

TERMS OF REFERENCE

PROCUREMENT OF VARIOUS LABORATORY SUPPLIES AND REAGENTS WITH TIE-UP MACHINE
IB NO. 2022-12-27 (41)

LOT 1B – CLINICAL CHEMISTRY (ELECTROLYTES)

ITEM DESCRIPTION:

The Winning bidder shall provide the following:

1. One brand new machine & a backup machine using same reagent with the main.
2. 4 or more parameters in one sample running.
3. Easy to use simple and menu driven.
4. Samples: whole blood, Serum, plasma and urine.
5. Analyzes sample within 60 seconds -90 seconds.
6. Sample minimum volume of at least 60 ul.
7. Internal printer: prints patient results, calibration values, quality control data and flagging abnormal results.
8. Automatic probe wiping.
9. Automatic or on demand calibration.
10. Disposable electrodes with no maintenance / free- electrode maintenance.
11. The reagents and waste is conveniently contained in a single pack.

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1. The winning bidder shall provide:
 - 1.1 All the consumables: tri-level controls (high, normal and low), calibrators, cleaning solutions, electrodes, thermal paper and others for free.
 - 1.2 Material Safety Data Sheet (MSDS)
 - 1.3 Shall produce operating procedure manual & quick guide (soft and hard copy)
 - 1.4 Will provide yellow top with gel separator 100 trays (100 tubes/tray) and 20 trays of microtainer red top tubes.
 - 1.5 A 12 - 24 placer Centrifuge.
 - 1.6 2021 - 2022 National External Quality Assurance Report by Lung Center of the Philippines as to quality of results from two (2) different laboratories, using the machine.
3. Supplier must respond immediately to the needs of the end user particularly on the reagent for continuous operation of the laboratory services.
4. Must perform machine calibration every 6 months and provide Certificate of Calibration & Traceability.
5. The bidder will deliver the reagent at least 2 years' expiry from the date of delivery.
6. Must be connected to LIS. The winning bidder will shoulder the connectivity cost for LIS.
7. Preventive maintenance visit by the engineer / product specialist be made twice a month and as the need arise.
8. TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.

NOTE: IN CASE OF NONE DELIVERY OF REAGENTS (AND TROUBLE OF THE MACHINE) BUT WITH RECEIVED P.O THE SUPPLIER WILL SHOULDER THE PAYMENTS FOR SEND-OUT EXAMINATIONS. THE WINNING SUPPLIER MUST PRESENT A MOA WITH REFERRING LABORATORY (WITHIN SURIGAO CITY) FOR THIS PURPOSE.

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IB NO. 2022-12-27 (41)

LOT 2A – IMMUNOCHEMISTRY

ITEM DESCRIPTION

The Winning bidder shall provide:

1. A BRAND NEW Fully Automated Machine for free of use.

- Measurement Principle: Chemiluminescence (CLIA) (Magnetic particles) immunoassay technology. The unit cost asked is cost effective.
- Has Zero carryover to avoid contaminations. Has onboard refrigerated storage of up to 24 assays.
- Has sample probe obstruction detection like Bubbles and Blood Clots.
- Have sample interference measurement. Could test for criteria of hemolysis, icteric or lipemic for samples.
- Can process single sample and batch tests for all types of analysis for serum, plasma, urine and whole blood.
- Reagents: Barcoded reagents, no preparation, no mixing and reconstitution required.
- Has a built-in inventory of reagents and supplies. Traceability of reagents used and examinations done for proper inventory.
- Has on Board Maintenance.
- Can load a minimum of 30 samples per batch.
- Random access to STAT, with auto flushing, Calibration stability of 28 days average or auto dilution.
- Has high reportable result efficiency that cuts cost
- Capable of auto dilution analysis of abnormal results.
- CAN PRODUCE EXACT VALUE OF RESULTS BEYOND THE REFERENCE RANGE (High linearity limit)

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Machine to be ISO Certified. An ISO Certification must be attached to the bidding documents submitted. Note: ISO Certification of Company cannot replace the ISO Certification of the Machine.

