

**GOVT. OF ASSAM**  
**অসম চৰকাৰ**  
**DIRECTORATE OF HEALTH SERVICES, ASSAM**  
**HENGRABARI, GUWAHATI-36**

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**TENDER FOR THE SUPPLY OF Blood Gas Analyzer & Mobile Lab.**

**TENDER REFERENCE** : HSPB/2/Blood Gas & Mobile Lab/2013-14 /  
Dated /12/2013

**LAST DATE AND TIME FOR  
RECEIPT OF TENDER** : 6/1/2014 up to 1:00 PM

**TIME AND DATE OF OPENING  
OF TENDER** : 6/1/2014 at 2:00 PM

**PLACE OF OPENING OF TENDER** : Conference Room,  
Directorate of Health Services, Assam,  
Hengrabari, Guwahati-36.

**ADDRESS FOR COMMUNICATION** : Director of Health Services, Assam  
Hengrabari, Guwahati-36

**COST OF THE TENDER** : ₹ 1000/- only in the form of DD/BC  
in favour of DHS, Assam

Sealed Bids (two envelop system) are invited from the intending Reputed Manufacturers/Authorized Distributors for supply of Blood Gas Analyzer & Mobile Lab. under the Health & F.W. Department, Government of Assam for the year 2013-14.

1. Bid Schedule

NAME OF THE ITEM	TENDER FEE	EMD( BID SECURITY)	ELIGIBILITY
1. Blood Gas Analyzer 2. Mobile Lab.	₹1000/-	₹10.00 Lakhs	Reputed Manufactures/Authorized Distributors

2. The details are may be downloaded from the website : [www.nrhmassam.in](http://www.nrhmassam.in) by submitting demand draft of Rs. 1000.00 at the time of submitting tender documents.

3. It is the responsibility of the bidders to ensure that their bids are dropped in the tender box in the office of Directorate of Health Services, Assam, Hengrabari, Guwahati-36 by the closing date and time stipulated above.

4. The bid documents are not transferable.

**1. ELIGIBILITY CRITERIA –**

- a. Bidder shall be a manufacturer of medical equipment having requisite manufacturing facility.
- b. The bidder shall have market standing continuously for the past 3 years in supplying similar items with customers' satisfaction.
- c. Authorised dealer / distributors of a manufacturer or Indian Agent of an overseas vendor are also eligible to participate in the tender, provided they furnish the authorization for the items.
- d. Supply shall be effected directly by the bidder and not through any other agency

3. All bids must be accompanied by Earnest Money Deposit (EMD) as specified in the bid document and must be furnished with the bid.
4. Bids shall be opened in presence of bidders/ representatives who intend to attend, on the specified date and time.
5. At any time prior to the date of submission of bid, the authority inviting tender may, for any reason, whether at his own initiatives or in response to a clarification from a prospective bidder, modify the bidding documents by an amendment. All prospective bidders who have received the bidding document will be notified of the amendment in writing and the amendment shall be binding on them. In order to provide reasonable time to take the amendment into account in preparing the bid, the authority inviting tender, may at his discretion, extend the date and time for submission of bids.
6. The bid and all correspondence and documents shall be in the English language.
7. The tender document is not transferable.
8. The tender document shall be signed by the tenderer in all the pages with official seal.
9. Interested eligible bidders, if so desire, may obtain further information from the office of the authority inviting tender.

10. **TECHNICAL BID “COVER ‘A’”**

The bidder shall furnish along with the bid, the following, in a separate cover, hereinafter called **Cover ‘A’**

- a) All bids must be accompanied by **EARNEST MONEY DEPOSIT** of an amount for each schedule as shown in the list of items, in the form of Demand Draft/Bankers Cheque in favour of purchaser. EMD submitted in any other form or bids without EMD shall not be accepted. **It is to be noted that separate EMD shall be submitted for each schedule being quoted.**

The EMD of the successful bidder shall be retained till completion of the tender period but shall not carry any interest. If the successful bidder fails to execute the agreement and/ or fails to deposit the

performance security within the specified time, or withdraws his bid within the validity period of the bid, the EMD shall be forfeited.

The EMD of the unsuccessful bidders will be returned within 30 days after the finalization of the tender.

