	5. Front panel lockout.	
	6. Self-check carried out on powering on.	
	7. Pause infusion facility required.	
	8. Anti-bolus system to reduce pressure on sudden release of occlusion.	
	9. IV set:	
	• free-flow protection	
	• air trapping capability	
	• needleless IV connection.	
	10. "Dose error" reduction system (preferable).	
	11. Air bubble detector with single and cumulative functions (preferable).	
	12. Clearly visible optical alarms.	
	13. Acoustic alarms not less than 45dB.	
	14. Easy set up and operation.	
	15. Large easy to read display.	
	16. Real-time display.	
	17. Compatibility with standard infusion sets commonly distributed in the market (desirable at least by the leading brands).	
	18. Equipment provided "ready to use".	
	19. Continuous operation within specification in ambient temperature of at least 30-45°C	
	20. Any accessory or dedicated device necessary to the proper functioning and utilization of the equipment is included.	
	21. Shock-fall protection.	
	22. Monitored and displayed parameters (colour and graphic preferable)	
	• Flow.	
	• Pressure.	
	• Dose.	
	23. Alarms	

	• Audible alarm required with volume control.	
	• Momentary silence less than 2 min.	
	• Occlusion upstream.	
	• Occlusion downstream.	
	• Air in line.	
	• System malfunction.	
	• Set loaded improperly.	
	• Door open.	
	• Infusion complete.	
	• Loss of mains power.	
	• Low battery.	
	• Depleted battery (preferable).	
	• Clinical advisory messages	
	24. Accessories, reusable	
	• Clamp for mounting pump on IV stand.	
	• Clamp for external transportation (preferable) (if applicable).	
	25. Spare parts (included and mentioned in a disaggregated list)	
	• As per manufacturer.	
	• Include calibration software and hardware (kit).	
	• Include list of spare parts with their part numbers and costs.	
	26. Power supply (voltage, frequency and plug vary across the countries)	
	• Operates from AC mains power: 100-240 V~ /50-60 Hz.	
	• In-built rechargeable battery. Battery with operating time at least 4 hours at 25 mL/hr.	
	• Automatic switch from AC mains power mode to battery operating mode and vice versa.	
	• Total re-charging time not greater than 6 hours.	
	• Appropriate external device to protect the equipment against over-voltage and over-current line conditions (between plug	

	and socket).	
	• 12 V DC socket for recharging during outside transportation (preferable).	
	• Equipment must be connected to a reliable and continuous source of energy.	
	27. Documentation (included)	
	• Instruction for use; service manual and product information to be provided in English, at least.	
	• Certification of calibration.	
	• List of procedures for calibration and routine maintenance.	
	28. Primary packaging label	
	• Name and/or trademark of the manufacturer.	
	• Model or product reference.	
	• Information for particular storage conditions (temperature, pressure, light, humidity).	
	29. Regulatory approval/certification	
	• Free sales certificate (FSC) and certificate for exportation of medical device provided by the authority in manufacturing country.	
	• Proof of regulatory compliance, as appropriate, per the product's risk classification (e.g. Food and Drug Administration [FDA] and/or Conformité Européenne [CE])	
	• National local regulatory approval (of recipient country, as applicable).	
	30. Warranty	
	• Minimum 2 years.	
	• Avallability of accessories, consumables and spare parts for at least 5 years	
	• The company assures that the equipment offered is brand new and free from defects in materials and workmanship and therefore guarantees the hospital that it will work perfectly under normal use and condition. In the event that problems arise under normal use, the equipment shall service by the Company's Service personnel Free of Charge during the Warranty Period. However, the Free Service does not apply on instances where the defects are caused by improper use, unauthorized modification, and operation outside the product's specifications and therefore all expenses incurred therein shall be for the account of the hospital.	
	31. Product specialist/ biomedical team on-site training:	
	• The company will include training of the end-users 2-3 days or depend upon the request of the end-users until the product is	

