

**TENDER REFERENCE NO.: KK/84/2026/LAB**

**MINISTRY OF HEALTH  
NEGARA BRUNEI DARUSSALAM**

**TO SUPPLY AND DELIVER ELISA TESTING REAGENT  
KITS, ACCESSORIES, CONSUMABLES WITH EQUIPMENT  
RENTAL FOR NATIONAL IMMUNOLOGY REFERENCE  
LABORATORY, DEPARTMENT OF LABORATORY  
SERVICES, MINISTRY OF HEALTH**

**TENDER FEES : \$30.00**

**RECEIPT NO. :**

**CLOSING DATE : ON Tuesday, 02nd June 2026**

**TIME : 2.00 PM**

**FOA :**

**THE CHAIRMAN  
MINI TENDER BOARD, TENDER BOX  
GROUND FLOOR, MINISTRY OF HEALTH  
COMMONWEALTH DRIVE  
BANDAR SERI BEGAWAN BB3910  
NEGARA BRUNEI DARUSSALAM**

**(CLUSTERING)**

**SECTION 2**

**SPECIFICATIONS AND REQUIREMENTS**

**TENDER REFERENCE NO: KK/84/206/LAB**

**INVITATION TO TENDER  
TO SUPPLY AND DELIVER ELISA TESTING REAGENT KITS, ACCESSORIES, CONSUMABLES  
WITH EQUIPMENT RENTAL FOR NATIONAL IMMUNOLOGY REFERENCE LABORATORY,  
DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH**

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**1. SUPPLY OF REAGENTS**

1.1 To supply reagents and associated consumables (calibrators, controls, accessories and consumables) for the tests listed below.

**APPENDIX A: SUMMARY OF UNIT PRICE OF REAGENT KIT  
(To be completed by Vendor for submission)**

<b>DELIVERY PERIOD</b>	<b>PREFERABLY 4-8 WEEKS AND NO LONGER THAN 12 WEEKS</b>
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NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE / YEAR
1	ELISA reagents for IGG Antibodies To Anti-Deoxyribose Nucleic Acid Antibodies (Anti-DNA)	96 tests per kit	11 kits
2	ELISA reagents for Antibodies To SSA (Anti-RO)	96 tests per kit	11 Kits
3	ELISA reagents for Antibodies To SSB (Anti-LA)	96 tests per kit	11 Kits
4	ELISA reagents for Antibodies To SM (Anti-SM)	96 tests per kit	11 Kits
5	ELISA reagents for Antibodies To RNP (Anti-RNP)	96 tests per kit	11 Kits
6	ELISA reagents for Antibodies To SCL70 (Anti-SCL70)	96 tests per kit	11 Kits
7	ELISA reagents for Antibodies To JO-1 (Anti-JO-1)	96 tests per kit	11 Kits
8	ELISA reagents for IGG Antibodies To Anti-Myeloperoxidase (MPO)	96 tests per kit	11 Kits
9	ELISA reagents for IGG Antibodies To Anti-Proteinase 3 (PR3)	96 tests per kit	11 Kits
10	ELISA reagents for IGG Antibodies To Thyroid Peroxidase (Anti-TPO)	96 tests per kit	11 Kits
11	ELISA reagents for IGG Antibodies To Thyroglobulin (Anti-TG)	96 tests per kit	11 Kits
12	ELISA reagents for IGG Antibodies To Cyclic Citrullinated Peptide II (Anti-CCP II)	96 tests per kit	11 Kits
13	ELISA reagents for IGG Antibodies To Anticardiolipin	96 tests per kit	11 kits
14	ELISA reagents for IGM Antibodies To Anticardiolipin	96 tests per kit	11 Kits
15	ELISA reagents for IGG Antibodies To Anti-β2 Glycoprotein I	96 tests per kit	6 Kits
16	ELISA reagents for IGM Antibodies To Anti-β2 Glycoprotein I	96 tests per kit	6 Kits

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE / YEAR
17	ELISA reagents for Antibodies TSH receptor (thyrotropin receptor)	96 tests per kit	11 Kits
18	ELISA reagents for IgG Antibodies To Tyrosine Phosphatase (IA2)	96 tests per kit	2 Kits
19	ELISA reagents for IgG Antibodies To Glutamic Acid Decarboxylase (GAD)	96 tests per kit	2 Kits
20	ELISA reagents for IgG Antibodies To Phospholipase A2 Receptor (PLA2R)	96 tests per kit	2 Kits
21	Consumables of conductive tips, 300 µl	18 packs x 960 tips	2 boxes
22	Consumables of conductive tips, 1100 µl	10 packs x 960 tips	4 boxes
23	Consumables of adjustment solution, 50 ml	18 bottle per box	5 kits
24	Consumables of deepwell plate	5 plates x 10 packs	2 boxes
25	Consumables of Set up Clean	5 bottles per pack	3 packs