- The supplier shall provide a cost per test computation per reagent on a Tie-Up mode inclusive of controls, calibrators and other running solutions.
- The bidder will deliver the reagent at least 2 years expiry from the date of delivery.
- TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.

1. All consumables such as control (3-levels), calibrators, cleaning solution, sample caps and other consumables for FREE.

2. With free set of Water System or must provide the water needed for the machine.

3. 80 trays of 4ml Yellow tap tubes with gel separator.

4. A 12 – 24 placer centrifuge.

5. A 2-door 22 cu.ft. refrigerator with freezer for control, calibrators and reagents.

6. 3 packs of yellow tips. (1000pcs/packs)

7. A complete computer set and interface system for reproduction and digital storage of results. This should be connected with the Hospital Laboratory Information System Computer Set with continuous ink printer Specification: Core Intel I5 to I7 8th Generation and Up 250 GB SSD, 500 GB – 1TB HDD, 8GB RAM

8. Must perform machine calibration every 6 months and provide Certificate of Calibration and Traceability.

9. Work instruction and/or operating manual in correct English (soft and hard copy).

10. Material Safety Data Sheet (MSDS)

11. Preventive maintenance visit by the engineer/product specialist shall be twice a month and as need arises.

12. Provides training on Machine Operation and trouble shooting.

13. The winning Bidder is responsible for LIS Connectivity payment and with the annual machine calibration.

14. Certificate of Calibration of Machine must be presented upon delivery.

15. Failure to comply with this approved Technical Specification and terms of reference is a ground for disqualification

NOTE: IN CASE OF NONE DELIVERY OF REAGENTS (AND TROUBLE OF OF THE MACHINE) BUT WITH RECEIVED P.O THE SUPPLIER WILL SHOULDER THE PAYMENTS FOR SEND-OUT EXAMINATIONS. THE WINNING SUPPLIER MUST PRESENT A MOA WITH REFERRING LABORATORY FOR THIS PURPOSE.

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PROCUREMENT OF VARIOUS LABORATORY SUPPLIES AND REAGENTS WITH TIE-UP MACHINE
IB NO. 2022-12-27 (41)

LOT 2B – IMMUNOSEROLOGY / SPECIAL TEST

TERMS OF REFERENCES:

The Winning bidder shall provide the following:

1. BRAND NEW, latest model, Fluorescence immunochromatographic analyzer **with Back-up Machine** using same reagent with the main.
2. Multiple Sample Processing Machine. Easy maintenance. User friendly machine.
3. Provides reliable and quantitative results of various kinds of analytes in human blood.
4. **All necessary consumables needed such as controls, calibrators, thermal paper and other consumables for FREE.**
5. Pipette tips necessary at least 5 packs
6. The winning bidder will provide 50 trays of yellow top tubes.
7. A complete computer set and interface system for reproduction and digital storage of results. This should be connected with the Hospital Laboratory Information System **Computer Set with continuous ink printer** Specification: Core Intel I5 to I7 8th Generation and Up; 250 GB SSD, 500 GB – 1TB HDD, 8GB RAM
8. The bidder will deliver the reagent at least 2 years expiry from the date of delivery.
9. Certificate of Calibration upon installation
10. Perform Calibration every six months and provide certificate of calibration and traceability
11. **TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.**

NOTE: IN CASE OF NONE DELIVERY OF REAGENTS (AND TROUBLE OF OF THE MACHINE) BUT WITH RECEIVED P.O THE SUPPLIER WILL SHOULD THE PAYMENTS FOR SEND-OUT EXAMINATIONS. THE WINNING SUPPLIER MUST PRESENT A MOA WITH REFERRING LABORATORY (within Surigao City) FOR THIS PURPOSE.