	well known by the hospital staff, they will be trained by our product specialist and biomedical engineers for technical and product use after the installation of the equipment.	
	32. Biomedical Response Time	
	• 24 hours	
	33. Delivery Period	
	• Sixty to Ninety days upon receipt of a confirmed purchase Order from the hospital	
SUE22-01	**ECG MACHINE THREE (3) CHANNELS**	
	[ALL equipment and components should be original, branded (not clone or assembled) and brand new]	
	1. Features:	
	• Automatic ECG waveform and parameter measurement	
	• Switch Single Color TFT Display (Resolution: 320 x 240)	
	• Complete digital design, wave digital filter	
	• Automatic adjustment of baseline, amplification, and automatic lead	
	• 60,000	
	• High Resolution Thermal Printer, Synchronous Record Details of ECG Waveforms, name of leads, paper feed speeds gain, patients' information, and analysis reports, etc.	
	• Multi-language operation interface, Various Printout Format	
	• Built-in Li-ion Battery, Support Uninterrupted Working Up to 2Hours	
	• Thermal Recorder (80mm)	
	• Can store up to 150 Digital ECG Records	
	• Simultaneously 12 Leads Acquisition	
	• Wide range of options such as Selections for Rhythm Lead and Network Capability	
	ADDITIONAL REQUIREMENTS	
	- Comen CM 300 ECG (Main Unit)	
	- Patient Cable	
	- 4x Limb clamp Electrodes	
	- 6x chest Bulb electrodes	

	- 1 x Roll of Paper	
	- Integrated rechargeable battery	
	- Power cord	
	- Operational Manual	
	- 2 rolls ECG Paper	
	- 1 Day End Users Training	
	WARRANTY	
	• Current and Valid Certificate of Manufacturer's compliance with ISO 13485 and/or CE Certificate or its equivalent	
	• The supplier must provide applications training for users and maintenance personnel of the hospital	
	• Transportation to the site, delivery, installation, and testing expenses on the site (hospital/health facility) for the account of the supplier	
	• Certification that the supplier has the capability for the corrective and preventive maintenance of the unit.	
	• Commitment of the manufacturer of the unit that the warranty should not be affected with a change of distributor	
	• Certification to provide user's Manual in English Language	
	• Operations Manual 2 copies	
	• Service Manual 2 copies	
	• Bidder's certificate that parts shall be available at the authorized Philippine service center/s for a period of five (5) years after the warranty period.	
	• Warranty Certificate of One (1) year for parts and two (2) years for service, upon delivery, inspection, and acceptance	

Conformed by:

_____

Authorized Representative's
Signature over printed name

Date: _____

REPUBLIC OF THE PHILIPPINES
Department of Health
NATIONAL CENTER FOR MENTAL HEALTH
Nueve de Febrero Street, Mandaluyong City, Philippines
BIDS AND AWARDS COMMITTEE
Telephone No. 531-9001 loc. 242 Telefax No. 5318318 E-mail: bac@ncmh.gov.ph Website: www.ncmh.gov.ph

SECTION VII
Technical Specifications

ITB No. 027-2022

INSTRUCTION: Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a) (ii) and/or GCC Clause 2.1(a)(ii).

ITEM	SPECIFICATION	STATEMENT OF COMPLIANCE
VLE22-01	**REFRIGERATED CENTRIFUGE FOR BLOOD BAGS**	
	Specifications:	
	1. Floor-type, at least 4 buckets refrigerated centrifuge	
	2. Swing out rotor	
	3. Replaceable receptacle/bucket that can also hold conical tubes and test tubes	
	4. Pneumatic lid lift	
	5. Safety lock	
	6. Quiet operation	
	7. Controllable temperature range: -20° C to +40°C	
	8. Adjustable speed	
	9. Maximum speed: at least 4500 rpm	
	10. Large and easy to read display	
	11. Power Supply: 220-240v	
	12. Mechanical part should be of heavy-duty type	