**\*Cost per test should include the kit, control, calibrator and accessories/consumables required to run the test.**

<b>NO.</b>	<b>SPECIFICATIONS AND REQUIREMENTS</b>
<b>1.0</b>	<b>PROVISION OF EQUIPMENT</b>
1.1	Two (2) units of equipment to comprise of an open, fully automated system for processing ELISA tests with a high throughput that is to be provided in Immunology Laboratory Services, Department of Laboratories, RIPAS Hospital. Tenderer must provide a general overview of the system and in addition, indicating for each point below, whether the system offered, complies with the tender specifications.
<b>2.0</b>	<b>EQUIPMENT SPECIFICATION</b>
<b>2.1</b>	<b>General Features</b>
2.1.1	Laboratory automated workstation shall integrate and completely automate the following operations: <ul style="list-style-type: none"> <li>i. Sampling</li> <li>ii. Control dilution</li> <li>iii. Conjugate addition</li> <li>iv. Incubation</li> <li>v. Microplate washing</li> <li>vi. Photometric measurements</li> <li>vii. Results calculation (Negative/Cut-off/Positive)</li> <li>viii. Result archiving</li> </ul> Patient Results Database Management
2.1.2	The equipments shall be able to automate the following extensive applications: <ul style="list-style-type: none"> <li>i. ELISA or EIA.</li> <li>ii. Capacity of processing 8-96 wells/microplate.</li> </ul> Capacity of microplates: minimum of 2 plates x 96 samples/run.
<b>2.2</b>	<b>Pipetting Specification</b>
2.2.1	Shall be able to process a minimum of two microplates per run.
2.2.2	Shall be able to run up to a minimum of 10 simultaneous tests per microplate.
2.2.3	Shall have different disposable tips for sample pipetting and reagent pipetting.
2.2.4	Shall be able to detect liquid level and clots by having a proper liquid/clot sensor.
2.2.5	Shall be equipped with tools for single and multi-tip pipetting by using a fast x-y-z robotic arm.
2.2.6	Range of pipetting shall be 10 – 1000µL.
2.2.7	Volume delivered shall be accurate and consistent.
2.2.8	Dispensing time shall be less than 16 minutes per full plate.
2.2.9	Reagent pipetting shall be precise (e.g. 100µL) into each microtitre well and takes not more than 4 minutes for each full plate.
<b>2.3</b>	<b>Washer Module Specification</b>
2.3.1	Manifold shall be with 8 channels (16 needles).
2.3.2	Programme Cycle Volume range must be 1-9.
2.3.3	Must be able to accept all plate type i.e. bottom shape: Flat, u- or v- shaped and wash mode; plate and strip only.
2.3.4	Soak time range must be 0-999 seconds.
2.3.5	Must come with 3 wash buffer bottles with level sensor and auto switch 2 x 2L.
2.3.6	Wash buffer volume available shall be up to 1.650L (350mL dead volume).
<b>2.4</b>	<b>Reader Module Specification</b>
2.4.1	Absorbance reading range shall be within 0 – 3.5 OD.
2.4.2	Shall have a maximum of 8 different filters (including 450, 492 and 620nm single or dual wavelength).

<b>NO.</b>	<b>SPECIFICATIONS AND REQUIREMENTS</b>
2.4.3	Precision shall be 2.5% (0 – 2.0 OD)
2.4.4	Linearity shall be $\pm 1\%$ (0 – 2.0 OD).
2.4.5	Resolution shall be 0.001 OD
<b>2.5</b>	<b>Incubator Module Specification</b>
2.5.1	Shall have 2 independent temperature-controlled incubators and 3 ambient light protected incubators.
2.5.2	Shall have 2 heated incubators (independent, heat able from room temperature +5 °C up to 50°C and with accuracy of $\pm 1\%$ )
2.5.3	Incubation timer shall be programmable between 0-9999 minutes and is managed by its own software.
<b>2.6</b>	<b>Software Specification</b>
2.6.1	The software shall have an operating system fully compatible with Windows 11
2.6.2	Shall be possible to connect to any type of printer (either USB or Parallel) with all required hardware installed.
2.6.3	Data processing shall be able to perform cut-off method for qualitative results
2.6.4	Quantitative results by interpolation shall show graphs from standards defined in the assay.
2.6.5	Shall be able to generate report work list, test results table, patient report & sample report.
2.6.6	Shall be able to export results either as ASCII (*.txt)
<b>2.7</b>	<b>Additional Features</b>
2.7.1	Shall be equipped with internal bar code scanner for identification of sample ID.
<b>2.8</b>	<b>Physical Dimensions and Weight</b>
2.8.1	Dimensions shall not exceed 160cm (B) x 75 cm (T) x 115 cm (H)
2.8.2	The weight shall not exceed 100kg.
<b>2.9</b>	<b>IT Specification</b>
2.9.1	The equipments should be interfaced to our LIS, which will be provided by the successful Tenderer at their cost.
2.9.2	One unit of coloured printer with back to back printing. To include all the accessories required and replacement of ink cartridges when necessary.
<b>3.0</b>	<b>TECHNICAL SPECIFICATIONS</b>
3.1	The equipments shall remain operational and with the specification throughout the voltage range of 240V $\pm 6\%$ , 50/60Hz $\pm 2\%$ , and 1 – phase AC electrical supply.
3.2	The equipments shall be provided with two sets of operation manual and one set of service manual complete with circuit diagrams and full spare parts list.
3.3	Service training shall be provided to maintenance personnel at no additional costs, when necessary.
3.4	Validation of the equipments is to be conducted by the Tenderer and reagent kits and consumables used for validation purposes are to be provided by the Tenderer, when necessary.
<b>4.0</b>	<b>SERVICE AND AFTER SALES SUPPORT</b>
4.1	All reagent test kits / consumables supplied throughout this tender shall have a minimum expiry date of <b>six (6) months on delivery</b> . Should the reagent or consumable be urgently needed, provision of a reagent test kit or consumable with expiry date of less than six (6) months should be first agreed by the User of the particular laboratory before delivery is made.
4.2	Letter of Undertaking (LOU) shall be produced upon each delivery of test kit or consumable with expiry date of less than six (6) months and vendor shall declare in the LOU that unused, unopened, expired kits will be replaced accordingly. For items which are known to have short expiry date such as those containing red blood cells, list down all such items and

