CAMC rate will be treated as non responsive.

6.4. GST in connection with sale of goods shall not be taken into account in evaluation.

## 7. **Award of contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order.

7.3 You shall furnish performance security for 5% of contract value by means of demand draft drawn in favour of Managing Director Tamilnadu Medical Service Corporation Limited Payable at Chennai which will be returned after satisfactory completion of warranty period.

8. 100 % Payment shall be made immediately after delivery of the goods in good condition against receipt of certification from the consignee.

9. Minimum of one year warranty/ guarantee shall be applicable to the supplied goods.

10. You are requested to provide your offer latest by **15.30 hours on 17.05.2019**
11. Quotation will be opened at **16.00 Hrs on 17.05.2019** in the presence of bidders.
11. We look forward to receiving your quotations and thank you for your interest in this project.

**Sd/-  
General Manager (Equipment)**

**FORMAT OF QUOTATION \***

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words
1	Lab Automatic Blood Gas Analyzer	Indicated at Annexure I	1	No.			
2	ABG Machine (Hand Held Analyzer)		1	No.			
3	Automatic Bio-Analyzer		1	No.			
<b>TOTAL</b>							
<b>Applicable GST</b>							

**Gross Total Cost : Rs. ....**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. .... (amount in figures ) (Rs. .... amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of one year shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank's sanctions procedures) in competing for or in performing the Contract.

**Signature of Supplier**

**FORMAT OF QUOTATION FOR CAMC (LABOUR WITH SPARE)**

Sl. No.	Description of Goods	Qty.	Rate per unit (Rs.)					
			Unit	2 <sup>nd</sup> year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> year	6 <sup>th</sup> year
1.	Lab Automatic Blood Gas Analyzer	1	No.					
2.	ABG Machine (Hand Held Analyzer)	1	No.					
3.	Automatic Bio-Analyzer	1	No.					

*GST applicable shall be indicated separately*

**Signature of Supplier**

**Annexure –I**  
**TECHNICAL SPECIFICATION**

**1. SPECIFICATION FOR HAND HELD AUTOMATIC BLOOD GAS ANALYZER**

1. Blood gas analyser dry chemistry without cylinders:
2. Small easy to operate and portable system capable of measuring pH, pCO<sub>2</sub>, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, lactate, hematocrit, chloride and **glucose is optional**.
3. All the tests blood gases/ electrolytes/glucose/lactate should be performed simultaneously on a single use disposable cartridge
4. The system should be USFDA or European CE certified
5. Sample requirement-not more than **140µl**
6. The system should be capable of storing 2000 patient results
7. The single-use test cartridges should be self contained with all the reagents, sensors. Calibrating solutions required for running should be supplied along with test cartridge.
8. Deleted
9. System Should be provided along with a dedicated (Bluetooth/IR/In-built) thermal printer.
10. System should be capable of recharging during operation
11. System should use amperometric, potentiometric, conductimetric sensors for measurement
12. System should have an embedded and detachable barcode reader
13. System should be capable of bluetooth and wi-fi connectivity (**optional**)
14. Operation: AC adaptor or rechargeable li-ion battery
15. The system capable of performing at least 40 tests on one full charge
16. System should come along with a windows based personal digital assistant to control the entire system & printer
17. Blood gas analyser dry chemistry without cylinders:
18. Small easy to operate and portable system capable of measuring pH, pCO<sub>2</sub>, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, glucose, lactate, hematocrit, creatinine and chloride
19. All the tests blood gases/ electrolytes/glucose/lactate should be performed simultaneously on a single use disposable cartridge
20. The system should be USFDA and European CE certified
21. Sample requirement-not more than 100µl
22. The system should be capable of storing 2000 patient results

23. The single-use test cartridges should be self contained with all the reagents, sensors & calibrating solutions required for running.
24. Tests cartridges should be stored at room temperature without any requirement for refrigeration system
25. Should be provided along with a dedicated wireless (Bluetooth) thermal printer
26. System should be capable of recharging during operation
27. System should use amperometric, potentiometric, conductimetric sensors for measurement
28. System should have an embedded and detachable barcode reader
29. System should be capable of bluetooth and wi-fi connectivity
30. Operation: Ac adaptor or rechargeable Li-ion battery
31. The system capable of performing at least 40 tests on one full charge
32. System should come along with a windows based personal digital assistant to control the entire system & printer

## **2. SPECIFICATION FOR LAB AUTOMATIC BLOOD GAS ANALYZER:**

### **1. Function:**

- Blood Gas Analyzers are used to measure blood gases, electrolytes, Ph values and biochemical parameters of the blood.

### **2. Operational Requirements**

- Fully automatic, upgradeable, fast electrolyte combi analyzer.
- Demonstration of the system is a must.