	13. Equipment should be easy to maintain	
	Standard Accessories:	
	1. Automatic voltage regulator - 3000VA	
	Standard Requirements	
	1. A certification that the unit being offered must be brand new and not a discontinued model.	
	2. Delivery period- 90 calendar days.	
	3. Current and valid Certificate of Manufacturer's compliance with ISO and or CE certificate or its equivalent	
	4. Certification that the supplier has the capability for corrective and preventive maintenance of the unit.	
	5. Certification from the manufacturer authenticated by the Philippine consulate from the country of origin of the unit that the warranty should not be affected with a change of distributor.	
	6. Bidder's certificate that the parts shall be available at the authorized Philippine service center/s for a period of five (5) years after the warranty period.	
	7. Certification that the brand has been in the local market for at least five (5) years with at least two (2) installations.	
	8. Certification that the supplier will be responsible for the notification, transportation to the site, delivery, installation and testing on the site (hospital/health facility) and expenses for such will be on the account of the supplier	
VLE22-02	**PLASMA SEPARATOR**	
	Specifications:	
	1. Simple and quick operation	
	2. Semi-automatic press for plasma separation from centrifuged whole blood	
	3. With optical sensor, clamping unit and control electronics	
	4. With conventional mechanical plasma separators	
	5. Automatically clamps tubing when the first red cells appear in the tubing at the end of plasma transfer	
	6. RBC sensing sensitivity	
	7. With audible and visual alarm	
	8. With good reproducibility and easy to use	
	9. Power Supply: 220-240v	

	10. Mechanical part should be of heavy-duty type	
	11. Equipment should be easy to maintain	
	Standard Accessories:	
	1. User Manual	
	2. Jumper cable	
	3. power adaptor	
	Standard Requirements	
	1. A certification that the unit being offered must be brand new and not a discontinued model.	
	2. Delivery period- 90 calendar days.	
	3. Current and valid Certificate of Manufacturer's compliance with ISO and or CE certificate or its equivalent	
	4. Certification that the supplier has the capability for corrective and preventive maintenance of the unit.	
	5. Certification from the manufacturer authenticated by the Philippine consulate from the country of origin of the unit that the warranty should not be affected [with a change of distributor.	
	6. Bidder's certificate that the parts shall be available at the authorized Philippine service center/s for a period of five (5) years after the warranty period.	
	7. Certification that the brand has been in the local market for at least five (2) years with at least ten two (2) installations.	
	8. Certification that the supplier will be responsible for the notification, transportation to the site, delivery, installation and testing on the site (hospital/health facility) and expenses for such will be on the account of the supplier.	
VLE22-03	**TUBE SEALER**	
	Specifications:	
	1. Fixed and handheld sealing unit	
	2. Seals wide range of blood tubing - good for tubing diameter 2-6mm (1/4")	
	3. Fast sealing in one second	
	4. No warm up required	
	5. Makes seals with a notch at the center	
	6. Detachable head protector for sealing head cleaning	
	7. Power Supply: 220-240v	

	8. Mechanical part should be of heavy-duty type	
	9. Equipment should be easy to maintain	
	Standard Requirements	
	1. A certification that the unit being offered must be brand new and not a discontinued model.	
	2. Delivery period- 90 calendar days.	
	3. Current and valid Certificate of Manufacturer's compliance with ISO and or CE certificate or its equivalent	
	4. Certification that the supplier has the capability for corrective and preventive maintenance of the unit.	
	5. Certification from the manufacturer authenticated by the Philippine consulate from the country of origin of the unit that the warranty should not be affected with a change of distributor.	
	6. Bidder's certificate that the parts shall be available at the authorized Philippine service center/s for a period of five (5) years after the warranty period.	
	7. Certification that the brand has been in the local market for at least five (2) years with at least ten installations.	
	8. Certification that the supplier will be responsible for the notification, transportation to the site, delivery, installation and testing on the site (hospital/health facility) and expenses for such will be on the account of the supplier.	
VLE22-04	**LABORATORY INFORMATION SYSTEM- FOR SPECIAL LABORATORY SECTIONS**	
	Specifications:	
	1. Configurable User Interface	
	2. Must be fully integrated and compatible with the existing LIS	
	• Must utilize existing server	
	3. Licensed Database from a refutable international company for reliable Data security and Storage	
	4. Must have the following software/modules for the following sections: Microbiology, Blood Bank and Anatomic Pathology	
	5. Machine Connectivity Management	
	• Connection Type (TCP/IP and RS232)	
	• Instrument Identification & Mapping	
	• Long List of Available Machine Driver for Connectivity	
	6. Real-time Rerun/Repeat/Reflex Support	
	7. Non-Barcoded Sample ID Support	
	8. Target Carrier Label Generation (Barcoding)	