NO.	SPECIFICATIONS AND REQUIREMENTS
	vendor shall declare in this tender submission of such items and shall be exempted from submitting LOU upon delivery.
4.3	Staggered delivery every 3 months period directly to National Immunology Reference Laboratory.
4.4	User shall have the rights to refuse delivery of items that do not meet the acceptance criteria such as, but not limited to, the following: 1. Tampered or damaged box 2. Leakage upon delivery 3. Items stored pre-delivery not in accordance to manufacturer's instructions 4. Expiry date not meeting requirement
4.5	User shall have the rights to return any items, and to be replaced at no extra cost, if found not meeting the acceptance criteria upon opening a pack such as, but not limited to, the following: 1. Tampered or damaged packaging 2. Evident of leakage or damaged products 3. Expired products that are evidently less than the requirement mentioned in para 4.1 calculated from delivery date 4. Leakage upon delivery
4.6	Vendor shall submit samples of the offered items directly to the Users no later than 7 days after the Closing Date of this advertisement or as required by the Users.
4.7	Please supply details of the arrangement for 24-hour service support. There should preferably be remote diagnostic facility available. This should include the number of engineers and application specialist, their qualification/training with the system, response time during office hours, after office hours, weekdays and weekends.
4.8	The supplier SHALL be responsible for the preventive maintenance (Weekly, Monthly, and Quarterly as needed) and breakdown maintenance of the analyzers. Any breakdown should be quickly attended to within 2 hours.
4.9	A copy of service report must be submitted to the laboratory whenever service work is done on the instrument.
4.10	Spare parts SHALL be supplied by the supplier should any replacement is required during preventive and breakdown maintenance.
4.11	Vendor shall aid the user with verification of a comprehensive methods performance for all of the tests listed above including, but not limited to, precision, accuracy, linearity, sensitivity, specificity, carryover, limit of detection or as required by the User depending on the nature of testing. Report of the verification study shall be submitted to the User for approval by the Director of Laboratory Services.
4.12	In the event of test results cannot be produced due to equipment failure or unavailable reagent supplies within the specified turnaround time, the vendor shall arrange and bear all costs for analysis of tests to an accredited laboratory (ISO 15189).
<b>5.0</b>	<b>ENVIRONMENTAL AND INFRASTRUCTURE REQUIREMENTS</b>
5.1	The system shall occupy space not more than the present system in the laboratory. If any renovation (electrical and/or environmental) is required, costs shall be borne by Vendor.
5.2	Should any renovation is required, Vendor shall comply with the Ministry's procedure for infection control risk assessment (ICRA), implementation and monitoring as set out in the document titled Construction and/or Renovation, Maintenance, Repair and Demolition in the Health Care Setting.
5.3	Power and water requirements: No or low water consumption. If water is required, state how much and what purity, with provision of water purification system included. Please provide specification for power requirement. All costs for installing electrical and water requirements shall be borne by the Vendor. All the electrical wires shall be covered with PVC trunk properly for safety precautions.
5.4	Electrical Safety – Vendor shall test for and maintain the electrical safety of all equipment and accessory devices installed throughout their usage period. This include conducting electrical safety testing upon installation & during preventive maintenance (at least every six (6) months) using calibrated device. Electrical safety testing report shall be submitted to the laboratory for acceptance.