### **3. Technical Specification**

- Essential Measured parameters: pH, pCO<sub>2</sub>, pO<sub>2</sub>, tHb, Barometric pressure, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Cl<sup>-</sup> and **lactate**. All these parameters should be measured simultaneously
- Calculated parameters should include Be, BE ecf, HCO<sub>3</sub><sup>-</sup>, Anion Gap, SaO<sub>2</sub> etc
- Sample Volume – less than **150ul**.
- Fast analysis time-less than 60sec
- Maintenance free electrodes with individual electrodes ON/OFF facility.
- Fully automatic liquid calibration of all parameters at user-defined intervals without the use of Gas calibrated reagents, external gases, tanks or regulators

- Continuous reagent level monitoring.
- Data display on well- illuminated, adequate size LCD color touch screen/LCD display.
- Data print out on built in graphic/thermal printer.
- **Inbuilt/Manual** Quality control facility that can be done by the end user..
- Automatic result processing, test ordering and transmission to the LIS/HIS system (laboratory Information System/Hospital Information System)
- Retrievable data memory should be available..
- USB ports for easy connection of e.g. flash drives, keyboards, etc
- The system should have suitable connectivity to hospital systems.

#### **4. System Configuration Accessories, Spares and consumables**

- Blood Gas Analyser-01
- Electrodes for all the parameters specified-01 set.

#### **5. Environmental factors:**

- The unit shall be capable of operating continuously in ambient temperature of 10-40°C and relative humidity of 15-90 %
- The unit shall be capable of being stored continuously in ambient temperature of 0-50° C and relative humidity of 15-90%
- Shall meet IEC -60601-1-:2001 (Or Equivalent BIS) General Requirement of Safety for Electromagnetic Compatibility.

#### **6. Power supply**

- Resettable over current breaker shall be fitted for protection.
- Power input: 220-240 V/ 50 Hz Ac Single phase or 380-400 V Ac 50 Hz.
- Three phase fitted with appropriate Indian plugs and sockets.
- UPS of suitable rating with minimum 30 minutes back up.

#### **7. Standards Safety and training**

- Should be FDA or CE approved product.
- Electrical safety conforms to standards for electrical safety IEC -60601/IS-13450.
- Manufacturer should have ISO certification for quality standards.
- Stand by blood gas cum electrolyte analyzer in case of breakdown.

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

### **8. Documentation:**

- User Manual and Service manual in English.
- List of important spare parts and accessories with their part number and costing.
- Certificate of calibration and inspection from factory.
- Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
- List of equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/technical manual.
- Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page / para number of original catalogue/ data sheet.
- Any point, if not substantiated with authenticated catalogue/manual, will not be considered.

### **3. SPECIFICATION FOR AUTOMATIC BIO ANALYZER**

1. System type – automated, discrete, random access, patient prioritized clinical chemistry analyser
2. Throughput – 640 testes per hour
3. Programmable parameters – unlimited photometric tests and calculations items, serum indices.
4. Analytical methods – 1 point, 2 point, Rate-A, rate-B
5. Photometer – monochromatic and biochromatic measurement 12 prefixed wave lengths from the photometric range of 340-750nm (340,376,415,450,480,505,546,570,600,660,700 & 750 nm)
6. OD range – 0-2.5 absorbance
7. Sample Disc – 80 positions, all positions open for samples, STAT samples, calibrators (standard), controls
8. Sample pipetting – 2-70 micro liter in steps of 0.2 micro liter

9. Probes – dedicated sample probe and 2 probes for reagents capacitance based liquid level sensing and VOD clot detection for sample probe
10. Sample container – can hold primary tubes and sample cups
11. Reagent Tray – 56 positions, 28 positions each for 20ml and 50 ml bottles
12. Reagent pipetting – 100-300 micro liter adjustable in micro liter step
13. Barcode reader – both for sample and reagent trays
14. Reaction tray – 72 permanent hard glass cuvettes maintained at 37 degree (+) or (-)2 degree
15. Reading volume – 180 micro liter
16. Quality control – levey Jennings quality control programs and twin plot QC rules
17. Light source – halogen lamp, 12 V/20W
18. Detector – static silicon photodiodes
19. Water consumption – upto 13 liters per hour
20. System interface – RS 232 bidirectional for PC interface Pentium IV or higher
21. Power requirement – AC 110v(+) or (-)10% Hz and 60(+) or (-)1 Hz or 55 AC 220v(+) or (-)10% Hz and 50(+) or (-)1 Hz (factory set) 800 VA excluding PC, printer monitor
22. Dimensions – Approximately 910mm(w) x 780 mm(D) x 1160 mm (H)
23. Weight – Approximately 200 Kg
24. Online UPS – 3 KVA

Note: Bidders shall furnish technical compliance statement for the model quoted , details of manufacturer including deviations if any. Technical catalogue /data sheet indicating model, make and technical parameters shall also be furnished in support of technical compliance statement without fail.