- b) Duly attested photocopies of valid manufacturing license for the products offered.
  - c) Declaration on details of manufacturing unit, installed capacity of the item quoted, testing facilities and nearest after sales service facility with details of technical personnel, along with non - conviction certificate/ declaration for the past 3 years.
  - d) Details of supplies made during the last 3 years with summary of Purchase Orders and performance certificates issued by clients in the specified format. Items supplied to Govt. institutions and to programs sponsored by WHO, UNICEF etc., if any for the last 3 years with copies of Purchase Order and Performance certificates are to be separately highlighted.
  - e) Annual Turn Over Statement for the last 3 financial years i.e., 2010 – 2011 , 2011-2012 & 2012-2013 along with statement of concurrent commitment in the specified format certified by the Auditor/ Chartered Accountant.
  - f) Current & Valid Sales Tax Clearance Certificate/ VAT Certificate as on 31.03.2013.
  - g) Authorization like Power of Attorney or Resolution of the Board for the officer of the company who have signed the tender document and the bid
  - h) The List of items quoted shall be furnished in **Annexure-I**. The list shall specifically indicate the make/ model no., manufacturer and brand name (if any) along with technical specifications. But this list **shall not indicate prices of the items.**
11. Warranty Maintenance: The medical equipment supplied shall be covered under comprehensive warranty for a period of 5 years from the date of commissioning and handing over and any maintenance or repair arising

during this period of 5 years including replacement of parts if any, shall be carried out by the supplier at his own cost without any cost liability on the purchaser.

- a) ANNUAL MAINTENANCE CONTRACT (AMC): The supplier shall quote the %age rates for the Comprehensive Annual Maintenance of the equipment supplied, after expiry of warranty period of 5 years, for a further period of 5 years, in the price bid. Price comparison shall include this 5 years comprehensive maintenance charges. **Price bids without AMC rates shall not be considered for evaluation.** The supplier shall also quote annual maintenance charges for next 5 years both on comprehensive basis (i.e. inclusive of spares) and for services only excluding spares.
- b) Authorization from Equipment Manufacturer: The successful bidder shall ensure that the manufacturers of the equipment being supplied shall furnish legally enforceable undertaking to the authority inviting tender in appropriate format assuring full guarantee/ warranty obligations valid for a period of 5 years from the date of commissioning of the supplied equipment. They shall also confirm that they shall provide Comprehensive Annual Maintenance Services for at least 5 years after expiry of warranty period of 5 years, in terms of Comprehensive Annual Maintenance Contract to be entered into between the supplier/ Manufacturer and purchaser.

For another 5 years beyond warranty and CMC period, the supplier shall quote separately rates for annual maintenance on comprehensive basis inclusive of spares and also only for services without spares

- c) Response Time for Breakdown Calls: Maintenance personnel shall attend to the breakdown within 72 hrs of reporting the fault.
- d) Preventive Maintenance: During the warranty period and AMC, in addition to attending break down calls, there shall be regular quarterly preventive maintenance visits.

- e) Operation & Maintenance Manuals: Two sets of operation & maintenance manuals along with circuit diagram and spare parts list of equipment shall be supplied.
- f) Installation, commissioning & Warranty Service: Supply, installation, commissioning and successful trial run of the equipment & subsequent, warranty / AMC servicing shall be done at site by the supplier themselves or their authorized agent.
- g) Training: If required, free demonstration, operation and maintenance training of the assigned personnel at site shall be provided.

12. All the above documents mentioned **along with Agreed Terms and Conditions as per Annexure-I** shall be submitted in separate sealed cover superscribed as "COVER 'A' ", TENDER FOR SUPPLY OF FOR ..... (TENDER NO. \_\_\_\_\_) DUE AT \_\_\_ HRS ON \_\_\_\_\_ & ADDRESSED TO .....

13. PRICE BID "COVER 'B'"

- a) Bid shall be type – written and correction, if any, in the bid shall invariably be attested with full signature by the bidder with date, failing which the bid shall be considered ineligible for evaluation. Corrections done with correction fluid shall also be duly attested.
- b) **The rate quoted per unit shall be the landed cost at destination, inclusive of packing, forwarding, Excise Duty, Sales Tax/VAT, Freight, Insurance, Installation / Commissioning etc and warranty maintenance for 5 years, showing the break – up of cost for taxes and duties.**
- c) The landed price per unit including 5 years warranty plus charges for 5 years comprehensive maintenance contract shall be the criteria for determining the L1 rate.
- d) Each page of the price bid shall be duly signed by the bidder with official seal.

14. Cover 'A' i.e. Technical Bids shall be opened at the office of the purchaser or at any other place earlier intimated, on the date and time specified in presence of the intending bidders or their authorized representatives.