<b>NO.</b>	<b>SPECIFICATIONS AND REQUIREMENTS</b>
5.5	Temperature and humidity requirement: preferably 22 – 28 °C and up to 80% relative humidity.
5.6	Floor area and drainage requirements: preferably adaptable to present facilities.
5.7	Heat and noise generation: preferably less than 7,000 BTU per unit and ≤ 65 dBA at the front of the unit while at full operation.
5.8	Low generation of hazardous chemical or biological waste.
5.9	If biological liquid waste is generated, the supplier shall provide the following for suitable waste containers; i. Two waste containers shall be capped, have an inlet and outlet, easy to handle and do not hold more than 15L of liquid waste ii. When the production of waste liquid is more than 15L/day, a direct waste pipe shall be installed. A pre-dilution container shall be provided with easy access to add disinfectant and dispose of waste liquid. A preventive pipe shall be installed to prevent overflowing liquid waste from the waste containers Proper guidelines to disinfect the liquid waste that is acceptable to ISO 15189 shall be provided
5.10	The successful vendor shall keep the area behind of the equipment tidy and clean at all times. All wires and cables shall be properly covered using PVC trunk, flexible wire and cable cover or equivalent that is acceptable to the laboratory.
<b>6.0</b>	<b>MISCELLANEOUS</b>
6.1	All reagents including calibrators and controls are barcoded.
6.2	All the tests use same wash buffer, substrate and adjustment solution.
6.3	Calibrators and controls are ready to use and transferring to external tubes are not required.
6.4	Rack is designed to fit for each reagent with no adaptor required.
6.5	The tendered costs should cover the provision of equipments/ test kits / consumables required to run the tests listed above.
6.6	Stock of the test kit and consumables should be available at the local representative as contingency. The Tenderer must have their own storage facilities to store the test kits prior to delivery to the laboratory store. The test kit must be stored according to the manufacturer's specification.
6.7	The equipments supplied should include reagents, consumables, calibrators and quality control for the initial setting up of the equipments, commissioning, training and verification.
6.8	Should there be any discontinuity of reagents due to non-compliance in the manufacturing of reagents; the Tenderer must be able to provide an alternative so that the test requests are still available for our customers.
6.9	All costs incurred for the supply and delivery of reagents, equipments, LIS linkage and other accessories required by the tender will be borne by the successful Tenderer.
6.10	The successful Tenderer will provide the ELISA system free of charge to run all the tests listed and covered with full comprehensive equipments maintenance service
<b>7.0</b>	<b>LITERATURE</b>
7.1	To supply one (1) CD or one (1) set of hard copy of the Operating Manual and Service Manual including circuit diagrams of the equipment shall be provided upon commissioning.
7.2	To supply the laboratory with one (1) set of Material Safety Data Sheet (MSDS)
7.3	To supply hardcopy of maintenance log with list of details of daily, weekly or scheduled maintenance
<b>8.0</b>	<b>TRAINING</b>
8.1	Training shall be provided, at no additional cost, as follows:
8.2	On-site training for ALL staff members expected to handle the machine. Please ensure that adequate time is allocated such that training will take place in small groups to minimize staff shortage in the laboratory.

<b>NO.</b>	<b>SPECIFICATIONS AND REQUIREMENTS</b>
8.3	Certificate of competence is to be issued to all trainees after completion of training.
8.4	The successful tenderer needs to ensure the key users are updated on any relevant information related to the laboratory testing.
8.5	Inviting speakers from overseas to give talks or presentations to the users on topics related to the laboratory testing as part of users' continuous education. Certificate of attendance is to be issued to all trainees after completion of training.
<b>9</b>	<b>FINANCIAL AGREEMENT</b>
9.1	A rental agreement is required over a period of five (5) years for the provision of the reagent kits as per estimated total costs for this contract. However contract agreement shall be terminated when total expenditures of supplies exceed the estimated total costs regardless of five (5) years contract.
9.2	Supply of the test kit including reagents, consumables and accessories is based on the number of kits required in the Purchase Order according to an agreed schedule period.
9.3	Buffer stock of the test kit including reagents, consumables and accessories should be available at the local representative as contingency.
9.4	The equipment supplied should include reagents, consumables, calibrators, maintenance record sheet, maintenance cleaning kit and quality control for initially setting up of the instruments.
9.5	Should there be any discontinuity of reagents due to non-compliance in the manufacturing of reagents; the vendor must be able to provide an alternative so that the test requests are still available for the customers.
9.6	All costs incurred for the supply and delivery of test kit including reagents, consumables and accessories, equipment and other accessories required by the tender will be borne by the successful vendor.
9.7	<b>EXIT CLAUSE:</b> The tender contract shall be automatically terminated even though tender has not yet expired and this shall be in effect due to, but not limited to, the following: 1. When the testing is no longer required or relevant i.e. test is obsolete, to the laboratory or department. 2. When the item(s) set out in this tender is/are no longer required by the laboratory or the Department. 3. When the approved budget allocation for this tender contract has been used up before the tender contract expires whereby a renewal of tender shall be submitted by the user for an open advertisement subject to approval by the Mini Tender Board ( <i>Lembaga Tawaran Kecil</i> ).
10	<b>DELIVERY PERIOD:</b> Preferably 4 – 8 weeks and no later than 12 weeks after issue of Purchase Order
11	<b>PRICE VALIDITY:</b> The quotation shall remain valid for 12 MONTHS from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s).

NO.	GENERAL SPECIFICATIONS
A	Model & Brand
B	Country of Origin
C	Total Price Per Test (CIF): B\$
D	Price Ranking:
E	Where marketed
F	Year of Manufacture
G	Warranty:
H	Delivery Time:
I	Power Requirements:
J	Battery Back-up:
K	International Safety Standard:
L	Technical Support:
M	Equipment Whole Life Support
N	Dimensions (WxHxD) cm:
O	Weight (kg):
P	User Manuals
Q	Service Manuals
R	Spare-parts & Consumables Listing
S	Technical Training On-Site:
T	Site Requirements:

\*To all participating companies, please fill in the table above along with your other documents during submission of tender.