	9. Secondary Tube Label Generation (Specimen ID Handling)	
	10. Communication Trace (System, Communication and Error Logs)	
	11. Event Notifications	
	12. Reporting of Critical Events	
	13. Notification on Overview Screens for pending validation tests	
	14. Order Management	
	• Test Ordering	
	• Editing and Modification	
	• Additional Test and/or Cancellation	
	15. Patient Information Management	
	• Add Patient	
	• Edit/Modify Patient Information	
	16. Order Button (Easy select of test request)	
	17. Sample Management	
	• Supports sectional barcoding of samples	
	18. Reagent Inventory Management	
	• Add reagents and supplies	
	• Edit/Modify reagents and supplies stocks for monitoring	
	• Able to set critical point and with alarm system for notification	
	19. Accumulative Patient Result	
	• Viewing of Result History	
	• Supports Delta Checking	
	• Printing of Result Graphical Trending Analysis	
	20. Append Test Results with Comments and Error Flags	
	21. Technical & Medical Validation	
	•Validation Range (Reference, Normal Value)	

	• Panic Range	
	• Range based on Age bracket & Gender	
	• Medical Validation	
	• Option of entering comments	
	• Patient-based presentation of all results, including previous values	
	• Customizable Order Screen (definable menus)	
	• Color Coding for abnormal results	
	• Real-Time Report Printing	
	• User-definable Report Designing	
	• Statistics	
	• Basic Statistics such as number of tests	
	• Samples ordered per section	
	• Samples ordered by wards	
	• Samples ordered by clinician, etc.	
	• Remote Workstation (Intranet)	
	• Remote Workstation (via Internet connection)	
	• Supports Medical Mission with Real Time Database Transaction from the Server	
	22. Divide the patient order and result data by site	
	23. Ten (10) User Licenses	
	• Can be logged-in simultaneously	
	BACKUP SYSTEM / DISASTER RECOVERY	
	1. High Availability (Back Up)	
	2. Automatic Backing Up	
	3. Shadowing Backup System	
	4. Generate Back up copy of System Information	
	5. System Restore Functionality	

	6. Supports Newest Windows Operating system	
	• Windows Server 2016 (64-bit) or higher	
	HARDWARE TECHNICAL SPECIFICATIONS (WORKSTATIONS)	
	1. Desktop (6x)	
	• Processor: Intel Core i5 or higher	
	• Memory: 8GB RAM	
	• Storage: 500GB SSD or higher	
	• Ports: RS-232C and TCP/IP	
	• Operating System: Windows 10 or higher	
	• Peripherals: Barcode Scanner (3 units)	
	• Accessory: AVR 1000VA	
	2. Laptop (4 units)	
	• Processor: Intel Core i5 or higher	
	• Memory: 8GB RAM	
	• Storage: 500GB SSD or higher	
	• Operating System: Windows 10 or higher	
	• Microsoft Office 365 Offline (Lifetime)	
	3. Inkjet Printer (7 units) with continuous ink tank, scanner, & photocopier plus	
	4. Inkjet printer with wi-fi connection (2 units)	
	5. Barcode Printer for Blood Bags (with consumables)	
	6. Computer table (3 units)	
	BLOOD BANK	
	1. Blood Transfusion	
	• Supports Request Creation	
	• Manages Blood Product Preparation	
	2. Type of Blood	