15. Cover 'B' i.e. the Price Bids of the bidders who meet the eligibility criteria, evaluated based on the details furnished in Cover 'A' shall only be opened and the date and time of opening of Cover 'B' shall be intimated to the eligible/ short listed bidders

16. **TENDER EVALUATION**

Tenders will be evaluated with reference to various criteria and one of such criteria is that the rate per unit (landed price including 5 years warranty and 5 years comprehensive maintenance charges) for determining the L1 rate (Lowest rate). Conditional discounts shall not be taken into account for price comparison. However same shall be considered in case of placing order if the bidder happens to be L1.

17. **VALIDITY OF BIDS**

Bids shall remain valid for acceptance for a period of 30 days after opening of Technical bid i.e. Cover 'A'. Bids with shorter validity shall be rejected. Purchaser may solicit bidders' consent to an extension of bid Validity period. A bidder may refuse extension request without forfeiting the bid Security.

**The validity of tender of the successful bidder shall be at least 1 year from the date of finalization of the order and the successful bidder(s) are bound to supply the items at agreed rates during this period. This validity period may be further extended with mutual consent.**

18. **PERFORMANCE SECURITY DEPOSIT:**

The successful bidder, within 15 days of receipt of Purchase Order, shall be required to submit Performance Security Deposit of 10% of the order value in the form of Performance Bank Guarantee in favour of the purchaser valid for a period of 5 years from the date of completion of order. The Bank Guarantee shall be returned on completion of the Warranty period of the goods supplied.

However, if the supplier fails to execute the order or fails to perform the services as per contract, in addition to other penal actions, the Bank Guarantee shall be encashed & the amount forfeited.

**19. AGREEMENT**

The successful tenderer shall execute an agreement on non-judicial stamp paper of value of Rs.100/- (stamp duty to be paid by the tenderer) within 15 days from the date of the intimation from Tender Inviting Authority informing that his tender has been accepted.

**20. NON ASSIGNMENT**

The tenderer shall not, at any time, assign, sub-let or make over the contract or the benefit thereof or any part thereof to any person or persons what so ever.

**21. COMMUNICATION**

All notices or communications relating to or arising out of this agreement or any of the terms thereof shall be considered duly served on or given to the tenderer if delivered to him or left at his premises, places of business or abode.

**PAYMENT TERMS**

No advance payment shall be made. Payment for the supplied items shall be made after receipt of the fully functional items and completion of all codal formalities subject to submission of Bank Guarantee for Performance Security, relevant documents, test certificates, warranty certificates etc.

Payment for comprehensive Annual Maintenance Contract after 5 years of warranty period shall be made annually i.e. after 6<sup>th</sup> 7<sup>th</sup> years and so on at the agreed rates.

**22. PENALTY FOR DELAY IN DELIVERY**



- a) In case there is delay in delivery beyond the stipulated period as mentioned in delivery clause, there shall be reduction in price @ 0.5% of the value of delayed goods per week of delay or part thereof subject to a maximum of 10% of the total order value.
- b) Once the maximum price reduction is reached, termination of the contract may be considered.
- c) Non-performance of the contract provisions shall make the successful bidder liable to be disqualified to participate in any tender for the next 5 years, in addition to forfeiture of EMD and Bank Guarantee for Performance Security and other penal provisions.

### **23. FORCE MAJUERE**

The above condition of delivery period, price reduction & termination etc. are subject to force majeure conditions which are beyond the control of the supplier, do not involve fault or negligence of the supplier and are not anticipated. Such events may include but are not limited to riots, mutinies, war, fire, storm, tempest, flood, epidemics, or other exceptional causes like quarantine restrictions, freight embargoes. On specific request made by the tenderer the time period of supply may be extended by the purchaser at his discretion for such period as may be considered reasonable. However, the condition shall not include scarcity of raw materials, power cut, labour dispute, failure of sub-vendor and increase in cost of raw material.

### **24. FRAUD & CORRUPTION:**

The bidders, suppliers & contractors shall observe the highest standard of ethics during bidding and during performance of the contract. For the purposes of this provision, the following acts shall be considered as corrupt and / or fraudulent practices -

- a) "Corrupt Practice" means offering, giving, receiving, or soliciting directly or indirectly, of any thing of value to influence the action of an official in the procurement process or in contract execution.
- b) "Fraudulent Practice" means misrepresentation or omission of facts in order to execution of contract.
- c) "Collusive practice" means a scheme or arrangement between two or more bidders, with or without the knowledge of the purchaser, designed to establish bid prices at artificial, non-competitive level.
- d) "Coercive Practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process or in execution of a contract.