<b>DELIVERY PERIOD AFTER PO ISSUED</b>	<b>Preferably 4-8 weeks and no longer than 12 weeks</b>	
Lab/Section/Unit	National Immunology Reference Laboratory	
Lab/Section/Unit Ref No.:	DLS/PU/NIRL/09	
Person to Contact	Name : Saifuddin Haji Bagol	
	E-mail : saifuddin.bagol@moh.gov.bn	
	Tel. No. : 2242424 ext.6351	Fax No.: 2220869
<b>FOR ADMINISTRATION USE ONLY</b>		
PPM/PROC Ref. No.	PPM/PROC/2026/>50K/010(NIRL)	
Advertisement Ref. No.		Date:

**SCHEDULE 1**

**TENDER FORM**

To:

**TENDER REFERENCE NO: KK/84/206/LAB**

**INVITATION TO TENDER**

**TO SUPPLY AND DELIVER ELISA TESTING REAGENT KITS, ACCESSORIES, CONSUMABLES WITH EQUIPMENT RENTAL FOR NATIONAL IMMUNOLOGY REFERENCE LABORATORY, DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH**

**TENDER OF (*name of tenderer*)** \_\_\_\_\_

Company/Business Registration No. \_\_\_\_\_

Tender Closing Date \_\_\_\_\_

**1. SUPPLY OF REAGENTS**

**1.1** To supply reagents and associated consumables (calibrators, controls, accessories and consumables) for the tests listed below.

**APPENDIX A: SUMMARY OF UNIT PRICE OF REAGENT KIT  
(To be completed by Vendor for submission)**

USER'S REQUIREMENTS				VENDOR'S OFFER					
NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE / YEAR	ITEM DESCRIPTIONS AND SPECIFICATIONS	PART/ CATALOGUE NUMBER AND BRAND	PACKAGING SIZE	TOTAL QUANTITY OFFERED / YEAR	*COST PER UNIT (B\$)	TOTAL COSTS (B\$)
1	ELISA reagents for IGG Antibodies To Anti-Deoxyribose Nucleic Acid Antibodies (Anti-DNA)	96 tests per kit	11 kits						
2	ELISA reagents for Antibodies To SSA (Anti-RO)	96 tests per kit	11 Kits						

	USER'S REQUIREMENTS			VENDOR'S OFFER					
NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE / YEAR	ITEM DESCRIPTIONS AND SPECIFICATIONS	PART/ CATALOGUE NUMBER AND BRAND	PACKAGING SIZE	TOTAL QUANTITY OFFERED / YEAR	*COST PER UNIT (B\$)	TOTAL COSTS (B\$)
3	ELISA reagents for Antibodies To SSB (Anti-LA)	96 tests per kit	11 Kits						
4	ELISA reagents for Antibodies To SM (Anti-SM)	96 tests per kit	11 Kits						
5	ELISA reagents for Antibodies To RNP (Anti-RNP)	96 tests per kit	11 Kits						
6	ELISA reagents for Antibodies To SCL70 (Anti-SCL70)	96 tests per kit	11 Kits						
7	ELISA reagents for Antibodies To JO-1 (Anti-JO-1)	96 tests per kit	11 Kits						
8	ELISA reagents for IGG Antibodies To Anti-Myeloperoxidase (MPO)	96 tests per kit	11 Kits						
9	ELISA reagents for IGG Antibodies To Anti-Proteinase 3 (PR3)	96 tests per kit	11 Kits						
10	ELISA reagents for IGG Antibodies To Thyroid Peroxidase (Anti-TPO)	96 tests per kit	11 Kits						
11	ELISA reagents for IGG Antibodies To Thyroglobulin (Anti-TG)	96 tests per kit	11 Kits						
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16	ELISA reagents for IGM Antibodies To Anti-β2 Glycoprotein I	96 tests per kit	6 Kits						
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18	ELISA reagents for IgG Antibodies To Tyrosine Phosphatase (IA2)	96 tests per kit	2 Kits						
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20	ELISA reagents for IgG Antibodies To Phospholipase A2 Receptor (PLA2R)	96 tests per kit	2 Kits						
21	Consumables of conductive tips, 300 µl	18 packs x 960 tips	2 boxes						
22	Consumables of conductive tips, 1100 µl	10 packs x 960 tips	4 boxes						

	USER'S REQUIREMENTS			VENDOR'S OFFER					
NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE / YEAR	ITEM DESCRIPTIONS AND SPECIFICATIONS	PART/ CATALOGUE NUMBER AND BRAND	PACKAGING SIZE	TOTAL QUANTITY OFFERED / YEAR	*COST PER UNIT (B\$)	TOTAL COSTS (B\$)
23	Consumables of adjustment solution, 50 ml	18 bottle per box	5 kits						
24	Consumables of deepwell plate	5 plates x 10 packs	2 boxes						
25	Consumables of Set up Clean	5 bottles per pack	3 packs						