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LOT 3A – SEROLOGY

ITEM SPECIFICATION

Rapid Antigen Test (SARS-COV2)

- Certificate of RITM performance evaluation and performance report. The Performance Report must have a Sensitivity Report of $\geq 90\%$ and specificity report of 97% - 100%.
- Certificate of Product Registration from FDA
- The Reagent kit must have sensitivity to detect SARS COV2 at least 90% and Specificity to detect SARS COV2 Virus among symptomatic patients of at least 98%
- The Winning Supplier must delivery reagent at least 10 months expiry from the date of delivery.
- IN CASE OF NONE DELIVERY REAGENTS (AND TROUBLE OF THE MACHINE) BUT WITH RECEIVED P.O. THE SUPPLIER WILL SHOULDER THE PAYMENTS FOR SEND-OUT EXAMINATIONS. THE WINNING SUPPLIER MUST PRESENT A MOA WIT REFERRING LABORATORY FOR THIS PURPOSE (WITHIN SURIGAO CITY)

Hepatitis A Virus (IGM Specific)

- Sensitivity 95-100%; Specificity 97-100%
- Specimen : SERUM / PLASMA

Other Rapid Tes

- Sensitivity 90-100 % ; Specificity 97-100%

All test devices or kits shall include CONTROLS AND CERTIFICATE OF PRODUCT REGISTRATION

Terms of References:

The winning bidder will provide the following:

1. Certificate of Product Registration
2. Yellow Pipette tips – 5 packs
3. 40 packs of 4 ML red/yellow top tubes with clot activator and 5 trays red top microtainer tubes (100 pcs/box)
4. A small zip lock plastic (4" x 6") (100 pcs/pack) – 100 packs

The bidder will deliver the reagent at least 2 years expiry from the date of delivery.

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IB NO. 2022-12-27 (41)

LOT 3B - SEROLOGY - STI

ITEM DESCRIPTION

1. All test devices or kits shall include controls and certificate of product registration.
2. Specimen: Serum, plasma, whole blood
3. Sensitivity: 99-100% or 0.1 IU/ml
4. Specificity: 99-100%
5. Shall have control & test windows that are labeled as C, T1, T2, & other labeling as applicable.

The listed test devices should pass the criteria for technical evaluation by the Food and Drug Administration (FDA) regulation and National Reference Laboratory – San Lazaro Hospital/Sexually Transmitted Disease, AIDS, Central Cooperative Laboratories (NRL-SLH/SACCL) pursuant to DOH Department Order 393 – S. 2000.

The bidder will deliver the reagent at least 2 years expiry from the date of delivery.

The bidder will deliver shall provide the following for free:

1. 30 packs of 4 ml red/yellow top tubes with clot activator, (100pcs/box)
2. Yellow tips – 3 packs
3. Certificate of Product Registration
4. Contract Validity: upon fully consummated includes repeat order

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LOT 4 - CROSSMATCHING

TERMS OF REFERENCE

The Winning bidder shall provide the following:

1. The necessary machine such as centrifuge & incubator needed for the test as free of use.
2. Glass slides; plain slides. (72 slides/box). - 100 boxes.
3. Applicator stick, Plain non-sterile 6" wood stem. 1000 pieces/pkg., Disposable wooden applicator sticks with uniform cylindrical shape and smooth finish. - 6 boxes.
4. Yellow tips 5 packs.
5. Provide the necessary cross matching diluent for free.
6. Provide 5ml glass test tubes, 10,000 pieces
6. Provide Certificate of Product Registration.
7. The bidder will deliver the reagent at least 2 years expiry from the date of delivery.
8. Must perform machine calibration every 6 months and provide certificate of calibration and traceability
9. Must provide certificate of calibration upon installation
10. TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.

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LOT 7 COAGULATION

ITEM DESCRIPTION:

Winning bidder shall provide the following:

1. Fully automated, brand new machine capable of performing examinations for both Prothrombin Time (PT), Activated Plasma Thromboplastin Time (APTT) with the following features FOR FREE OF USE:
 - A. Prothrombin Time and Activated Plasma Thromboplastin Time (APTT) Reagent is of human source.
 - B. Random Access for STAT requests
 - C. With seconds, percent activity, and INR (SI unit) for Prothrombin Time
 - D. Capable of processing directly from extraction tube without manually transferring serum/plasma.
 - E. Able to run/process Fibrinogen test.
 - F. Reagents refrigerated on board.
 - G. Sample time flagging.
 - H. Auto Sample Handling.
 - I. Assays continues while loading reagents or any consumables.
 - J. Barcode Reading of Samples.
2. The Analyzer shall be equipped with programs for:
 - A. Daily Worklist (Printable)
 - B. Reagent Inventory Management System
 - C. Quality Control Chart (Levy -Jenning's graph)
3. A back – up machine for use for continuous operation which uses same reagent with the main machine
4. Material Safety Data Sheet
5. A complete Computer set with continuous printer and Interface for reproduction and digital storage of results and shall be connected with the Hospital Laboratory Information System.
6. The provider shall provide **free basic daily Controls (Normal and Pathologic), Calibrators, cleaning solutions, cuvettes/rotors, sample cups, labopettors/pipettes with appropriate measurements and other Consumables.**
7. Free use of a 24-placer centrifuge and stop watch or timer.
8. Provides Distilled water if required by the process.
9. Must provide Calibration Certificate and perform machine calibration every 6 months.
10. **25 trays of Evacuated 3.2% Citrated tube 2ml (100pcs/tray)**
11. The winning bidder will deliver the reagent at least 18 months to 2 years expiry from the date of delivery.
12. Work Instruction or Operator's Manual (soft and hard copy) (Quick Guide provided).
13. Preventive maintenance must be done every twice a month, and as the need arises. Repairs and other services including parts of the machine are free.
14. Provides Calibration Certificate upon installation of the machine.
15. Can produce exact value (high or abnormal) of results beyond the reference range
16. **TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.**

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LOT 8A - ARTERIAL BLOOD GAS

ITEM SPECIFICATION:

Winning Bidder shall provide the following:

1. A free use of machine that utilizes potentiometry and amperometry to determine the concentration of blood gases & blood chemistry.
2. A back up machine shall be provided which uses same reagent with the main machine.
3. Essential measured parameters: pH, pCO₂, pO₂. Derived Calculated Parameters includes SO₂, HCO₃, tCO₂, -BE(ecf), tHb.
4. Sample Volume – 150 uL or below
5. Auto Calibration
6. Provides Material Safety Data Sheet(MSDS) and Certificate of Calibration upon delivery.
7. Any basic consumables needed such as, calibrators, controls, thermal paper and others for FREE.
8. 4 vials of 10ml Heparin or Heparinized Syringe equivalent to number of tests requested.
9. 12 pcs Sharps Collector Container 3L capacity
10. Work Instruction or Operator's Manual (soft and Hard copy) (Quick Guide provided)
11. Must perform Calibration and provide Certificate of Calibration every 6 months.
12. Machine must be user friendly. Supplier must ensure that transfer of learning on the technicalities of their equipment is effectively done before leaving it to the end-user.
13. Preventive maintenance must be done every twice a month and as need arises
14. The bidder will deliver the reagent at least 18 months to 2 years expiry from the date of delivery
15. Provides certificate of calibration upon installation
16. TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.

NOTE: IN CASE OF NONE DELIVERY OF REAGENTS (AND TROUBLE OF THE MACHINE) BUT WITH RECEIVED P.O THE SUPPLIER WILL SHOULDER THE PAYMENTS FOR SEND-OUT EXAMINATIONS. THE WINNING SUPPLIER MUST PRESENT A MOA WITH REFERRING LABORATORY FOR THIS PURPOSE.

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LOT 8C - GLUCOSE & TROP I

ITEM SPECIFICATION:

Winning Bidder shall provide the following:

1. For Troponin I – Machine necessary for testing must be FREE of USE. Preventive maintenance must be done every twice a month and as the need arises. Consumables such as thermal paper and other necessary for testing must be provided for free. The winning supplier will provide a Certificate of Calibration upon delivery.
2. For Glucose Strips – must provide 1 glucometer for every 1000 tests and lancet equivalent to number of tests requested. The winning supplier will provide a Certificate of Calibration upon delivery.
3. Shall provide Certificate of Product Registration (CPR) – Both (Troponin and Glucose Strips)
4. Winning bidder shall provide certificate of trainings to all Med Techs.
5. TERMS OF CONTRACT: THE CONTRACT WILL END UPON FULLY CONSUMMATED INCLUDING THE REPEAT ORDER. A CONTRACT MAY EXTEND WITH VALID JUSTIFICATION AND NOT EXCEEDS SIX (6) MONTHS.