During the process of evaluation of a bid or proposal for award of a contract, if it is detected that a bidder directly or through agent has engaged in corrupt, fraudulent, collusive or coercive practice in competing for the contract in question, then a) the bid shall be rejected and b) declare the firm ineligible for a specific period or indefinitely to participate in a bidding process.

**25. LAWS GOVERNING THE CONTRACT & JURISDICTION**

The contract shall be governed by the laws in force in India. In the event of any dispute arising out of the tender such dispute would be subject to the contract shall be governed by the laws in force in India. In the event of any dispute arising out of the tender such dispute would be subject to the jurisdiction of the Civil Court within the city of Guwahati only.

**Name of the items with Technical Specifications :**

**Item No : 1 Blood Gas Analyzer**

**Specifications of Blood Gas Analyzer**

1. Small, easy to operate and portable system capable of measuring pH, P<sub>CO2</sub>, P<sub>O2</sub>, Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>++</sup>, Glucose, Lactate, Hematocrit.
2. OPERATION: AC adapter or battery - rechargeable, with the system capable of performing at least 40 tests on one full charge.
3. The system should be FDA certified and CE marked.
4. All the tests blood gases/electrolytes/glucose/lactate should be performed on a single test cartridge.
5. The system should be capable of storing 2000 patient results
6. Test cartridges should be self contained with all the reagents, electrodes/sensors required for running the test and should not use any other consumable apart from the cartridges.
7. Tests cartridges should be stored at room temperature without any requirement for refrigeration.
8. System should be provided along with a dedicated wireless (Bluetooth) Thermal Printer.
9. System should be capable of recharging during operation.
10. System should use Amperometric, Potentiometric, Conductimetric sensors for measurement.
11. TEST TIME less than 40 seconds after sample introduction.
12. System should have an EMBEDDED and detachable BARCODE READER
13. System should be capable of performing automatic THERMAL CONTROL to 37.0° with minimal variation.
14. System should be capable of BLUETOOTH and Wi-Fi connectivity.
15. System should come along with a Personal Digital Assistant ( Mobile Computer) with Microsoft Windows Mobile (Version 6.0 Premium) or higher Operating System and Host Application Software to run the system.

## **Item No : 2 Mobile Lab.**

### **SPECIFICATIONS OF Mobile Lab**

#### **PORTABLE BIOCHEMISTRY LABORATORY**

**(ISO-9001,ISO-13485:2003, CE Marked and FITT Certified)**

**Portable Automated Biochemistry Laboratory - Open System.**

**It is of True Random Access with Direct Reading System.**

PORTABLE COMPACT MOBILE LAB WITH BATTERY and optional SOLAR POWER BACK UP:  
LABORATORY IN SUITCASE ENCLOSING following items considered as 1 unit.

#### **Specifications of ACCURATE-ALL – Blood Analyzer**

- |   |   |   |
|---|---|---|
| a) Parameters<br>SGOT                             | : | Egfr, Glucose, Hb, Urea, Uric acid,<br>SGPT, Creatinine, Cholesterol, Total<br>Bilirubin, Direct Bilirubin, Total<br>Protein, Calcium, Chloride, Sodium,<br>Potassium, LDL, HDL, ALP, Albumin,<br>Triglyceride, Magnesium, Phosphorus . |
| b) Wave Length Range                              | : | 410 - 650 nm,   |
| c) Calibration                                    | : | Multi Point Calibration   |
| d) Measuring Modes                                | : | %Transmission, Absorbance   |
| e) Photometric Accuracy                           | : | Up to 3 decimal places.   |
| f) Optical System (Photo Detector)                | : | Silicon Photodiode  |
| g) Display  | : | Bright Green LCD display  |
| h) Keyboard                                       | : | Soft push-membrane type   |
| i) Have measurement range from 0.001 to 2.300 Abs | : |   |
| j) Light Source                                   | : | Patented Solid State Chip based<br>LED which has long life, no Lamps<br>are used thus reduced running<br>expenses and maintenance.  |

Very low power consumption.

requires less calibration

Light source is much more stable against

the lamp because fluctuation in voltage will not effect performance of the equipment.