**\*Cost per test should include the kit, control, calibrator and accessories/consumables required to run the test.**

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
<b>1.0</b>	<b>PROVISION OF EQUIPMENT</b>	
1.1	Two (2) units of equipment to comprise of an open, fully automated system for processing ELISA tests with a high throughput that is to be provided in Immunology Laboratory Services, Department of Laboratories, RIPAS Hospital. Tenderer must provide a general overview of the system and in addition, indicating for each point below, whether the system offered, complies with the tender specifications.	
<b>2.0</b>	<b>EQUIPMENT SPECIFICATION</b>	
<b>2.1</b>	<b>General Features</b>	
2.1.1	Laboratory automated workstation shall integrate and completely automate the following operations: i. Sampling ii. Control dilution iii. Conjugate addition iv. Incubation v. Microplate washing vi. Photometric measurements vii. Results calculation (Negative/Cut-off/Positive) viii. Result archiving Patient Results Database Management	
2.1.2	The equipments shall be able to automate the following extensive applications: i. ELISA or EIA. ii. Capacity of processing 8-96 wells/microplate. Capacity of microplates: minimum of 2 plates x 96 samples/run.	
<b>2.2</b>	<b>Pipetting Specification</b>	
2.2.1	Shall be able to process a minimum of two microplates per run.	
2.2.2	Shall be able to run up to a minimum of 10 simultaneous tests per microplate.	
2.2.3	Shall have different disposable tips for sample pipetting and reagent pipetting.	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
2.2.4	Shall be able to detect liquid level and clots by having a proper liquid/clot sensor.	
2.2.5	Shall be equipped with tools for single and multi-tip pipetting by using a fast x-y-z robotic arm.	
2.2.6	Range of pipetting shall be 10 – 1000µL.	
2.2.7	Volume delivered shall be accurate and consistent.	
2.2.8	Dispensing time shall be less than 16 minutes per full plate.	
2.2.9	Reagent pipetting shall be precise (e.g. 100µL) into each microtitre well and takes not more than 4 minutes for each full plate.	
<b>2.3</b>	<b>Washer Module Specification</b>	
2.3.1	Manifold shall be with 8 channels (16 needles).	
2.3.2	Programme Cycle Volume range must be 1-9.	
2.3.3	Must be able to accept all plate type i.e. bottom shape: Flat, u- or v- shaped and wash mode; plate and strip only.	
2.3.4	Soak time range must be 0-999 seconds.	
2.3.5	Must come with 3 wash buffer bottles with level sensor and auto switch 2 x 2L.	
2.3.6	Wash buffer volume available shall be up to 1.650L (350mL dead volume).	
<b>2.4</b>	<b>Reader Module Specification</b>	
2.4.1	Absorbance reading range shall be within 0 – 3.5 OD.	
2.4.2	Shall have a maximum of 8 different filters (including 450, 492 and 620nm single or dual wavelength).	
2.4.3	Precision shall be 2.5% (0 – 2.0 OD)	
2.4.4	Linearity shall be ±1% (0 – 2.0 OD).	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
2.4.5	Resolution shall be 0.001 OD	
<b>2.5</b>	<b>Incubator Module Specification</b>	
2.5.1	Shall have 2 independent temperature-controlled incubators and 3 ambient light protected incubators.	
2.5.2	Shall have 2 heated incubators (independent, heat able from room temperature +5 °C up to 50°C and with accuracy of ±1%)	
2.5.3	Incubation timer shall be programmable between 0-9999 minutes and is managed by its own software.	
<b>2.6</b>	<b>Software Specification</b>	
2.6.1	The software shall have an operating system fully compatible with Windows 11	
2.6.2	Shall be possible to connect to any type of printer (either USB or Parallel) with all required hardware installed.	
2.6.3	Data processing shall be able to perform cut-off method for qualitative results	
2.6.4	Quantitative results by interpolation shall show graphs from standards defined in the assay.	
2.6.5	Shall be able to generate report work list, test results table, patient report & sample report.	
2.6.6	Shall be able to export results either as ASCII (*.txt)	
<b>2.7</b>	<b>Additional Features</b>	
2.7.1	Shall be equipped with internal bar code scanner for identification of sample ID.	
<b>2.8</b>	<b>Physical Dimensions and Weight</b>	
2.8.1	Dimensions shall not exceed 160cm (B) x75 cm (T) x 115 cm (H)	
2.8.2	The weight shall not exceed 100kg.	
<b>2.9</b>	<b>IT Specification</b>	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
2.9.1	The equipments should be interfaced to our LIS, which will be provided by the successful Tenderer at their cost.	
2.9.2	One unit of coloured printer with back to back printing. To include all the accessories required and replacement of ink cartridges when necessary.	
<b>3.0</b>	<b>TECHNICAL SPECIFICATIONS</b>	
3.1	The equipments shall remain operational and with the specification throughout the voltage range of 240V±6%, 50/60Hz±2%, and 1 – phase AC electrical supply.	
3.2	The equipments shall be provided with two sets of operation manual and one set of service manual complete with circuit diagrams and full spare parts list.	
3.3	Service training shall be provided to maintenance personnel at no additional costs, when necessary.	
3.4	Validation of the equipments is to be conducted by the Tenderer and reagent kits and consumables used for validation purposes are to be provided by the Tenderer, when necessary.	
<b>4.0</b>	<b>SERVICE AND AFTER SALES SUPPORT</b>	
4.1	All reagent test kits / consumables supplied throughout this tender shall have a minimum expiry date of <b>six (6) months on delivery</b> . Should the reagent or consumable be urgently needed, provision of a reagent test kit or consumable with expiry date of less than six (6) months should be first agreed by the User of the particular laboratory before delivery is made.	
4.2	Letter of Undertaking (LOU) shall be produced upon each delivery of test kit or consumable with expiry date of less than six (6) months and vendor shall declare in the LOU that unused, unopened, expired kits will be replaced accordingly. For items which are known to have short expiry date such as those containing red blood cells, list down all such items and vendor shall declare in this tender submission of such items and shall be exempted from submitting LOU upon delivery.	
4.3	Staggered delivery every 3 months period directly to National Immunology Reference Laboratory.	
4.4	User shall have the rights to refuse delivery of items that do not meet the acceptance criteria such as, but not limited to, the following: 1. Tampered or damaged box	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
	2. Leakage upon delivery 3. Items stored pre-delivery not in accordance to manufacturer's instructions 4. Expiry date not meeting requirement	
4.5	User shall have the rights to return any items, and to be replaced at no extra cost, if found not meeting the acceptance criteria upon opening a pack such as, but not limited to, the following: 1. Tampered or damaged packaging 2. Evident of leakage or damaged products 3. Expired products that are evidently less than the requirement mentioned in para 4.1 calculated from delivery date 4. Leakage upon delivery	
4.6	Vendor shall submit samples of the offered items directly to the Users no later than 7 days after the Closing Date of this advertisement or as required by the Users.	
4.7	Please supply details of the arrangement for 24-hour service support. There should preferably be remote diagnostic facility available. This should include the number of engineers and application specialist, their qualification/training with the system, response time during office hours, after office hours, weekdays and weekends.	
4.8	The supplier SHALL be responsible for the preventive maintenance (Weekly, Monthly, and Quarterly as needed) and breakdown maintenance of the analyzers. Any breakdown should be quickly attended to within 2 hours.	
4.9	A copy of service report must be submitted to the laboratory whenever service work is done on the instrument.	
4.10	Spare parts SHALL be supplied by the supplier should any replacement is required during preventive and breakdown maintenance.	
4.11	Vendor shall aid the user with verification of a comprehensive methods performance for all of the tests listed above including, but not limited to, precision, accuracy, linearity, sensitivity, specificity, carryover, limit of detection or as required by the User depending on the nature of testing. Report of the verification study shall be submitted to the User for approval by the Director of Laboratory Services.	