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BIOMEDICAL REFRIGERATOR & BIOSAFETY CABINET

Specifications:

➤ **Biomedical Refrigerator/ Ultra Low Freezer (-80°C)**

- Cabinet type Upright, Defrost mode manual, Noise Level(dB) 50, Refrigerant HC, Cooling type: Direct cooling, Temperature Range: - 40°C to -86°C, Controller: Microprocessor, Display: LED, Power supply (V/Hz):220-240/50, Power:900watts, Electrical current (A): 7.5, USB Interface, Temperature recorder, Sensor error, Capacity(L/Cu.Ft.):338/11.9, Stainless steel racks, CO2 Back up system, with cryo boxes
- Temperature Reading display
- Temperature error alarm

Terms and conditions:

- 1 year warranty
- Free 1 year preventive maintenance and calibration (twice a year visit from service engineer)
- Supplier must provide 5Kva online ups and 5Kva avr
- Free installation to Molecular Laboratory building. In case of damage the supplier shall shoulder the repair fee.
- Provides Certificate of calibration upon installation

➤ **Biomedical Refrigerator 4°C with freezer -20°C**

- Cabinet type upright, Cooling type Refrigerator:Forced air cooling;freezer: direct cooling, Defrost mode:Refrigerator:Auto, Freezer: Manual, Refrigerant: CFC-free, Noise level (dB(A)):43, Temperature Range (°C) Refrigerator: 2-8, freezer:-20 to -40, Controller microprocessor, Display LED, Power Supply (V/Hz):220-240/50, Power (W) 400, Electrical Current (A) 2.8, Capacity (L/Cu.Ft) Refrigerator: 185/6.5;Freezer: 97/3.4, sensor error, shelves/drawers: Ref:3/1;freezer:0/2Usb interface, temperature recorder
- Temperature Reading display
- Temperature error alarm

Terms and conditions:

- 1 year warranty
- Free 1 year preventive maintenance and calibration (twice a year visit from service engineer)
- Supplier must provide 5Kva online ups and 5Kva avr
- Free installation to Molecular Laboratory building. In case of damage the supplier shall shoulder the repair fee.
- Provide certificate of calibration upon installation

➤ **Biosafety Cabinet Class II Type A2**

- Inflow Velocity: 105 fpm (.53 m/s) or better, Downflow Velocity: 60 fpm (0.30 m/s) or better , Noise Level: <65 dba or better, Filter: ULPA filter 99.999% efficient, Particle retention: up to 0.1-0.3 microns,Light: Fluorescent lamp (at least 1200 Lux), Controller: Microprocessor controller with digital display,LCD display,Soft touch keys for blower, light and UV lamp with LED indicator, control panel should be at centered and angled-down location for reachability,with quick start mode and standby mode,with UV lamp and timer, with audible and visual alarms, work area opening: at least 200 mm,with anti-microbial powder coating, Work Zone and Side Walls: abrasion and corrosion resistant 304 grade, 1.5 mm 16-gauge stainless steel with 4B finish, with angled arm rest to prevent blockage of grille, with spill-containing single-piece work tray with large tray handles, with Stainless Steel Casters with standby stand.

Terms and conditions:

- 1 year warranty
- Free 1 year preventive maintenance and calibration (twice a year visit from service engineer)
- Supplier must provide 5Kva online ups and 5Kva avr
- Free installation to Molecular Laboratory building. In case of damage the supplier shall shoulder the repair fee.
- Provide calibration certificate upon installation

- Must perform machine calibration every 6 months (applicable to 3 equipment above)
- 2 year warranty (applicable to 3 equipment above)

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