	3. Quantity of Blood Product	
	4. Inventory Balance	
	• Result Entry	
	5. Group Antibody	
	6. Cross-Match (with Alerts)	
	7. Reflex Testing and Reporting	
	• Blood Product Dispensing with Automatic Inventory Updates	
	• Management Reporting Summary	
	8. Workload	
	9. Blood Requests	
	10. Antibody Screening and Identification	
	11. Cross - Match to Transfuse Ratio Summary Reporting	
	• Approve Screen Test Result	
	12. Supports Approve Pack Screening	
	13. Immune Test Report	
	• Pack Details Entry	
	14. Blood Pack Acceptance	
	15. Full Detail Inventory	
	• Management Reporting	
	16. Summary Reports by Donor Attributes	
	17. Inventory Management	
	• Pack Registration for Blood Product Details	
	• Pack Issue (Record all Issuing Transactions)	
	18. Blood Issued to Patient	
	19. Blood Issued to External Locations/Recipients	
	• Pack Return (Records Return Transactions)	

	20. Returned Blood Products	
	21. Unused Blood Products	
	• Pack Transfer (Records Movement of Blood Product within Location)	
	• Pack Discard	
	22. Recording of Discarded Expired Blood Products	
	23. Recording of Discarded Damaged Blood Products	
	24. Pack Conversion (Records Transaction of Converted Blood to Another Product Type)	
	• Return To Supplier	
	• Management Reporting for All Blood Product Stock	
	25. Donor Management	
	• Donor Registration	
	26. Comprehensive Registration of Donors	
	27. Registration of Blood Bags	
	• Blood Group Result Entry	
	28. Supports Display of Previous Results & Creates Alerts	
	29. Workload	
	30. Blood Requests	
	31. Antibody Screening and Identification	
	ANATOMICAL PATHOLOGY	
	1. Supports Generation of General Statistical Report	
	• Workload	
	• Turn-Around Time	
	• Graphical Plotting	
	• Automatic Data Export Facilities	
	2. Simple Report Creation	
	3. Full Word Processor Functionality,	

	• Spell Check	
	• Pre-Defined/Coded Comments	
	4. Standard Entry Of Clinical Diagnostic Codes	
	• SNOMED II & International III	
	• Bethesda	
	5. Supports multimedia reporting for inclusion of images and diagrams	
	6. Supports Seamless Enquiry Functionality and Access to All Completed Reports	
	7. Pre-Defined Search Formats and Free-Text Searching	
	8. Hypertext linking within the report for viewing of related request and document details	
	9. Specialized Features Include:	
	• Billing	
	• External Interfaces to Other IT Systems	
	• Digital Imaging	
	10. Must have features that can handle the following:	
	• Mortuary/Autopsy	
	• Histology and Cytology	
	MICROBIOLOGY	
	1. Supports General Reporting	
	• Culture & Non-Culture Tests	
	• Daily Workload Management	
	• Drop-down List and Hot Key Tool	
	• Automatic Decoding of Organism Codes	
	• Online Interfacing to Most Microbiology Analyzers	
	• Straight Forward Result Validation and Reporting	
	• Flexible Configuration of User-Defined Dictionaries	
	2. Electronic Worksheets	

	• Recording of Observations	
	3. Media Results	
	4. IDT Results	
	5. AST Results	
	• Instant Printing of Sample and Media Labels	
	• Accessibility on Previous Results	
	• Delta Check on Identified Organisms	
	• Speedy Result Approval and Report Creation	
	6. Infection Control Data Collection and Reporting	
	• Organism Versus Specimen Type	
	• Organism Versus Location	
	• Sensitivity Reporting	
	• Antibiotic for One Organism	
	• Organism Versus Patient	
	• With free interconnectivity with existing purchased machine – Vitek 2 compact	

Conformed by:

_____

Authorized Representative's
Signature over printed name

Date: _____