4.12	In the event of test results cannot be produced due to equipment failure or unavailable reagent supplies within the specified turnaround time, the vendor shall arrange and bear all costs for analysis of tests to an accredited laboratory (ISO 15189).	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
<b>5.0</b>	<b>ENVIRONMENTAL AND INFRASTRUCTURE REQUIREMENTS</b>	
5.1	The system shall occupy space not more than the present system in the laboratory. If any renovation (electrical and/or environmental) is required, costs shall be borne by Vendor.	
5.2	Should any renovation is required, Vendor shall comply with the Ministry's procedure for infection control risk assessment (ICRA), implementation and monitoring as set out in the document titled Construction and/or Renovation, Maintenance, Repair and Demolition in the Health Care Setting.	
5.3	Power and water requirements: No or low water consumption. If water is required, state how much and what purity, with provision of water purification system included. Please provide specification for power requirement. All costs for installing electrical and water requirements shall be borne by the Vendor. All the electrical wires shall be covered with PVC trunk properly for safety precautions.	
5.4	Electrical Safety – Vendor shall test for and maintain the electrical safety of all equipment and accessory devices installed throughout their usage period. This include conducting electrical safety testing upon installation & during preventive maintenance (at least every six (6) months) using calibrated device. Electrical safety testing report shall be submitted to the laboratory for acceptance.	
5.5	Temperature and humidity requirement: preferably 22 – 28 °C and up to 80% relative humidity.	
5.6	Floor area and drainage requirements: preferably adaptable to present facilities.	
5.7	Heat and noise generation: preferably less than 7,000 BTU per unit and ≤ 65 dBA at the front of the unit while at full operation.	
5.8	Low generation of hazardous chemical or biological waste.	
5.9	If biological liquid waste is generated, the supplier shall provide the following for suitable waste containers; i. Two waste containers shall be capped, have an inlet and outlet, easy to handle and do not hold more than 15L of liquid waste ii. When the production of waste liquid is more than 15L/day, a direct waste pipe shall be installed. A pre-dilution container shall be provided with easy access to add disinfectant and dispose of waste liquid. A preventive pipe shall be installed to prevent overflowing liquid waste from the waste	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
	containers Proper guidelines to disinfect the liquid waste that is acceptable to ISO 15189 shall be provided	
5.10	The successful vendor shall keep the area behind of the equipment tidy and clean at all times. All wires and cables shall be properly covered using PVC trunk, flexible wire and cable cover or equivalent that is acceptable to the laboratory.	
<b>6.0</b>	<b>MISCELLANEOUS</b>	
6.1	All reagents including calibrators and controls are barcoded.	
6.2	All the tests use same wash buffer, substrate and adjustment solution.	
6.3	Calibrators and controls are ready to use and transferring to external tubes are not required.	
6.4	Rack is designed to fit for each reagent with no adaptor required.	
6.5	The tendered costs should cover the provision of equipments/ test kits / consumables required to run the tests listed above.	
6.6	Stock of the test kit and consumables should be available at the local representative as contingency. The Tenderer must have their own storage facilities to store the test kits prior to delivery to the laboratory store. The test kit must be stored according to the manufacturer's specification.	
6.7	The equipments supplied should include reagents, consumables, calibrators and quality control for the initial setting up of the equipments, commissioning, training and verification.	
6.8	Should there be any discontinuity of reagents due to non-compliance in the manufacturing of reagents; the Tenderer must be able to provide an alternative so that the test requests are still available for our customers.	
6.9	All costs incurred for the supply and delivery of reagents, equipments, LIS linkage and other accessories required by the tender will be borne by the successful Tenderer.	
6.10	The successful Tenderer will provide the ELISA system free of charge to run all the tests listed and covered with full comprehensive equipments maintenance service	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
<b>7.0</b>	<b>LITERATURE</b>	
7.1	To supply one (1) CD or one (1) set of hard copy of the Operating Manual and Service Manual including circuit diagrams of the equipment shall be provided upon commissioning.	
7.2	To supply the laboratory with one (1) set of Material Safety Data Sheet (MSDS)	
7.3	To supply hardcopy of maintenance log with list of details of daily, weekly or scheduled maintenance	
<b>8.0</b>	<b>TRAINING</b>	
8.1	Training shall be provided, at no additional cost, as follows:	
8.2	On-site training for ALL staff members expected to handle the machine. Please ensure that adequate time is allocated such that training will take place in small groups to minimize staff shortage in the laboratory.	
8.3	Certificate of competence is to be issued to all trainees after completion of training.	
8.4	The successful tenderer needs to ensure the key users are updated on any relevant information related to the laboratory testing.	
8.5	Inviting speakers from overseas to give talks or presentations to the users on topics related to the laboratory testing as part of users' continuous education. Certificate of attendance is to be issued to all trainees after completion of training.	
<b>9</b>	<b>FINANCIAL AGREEMENT</b>	
9.1	A rental agreement is required over a period of five (5) years for the provision of the reagent kits as per estimated total costs for this contract. However contract agreement shall be terminated when total expenditures of supplies exceed the estimated total costs regardless of five (5) years contract.	
9.2	Supply of the test kit including reagents, consumables and accessories is based on the number of kits required in the Purchase Order according to an agreed schedule period.	
9.3	Buffer stock of the test kit including reagents, consumables and accessories should be available at the local representative as contingency.	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
9.4	The equipment supplied should include reagents, consumables, calibrators, maintenance record sheet, maintenance cleaning kit and quality control for initially setting up of the instruments.	
9.5	Should there be any discontinuity of reagents due to non-compliance in the manufacturing of reagents; the vendor must be able to provide an alternative so that the test requests are still available for the customers.	
9.6	All costs incurred for the supply and delivery of test kit including reagents, consumables and accessories, equipment and other accessories required by the tender will be borne by the successful vendor.	
9.7	<p><b>EXIT CLAUSE:</b> The tender contract shall be automatically terminated even though tender has not yet expired and this shall be in effect due to, but not limited to, the following:</p> <ol style="list-style-type: none"> <li>1. When the testing is no longer required or relevant i.e. test is obsolete, to the laboratory or department.</li> <li>2. When the item(s) set out in this tender is/are no longer required by the laboratory or the Department.</li> <li>3. When the approved budget allocation for this tender contract has been used up before the tender contract expires whereby a renewal of tender shall be submitted by the user for an open advertisement subject to approval by the Mini Tender Board (<i>Lembaga Tawaran Kecil</i>).</li> </ol>	
10	<p><b>DELIVERY PERIOD:</b> Preferably 4 – 8 weeks and no later than 12 weeks after issue of Purchase Order</p>	<b>(Yes / No)</b> <b>(If No, please specify)</b>
11	<p><b>PRICE VALIDITY:</b> The quotation shall remain valid for 12 MONTHS from the final date for the submission of the quotation and no supplier may withdraw his/her quotation within that period. The Government reserves the right to extend this period if deemed necessary provided that such extension to the quotation validity period shall have written consent of the supplier(s).</p>	