- k) Filters : No Filters are used.
- l) It is microprocessor based and above all based on virtual filter technology which makes it more reliable and maintenance free for future.
- m) Sample System : 10mm path length Cuvette based
- n) Sample Volume Required : 5  $\mu$ L – The minimum known sample volume required,
- o) Printer Output Device : In built thermal printer available
- p) Power Supply : 12V DC  $\pm$ 10%, 50Hz.
- q) USB Port : Connectivity to Laptop
- r) Weight : 600 gm
- s) Dimensions (in mm) : 262 X 120 X 92
- t) No pump system required for flow cell which reduces complexity and delicacy in sample reading and sample analysis.
- u) ISO Certified, CE marked

### **1) CENTRIFUGATION UNIT**

- a) Fixed Angle Rotors : 6 x 1.5 ml
- b) Adapter : Adapter for 0.2 ml & 0.5 ml tubes
- c) Speed : 6000 RPM
- d) Safety Provision : Lid interlocking
- e) Slots to keep centrifuge tubes : 8 + adapter of 16
- f) Operation : Quick acceleration to full speed.
- g) **Power Supply** : 230V AC  $\pm$ 10%, 50Hz.

h) Dimension (in mm) : Diameter- 131.5 ,Height -128

## 2) INCUBATION UNIT

- a) Temperature Selection : Between 25°C (ambient temperature)  
to 45°C.
- b) Heating Material : Mica.
- c) Heating Control : PID Controller
- d) Sensor Calibration : Simple at the user end.
- e) Power supply : 230V AC  $\pm$ 10%, 50Hz.
- f) Dimensions : Diameter-155.5 , Height -80 mm
- g) Capacity : 25 samples incubation at one time

## 3) CUVETTES

- Sample Capacity : 2.5ml  
Quantity : 100

## 4) CUVETTE STAND

- Carrying Capacity : 25 X 4 cuvettes  
Stand Cap : 4, made of plastic  
Quantity : 4

## 5) MICROPIPETTES

- a) Measuring Volume Range : 5-50ul  
b) Measuring Volume Range : 100-1000ul

## 6) MICRO TIPS

- Microtips (sample capacity) : 5-50ul  
Quantity : 1000
- Macro tips (sample capacity) : 100-1000ul  
Quantity : 1000

## 7) MICRO TIP BOX : 2

- a) Micro Box : 100 insertions  
b) Macro Box : 100 insertions

**8) REAGENTS CONTAINERS**

Carrying capacity : 10 Units

**9) BLOOD CENTRIFUGE TUBE**

Sample capacity : 2ml

Quantity : 500

**10) OVERALL SPECIFICATIONS**

a) Power supply : 230V AC  $\pm$ 10%, 50Hz.

b) Optional Solar Power : 40 watt

c) Battery POWER BACK-UP : 5- Hours

d) Dimensions (in mm) : 685 X 470 X 285.

e) Power circuit is powered by AC supply-120 volt , DC /battery supply - 12 volt and Solar panel as well.

**11) PATIENT MANAGEMENT SOFTWARE Version II**

Direct data transfer from Analyzer to Laptop and Reports can be generated on organisation letter head and stored on laptop which can be used for future reference.

Operating system: Window XP,7,8

Platform:Java

Database: MS-Access 2007

Driver: PL-2303

USB-to-serial,Processor:Intel

Core,DualCore,Core2Duo,Atom,i3,i5.

**12) MINI LAPTOP :**

ASUS or HP or DELL or Acer : window based  
Intel Atom DC/2GB/320 GB/LAN/WI – FI/Bluetooth/Camera/10.1/WIN 7 starter

**13) CONNECTIVITY CABLE : 2**

USB PORT – Data Cable , Charging Cable.

**14) Washing System :** made of plastic with 25 nozzles with bottle turner .  
To be used in washing 25 cuvettes at one time

**15) CASE / MOBILE CARRYING PLATFORM**

It is a suitcase comprising of :

1. Unbreakable Top plate : made of imported plastic where other componets of mobile lab(centrifuge, incubator,cuvette stand,reagent stads) are framed.

2. Bottom plate : made of imported plastic where batteries and power circuit are framed

3. Bags placed in the upper lid of the suitcase to keep consumables.

### **16) RUCKSACK BAG**

It is a cover bag accommodating Mobile lab having 2 straps so as to carry it on shoulders.

Dimensions : 635 mm x 290 mm x 480mm

### **17) Open System**

Reagents from different sources can be utilized.