\* 6 months validity required for <\$50K or 12 months for >\$50K

NO.	GENERAL SPECIFICATIONS	VENDOR'S OFFER
A	Model & Brand	
B	Country of Origin	
C	Total Price Per Test (CIF): B\$	
D	Price Ranking:	(leave blank)
E	Where marketed	
F	Year of Manufacture	
G	Warranty:	
H	Delivery Time:	
I	Power Requirements:	
J	Battery Back-up:	
K	International Safety Standard:	
L	Technical Support:	
M	Equipment Whole Life Support	
N	Dimensions (WxHxD) cm:	
O	Weight (kg):	
P	User Manuals	
Q	Service Manuals	
R	Spare-parts & Consumables Listing	
S	Technical Training On-Site:	
T	Site Requirements:	

\*To all participating companies, please fill in the table above along with your other documents during submission of tender.

1. We offer and undertake on your acceptance of our Tender to supply and deliver the above mentioned goods in accordance with your Invitation To Tender.
2. Our Tender is fully consistent with and does not contradict or derogate from anything in your Invitation To Tender. We have not qualified or changed any of the provisions of your Invitation To Tender.
3. We shall execute a formal agreement in the appropriate form set out in Section 4 – Contract of the Invitation to Tender together with such further terms and conditions, if any, agreed between the Government and us.
4. OUR OFFER IS VALID FOR **TWELVE (12)** CALENDER MONTHS FROM THE TENDER CLOSING DATE.
5. When requested by you, we shall extend the validity of this offer.
6. We further undertake to give you any further information which you may require.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
*[Signature of authorised officer of Tenderer]*

Name:

Designation:

Tenderer's official stamp: