

REFERENCE OF TENDER	DESCRIPTION OF TENDER	TIME PERIOD OF TENDER	DEPARTMENT/DIVISION/UNIT REQUESTING TENDER	FEES	CLOSING DATE NOT LATER THAN 12.00AM	FOCAL PERSON
KK/85/2024/LAB(TC)	TO SUPPLY AND DELIVER SARS-COV-2 SEQUENCING LABORATORY REAGENTS AND CONSUMABLES FOR COVID-19 SURVEILLANCE AND COVID -19 SEQUENCING EQA PPROGRAMME FOR MICROBIAL GENOMICS SERVICES, DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH FOR A PERIOD OF THREE(3) YEARS USAGE	3 YEARS	DEPARTMENT OF LABORATORY SERVICES	\$100.00	21 ST MAY 2024	<p>Dr Muhd Haziq Fikry bin Hj Abdul Momin Microbial Genomics Services Department of Laboratory Services Ministry Of Health Negara Brunei Darussalam Contact No: 2242424 e-mail: haziq.momin@moh.gov.bn</p>

NOMBOR TAWARAN : KK/85/2024/LAB(TC)

**KEMENTERIAN KESIHATAN
NEGARA BRUNEI DARUSSALAM**

**TO SUPPLY AND DELIVER SARS-COV-2 SEQUENCING
LABORATORY REAGENTS AND CONSUMABLES FOR COVID-19
SURVEILLANCE AND COVID -19 SEQUENCING EQA PPROGRAMME
FOR MICROBIAL GENOMICS SERVICES, DEPARTMENT OF
LABORATORY SERVICES, MINISTRY OF HEALTH FOR A PERIOD
OF THREE(3) YEARS**

YURAN TAWARAN: \$100.00

NOMBOR RESIT :

TARIKH TUTUP : HARI SELASA, 21HB MAY 2024

JAM : 2.00 PETANG

KEPADA :

**PENGERUSI LEMBAGA TAWARAN KECIL
PETI TAWARAN, TINGKAT BAWAH
BANGUNAN KEMENTERIAN KESIHATAN
COMMONWEALTH DRIVE
BANDAR SERI BEGAWAN BB 3910
NEGARA BRUNEI DARUSSALAM**

(CLUSTERING)

SECTION 2

SPECIFICATIONS AND REQUIREMENTS

TENDER REFERENCE NO: KK/85/2024/LAB(TC)

INVITATION TO TENDER

TO SUPPLY AND DELIVER SARS-COV-2 SEQUENCING LABORATORY REAGENTS AND CONSUMABLES FOR COVID-19 SURVEILLANCE AND COVID-19 SEQUENCING EQA PROGRAMME FOR MICROBIAL GENOMICS SERVICES, DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH FOR A PERIOD OF THREE (3) YEARS USAGE

DELIVERY PERIOD	4-8 WEEKS AND NO LONGER THAN 12 WEEKS
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NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
1	<p>ATOPlex RNA Universal Library Prep Set, 96 RXN</p> <p>Components:</p> <ol style="list-style-type: none"> 1. ATOPlex RNA Universal Library Prep Module - to be used for the mastermix preparation of the Reverse Transcriptase (conversion of viral RNA to cDNA), 1st PCR (Viral genome and target region amplification), and 2nd PCR (Target region enrichment and adapter ligation) 2. Internal Control Primer Pool (96 RXN) - contained the primer required for the amplification of the targeted region in the two-step's PCR 3. ATOPlex Dual Barcode Primer Module (01-96) - used to construct dual barcodes which help to reduce the ratio of barcode crosstalk and error rate. The barcode is unique for each sample. 4. ATOPlex Dual Barcode Balanced Library Reagent - The complexity of ATOPlex libraries is low, which can cause the separation of certain bases and affect the accuracy of base calling. Therefore, the addition of a mixed balanced library for sequencing is required. The mixed balanced library must be dual barcoded (ATOPlex Dual Barcode Balance Library Reagent), added according to the DNB amount and the mixing ratio between the ATOPlex library and balanced library should be 3:1. <p>State the shelf life of item.</p>	96 RXN/SET	20 SETS

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
2	<p>Dual Barcode Circularization Kit, 16 RXN</p> <p>Components:</p> <ol style="list-style-type: none"> 1. DNA Clean Beads, 3.2ml – Used for purification and size selection of DNA samples. Used for the preparation of pooled samples and clean-up of digestion products. DNA products more than 100bp in length are efficiently recovered. Compatible with a variety of vendors DNA and RNA library construction kits. 2. Dual Barcode Circularization Module - A module library prep kit designed for high-throughput sequencing platform. Used to prepare a single-stranded circular DNA library from PCR products. Used for the denaturation, single-stranded circularization and enzymatic digestion of pooled samples. <p>State the shelf life of item.</p>	16RXN/KIT	3 KITS
3	<p>DNBSEQ-G50RS High-throughput Sequencing Set with FCL 100 and PE100, 100G, Per Set</p> <p>Components consisting:</p> <ol style="list-style-type: none"> 1. DNBSEQ-G50RS Sequencing Flow Cell - It is a photolithographic nano flow cell, with surface nano-slot patterned distribution. Act as a channel for adsorbing mobile DNA fragments and a core sequencing reactor vessel. 2. DNBSEQ-G50RS High-throughput Sequencing Kit FCL PE100/FCS PE150 - Contained the cartridge as well as reagents to be used for the preparation of DNB and sequencing. <p>State the shelf life of item.</p>	96 RXN/SET	20 SETS
4	<p>cPAS Barcode Primer 3 Reagent Kit</p> <ol style="list-style-type: none"> 1. 1µM AD153 Barcode Primer 3 2. Act as primer for pair-end sequencing. <p>State the shelf life of item.</p>	2 RXN/KIT	10 KITS
5	<p>dsDNA HS Assay Kit, per kit, 500 assays, 0.2-100ng</p> <ol style="list-style-type: none"> 1. 500 assays, 0.2-100ng, Detection Method: Fluorescent 2. Used to quantify the purified 2nd PCR 	500 ASSAYS/ KIT	2 KITS

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
	<p>products, and pooled products compatible with Qubit™ 4 Fluorometer</p> <p>3. Products required a concentration of more than 4 ng/uL, and 400 ng respectively in order to meet the sequencing requirements.</p> <p>State the shelf life of item.</p>		
6	<p>ssDNA Assay Kit, per kit, 100 assays, 1-200ng</p> <p>1. 100 assays, 1-200ng, Detection Method: Fluorescent</p> <p>2. Used to quantify the purified Enzymatic Digestion product and DNB compatible with Qubit™ 4 Fluorometer</p> <p>3. Products required a concentration of more than 10 ng and 8ng/uL respectively in order to meet the sequencing requirements.</p> <p>State the shelf life of item.</p>	100 ASSAYS/ KIT	1 KIT
7	<p>BiOptic Standard Cartridge Kit (Qsep400-4-Channel Use) (S2) S2-Standard Cartridge *1, (800 runs/4-Channel Cartridge) with Buffer and Standard Alignment Marker, 2 Cartridges/Kit.</p> <p>1. Standard Cartridge (S2), 4-Channel Cartridge</p> <p>2. Size range: 10-5,000bp; L.O.D: 0.1 ng/uL or 2 pg/uL in water; Best Resolution: 4-10bp</p> <p>3. Analytic Times (per run): 2~3 mins; Sample Number (per cartridge): 200 runs</p> <p>4. Sample consumption (per cartridge): <0.1 uL; Recommended Sample Volume: 0.1 mL tube: 10 uL or 0.2 mL tube: 20 uL or Microvial: 1~2 uL</p> <p>5. Used to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements.</p> <p>State the shelf life of item.</p>	2 CARTRIDGE/KIT	3 KITS
8	<p>Size Marker, Standard 50bp Ladder</p> <p>1. Compatible to be used with BiOptic Standard Cartridge Kit (Qsep400-4-</p>	500µL/ KIT	3 KITS

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
	<p>Channel Use) (S2)</p> <p>2. Used to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements.</p> <p>State the shelf life of item.</p>		
9	<p>Ethanol Absolute, undenatured, 100% (200 proof), Molecular Biology Grade, 500ml/bottle</p> <p>1. Used to make 80% Ethanol for clean-up of 1st PCR, 2nd PCR and Enzymatic Digestion.</p> <p>State the shelf life of item.</p>	500ML/ BOTTLE	3 BOTTLES
10	<p>Tween 20 Surfact Amps Detergent Solution, 500ml/bottle</p> <p>1. Used for DNBSEQ-G50 Sequencer maintenance washing.</p> <p>State the shelf life of item.</p>	500ML/ BOTTLE	1 BOTTLE
11	<p>Sodium Hydroxide 2N, 1000ml/bottle</p> <p>1. Used for DNBSEQ-G50 Sequencer maintenance washing.</p> <p>State the shelf life of item.</p>	1000ML/ BOTTLE	1 BOTTLE
12	<p>Sodium Chloride 5M, 1000ml/bottle</p> <p>1. Used for DNBSEQ-G50 Sequencer maintenance washing</p> <p>State the shelf life of item.</p>	1000ML/ BOTTLE	1 BOTTLE
13	<p>RNase Away Reagent, 250ml/bottle</p> <p>1. RNase AWAY® Reagent is a ready-to-use solution for eliminating RNase contamination from labware.</p> <p>State the shelf life of item.</p>	250ML/ BOTTLE	4 BOTTLES
14	<p>1-100uL Filter Tips, Yellow, DNase/RNase Free, Sterile, Rack Pack, 96/Rack, 50 Racks/Case</p> <p>1. Minimum volume of 1uL, Maximum volume of 100uL, Filter Tips.</p> <p>2. Required filter pipette tips because without filter increase the risk of cross-contamination of different samples.</p> <p>3. Used to clean up of 1st and 2nd PCR Products</p>	50 RACKS/ CASE	4 CASES

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
	<p>4. Used to transfer samples and master mix for volume 100uL or lower.</p> <p>State the shelf life of item.</p>		
15	<p>100-1000uL Filter Tips, Blue, DNase/RNase Free, Sterile, Rack Pack, 96/Rack, 50 Racks/Case</p> <ol style="list-style-type: none"> 1. Minimum volume of 100uL. Maximum volume of 1000ul, Filter Tips. 2. Required filter pipette tips because without filter increase risk of cross-contamination of different samples. 3. Used mostly for the clean-up of Enzymatic Digestion Products. 4. Used for preparation of reagent cartridge and washing cartridge. 5. Used to transfer samples and master mix for volume 1000uL or lower. <p>State the shelf life of item.</p>	50 RACKS/ CASE	1 CASE
16	<p>Assay Tubes, 500 Tubes/Pack</p> <ol style="list-style-type: none"> 1. Maximum volume of 500µL, thin-walled polypropylene tubes 2. Used to quantify the purified 2nd PCR products, pooled products, enzymatic digestion products and DNB compatible with Qubit™ 4 Fluorometer 3. Products required a concentration of more than 4 ng/uL, 400 ng, 10 ng and 8 ng/uL respectively in order to meet the sequencing requirements. <p>State the shelf life of item.</p>	500 TUBES/ PACK	1 PACK
17	<p>96-well qPCR Plates, 0.2ml Non-skirted, Clear, Cut Corner, H1, 10 Pieces/Box, 5 Boxes/Carton</p> <ol style="list-style-type: none"> 1. Maximum volume of 0.2ml 2. Used to place 96 samples to be run Reverse Transcriptase PCR, followed by two-steps PCR. 3. Used to place samples to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements. <p>State the shelf life of item.</p>	5 BOXES/ CARTON	1 CARTON

NO.	ITEM DESCRIPTIONS AND SPECIFICATIONS	PACKAGING SIZE	TOTAL ESTIMATE USAGE /YEAR
18	<p>ATOPlex SARS-CoV-2 Software Analysis Package, 100 Reports/Package</p> <p>1. For IGVD result analysis.</p> <p>State the shelf life of item.</p>	<p>100 REPORTS/ PACKAGE</p>	<p>20 PACKAGE (2000 REPORTS)</p>
19	<p>EQA Programme</p> <p>1. Includes: i) SARS-CoV-2 Sequencing EQA (GenQA)</p> <p>2. Intended for SARS-CoV-2 Sequencing EQA</p> <p>State the shelf life of item.</p>	<p>12 CYCLES/ PROGRAMME</p>	<p>1 PROGRAMME</p>

NO.	SPECIFICATIONS AND REQUIREMENTS
1	All reagent test kits / consumables supplied throughout this tender shall have a minimum expiry date of twelve (12) months on delivery . Should the reagent or consumable be urgently needed, provision of a reagent test kit or consumable with expiry date of less than twelve (12) months should be first agreed by the User of the particular laboratory before delivery is made.
2	Letter of Undertaking (LOU) shall be produced upon each delivery of test kit or consumable with expiry date of less than twelve (12) 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.
3	Staggered delivery every 3 months period directly to the User.
4	Product inserts and MSDS shall be provided to the User, for all reagent kits and consumables.
5	The reagents and consumables above must be compatible with the analyzer, Model: DNBSEQ-G50, Brand: MGI .
6	Any defect and contaminations occurring along the line should be replaced by the next shipment or at the earliest shipment possible. 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
7	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 1 calculated from delivery date 4. Leakage upon delivery
8	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	Buffer stock of the test kit including reagents, consumables and accessories should be available at the local representative as contingency.
10	Vendor to perform validation/verification study of the test kit if required and provide the report before the kit can be used.
11	Vendor to bear the costs of all reagents and/or consumables used to perform validation/verification study.
12	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.
13	Vendor shall provide Certificate of Analysis (CoA) for all the reagent kits and/or consumables.
14	TRAINING Training shall be provided, at no additional cost, as follows:
14.1	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.

NO.	SPECIFICATIONS AND REQUIREMENTS
14.2	Certificate of competence is to be issued to all trainees after completion of training.
14.3	The successful tenderer needs to ensure the key users are updated on any relevant information related to the laboratory testing. They shall provide TWO off-site training for two (2) key users. All expenses for attending the training shall be borne by the vendor; full registration, air ticket, daily allowance, accommodation, transport to and from the airport and place of training. Training may be in the form of operator's training, workshop, congress, international conference including 3rd-party conference, or other forms of training that is deemed appropriate and relevant.
14.4	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.
15	FINANCIAL AGREEMENT
15.1	Supply of the test kit including reagents, consumables and/or accessories is based on the number of kits required in the Purchase Order according to an agreed schedule period as stated in para 2.
15.2	Buffer stock of the test kit including reagents, consumables and accessories shall be available at the local representative as contingency.
15.3	Should there be any discontinuity of reagents / consumables due to non-compliance in the manufacturing of reagents; the vendor must be able to provide an alternative so that the test requests / services are still available for the customers.
15.4	EXIT CLAUSE: 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 the 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>).
16	DELIVERY PERIOD: Preferably 4 – 8 weeks and no later than 12 weeks after issue of Purchase Order
17	PRICE VALIDITY: 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).

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

DELIVERY PERIOD AFTER PO ISSUED	4-8 weeks and no longer than 12 weeks	
Lab/Section/Unit	MICROBIAL GENOMICS SERVICES	
Lab/Section/Unit Ref No.:	DLS/PU/MGS/2024/A50K/01_REAGCONCOV2	
Person to Contact	Name	: DR MUHD HAZIQ FIKRY HJ ABDUL MOMIN
	E-mail	: HAZIQ.MOMIN@MOH.GOV.BN
	Tel. No.	: 2242424 ext. Fax No. : 2220869
FOR ADMINISTRATION USE ONLY		
PPM/PROC Ref. No.	PPM/PROC/2024/>50K/006(MGS)	
Advertisement Ref. No.		Date :

SECTION 3
FORMS TO BE USED

CONTENTS

SCHEDULE 1 - TENDER FORM

SCHEDULE 2 - INFORMATION SUMMARY

SCHEDULE 3 - SUB-CONTRACTS

SCHEDULE 4 - COMPANY BACKGROUND

SCHEDULE 5 - REFERENCES

SCHEDULE 6 - SUBMISSION OF SAMPLE

SCHEDULE 7 - LETTER OF DECLARATION

SCHEDULE 1

TENDER FORM

To:

TENDER REFERENCE NO: KK/85/2024/LAB(TC)

INVITATION TO TENDER

TO SUPPLY AND DELIVER SARS-COV-2 SEQUENCING LABORATORY REAGENTS AND CONSUMABLES FOR COVID-19 SURVEILLANCE AND COVID-19 SEQUENCING EQA PROGRAMME FOR MICROBIAL GENOMICS SERVICES, DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH FOR A PERIOD OF THREE (3) YEARS USAGE

TENDER OF (*name of tenderer*) _____

Company/Business Registration No _____

Tender Closing Date _____

DELIVERY PERIOD	
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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	ATOPlex RNA Universal Library Prep Set, 96 RXN Components: 1. ATOPlex RNA Universal Library Prep Module - to be used for the mastermix preparation of the Reverse Transcriptase (conversion	96 RXN/SET	20 SETS						

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\$)
	<p>of viral RNA to cDNA), 1st PCR (Viral genome and target region amplification), and 2nd PCR (Target region enrichment and adapter ligation)</p> <p>2. Internal Control Primer Pool (96 RXN) - contained the primer required for the amplification of the targeted region in the two-step's PCR</p> <p>3. ATOplex Dual Barcode Primer Module (01-96) - used to construct dual barcodes which help to reduce the ratio of barcode crosstalk and error rate. The barcode is unique for each sample.</p> <p>4. ATOplex Dual Barcode Balanced Library Reagent - The complexity of ATOplex libraries is low, which can cause the separation of certain bases and affect the accuracy of base calling. Therefore, the addition of</p>								

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\$)
	<p>a mixed balanced library for sequencing is required. The mixed balanced library must be dual barcoded (ATOPlex Dual Barcode Balance Library Reagent), added according to the DNB amount and the mixing ratio between the ATOPlex library and balanced library should be 3:1.</p> <p>State the shelf life of item.</p>								
2	<p>Dual Barcode Circularization Kit, 16 RXN</p> <p>Components:</p> <p>1. DNA Clean Beads, 3.2ml – Used for purification and size selection of DNA samples. Used for the preparation of pooled samples and clean-up of digestion products. DNA products more than 100bp in length are efficiently recovered. Compatible with a variety of vendors DNA and RNA library</p>	16RXN/KIT	3 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\$)
	<p>construction kits.</p> <p>2. Dual Barcode Circularization Module - A module library prep kit designed for high-throughput sequencing platform. Used to prepare a single-stranded circular DNA library from PCR products. Used for the denaturation, single-stranded circularization and enzymatic digestion of pooled samples.</p> <p>State the shelf life of item.</p>								
3	<p>DNBSEQ-G50RS High-throughput Sequencing Set with FCL 100 and PE100, 100G, Per Set</p> <p>Components consisting:</p> <p>1. DNBSEQ-G50RS Sequencing Flow Cell - It is a photolithographic nano flow cell, with surface nano-slot patterned distribution. Act as a channel for adsorbing mobile DNA fragments and a core sequencing reactor vessel.</p>	96 RXN/SET	20 SETS						

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\$)
	<p>2. DNBSEQ-G50RS High-throughput Sequencing Kit FCL PE100/FCS PE150 - Contained the cartridge as well as reagents to be used for the preparation of DNB and sequencing.</p> <p>State the shelf life of item.</p>								
4	<p>cPAS Barcode Primer 3 Reagent Kit</p> <p>1. 1µM AD153 Barcode Primer 3</p> <p>2. Act as primer for pair-end sequencing.</p> <p>State the shelf life of item.</p>	2 RXN/KIT	10 KITS						
5	<p>dsDNA HS Assay Kit, per kit, 500 assays, 0.2-100ng</p> <p>1. 500 assays, 0.2-100ng, Detection Method: Fluorescent</p> <p>2. Used to quantify the purified 2nd PCR products, and pooled products compatible with Qubit™ 4 Fluorometer</p>	500 ASSAYS/ KIT	2 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\$)
	<p>3. Products required a concentration of more than 4 ng/uL, and 400 ng respectively in order to meet the sequencing requirements.</p> <p>State the shelf life of item.</p>								
6	<p>ssDNA Assay Kit, per kit, 100 assays, 1-200ng</p> <p>1. 100 assays, 1-200ng, Detection Method: Fluorescent</p> <p>2. Used to quantify the purified Enzymatic Digestion product and DNB compatible with Qubit™ 4 Fluorometer</p> <p>3. Products required a concentration of more than 10 ng and 8ng/uL respectively in order to meet the sequencing requirements.</p> <p>State the shelf life of item.</p>	100 ASSAYS/ KIT	1 KIT						
7	<p>BiOptic Standard Cartridge Kit (Qsep400-4-Channel Use) (S2) S2-Standard Cartridge *1, (800 runs/4-</p>	2 CARTRIDGE/KIT	3 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\$)
	<p>Channel Cartridge) with Buffer and Standard Alignment Marker, 2 Cartridges/Kit.</p> <ol style="list-style-type: none"> 1. Standard Cartridge (S2), 4-Channel Cartridge 2. Size range: 10-5,000bp; L.O.D: 0.1 ng/uL or 2 pg/uL in water; Best Resolution: 4-10bp 3. Analytic Times (per run): 2~3 mins; Sample Number (per cartridge): 200 runs 4. Sample consumption (per cartridge): <0.1 uL; Recommended Sample Volume: 0.1 mL tube: 10 uL or 0.2 mL tube: 20 uL or Microvial: 1~2 uL 5. Used to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements. 								

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\$)
	State the shelf life of item.								
8	<p>Size Marker, Standard 50bp Ladder</p> <p>1. Compatible to be used with BiOptic Standard Cartridge Kit (Qsep400-4-Channel Use) (S2)</p> <p>2. Used to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements.</p> <p>State the shelf life of item.</p>	500µL/ KIT	3 KITS						
9	<p>Ethanol Absolute, undenatured, 100% (200 proof), Molecular Biology Grade, 500ml/bottle</p> <p>1. Used to make 80% Ethanol for clean-up of 1st PCR, 2nd PCR and Enzymatic Digestion.</p> <p>State the shelf life of item.</p>	500ML/ BOTTLE	3 BOTTLES						
10	<p>Tween 20 Surfact Amps Detergent Solution, 500ml/bottle</p>	500ML/ BOTTLE	1 BOTTLE						

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. Used for DNBSEQ-G50 Sequencer maintenance washing. State the shelf life of item.								
11	Sodium Hydroxide 2N, 1000ml/bottle 1. Used for DNBSEQ-G50 Sequencer maintenance washing. State the shelf life of item.	1000ML/ BOTTLE	1 BOTTLE						
12	Sodium Chloride 5M, 1000ml/bottle 1. Used for DNBSEQ-G50 Sequencer maintenance washing State the shelf life of item.	1000ML/ BOTTLE	1 BOTTLE						
13	RNase Away Reagent, 250ml/bottle 1. RNase AWAY® Reagent is a ready-to-use solution for eliminating RNase contamination from labware. State the shelf life of item.	250ML/ BOTTLE	4 BOTTLES						
14	1-100uL Filter Tips, Yellow, DNase/RNase Free, Sterile,	50 RACKS/ CASE	4 CASES						

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\$)
	<p>Rack Pack, 96/Rack, 50 Racks/Case</p> <p>1. Minimum volume of 1uL, Maximum volume of 100uL, Filter Tips.</p> <p>2. Required filter pipette tips because without filter increase the risk of cross-contamination of different samples.</p> <p>3. Used to clean up of 1st and 2nd PCR Products</p> <p>4. Used to transfer samples and master mix for volume 100uL or lower.</p> <p>State the shelf life of item.</p>								
15	<p>100-1000uL Filter Tips, Blue, DNase/RNase Free, Sterile, Rack Pack, 96/Rack, 50 Racks/Case</p> <p>1. Minimum volume of 100uL Maximum volume of 1000ul, Filter Tips.</p> <p>2. Required filter pipette tips because without filter increase risk of cross-</p>	50 RACKS/ CASE	1 CASE						

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\$)
	<p>contamination of different samples.</p> <p>3. Used mostly for the clean-up of Enzymatic Digestion Products.</p> <p>4. Used for preparation of reagent cartridge and washing cartridge.</p> <p>5. Used to transfer samples and master mix for volume 1000uL or lower.</p> <p>State the shelf life of item.</p>								
16	<p>Assay Tubes, 500 Tubes/Pack</p> <p>1. Maximum volume of 500µL, thin-walled polypropylene tubes</p> <p>2. Used to quantify the purified 2nd PCR products, pooled products, enzymatic digestion products and DNB compatible with Qubit™ 4 Fluorometer</p> <p>3. Products required a concentration of more</p>	500 TUBES/ PACK	1 PACK						

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\$)
	<p>than 4 ng/uL, 400 ng, 10 ng and 8 ng/uL respectively in order to meet the sequencing requirements.</p> <p>State the shelf life of item.</p>								
17	<p>96-well qPCR Plates, 0.2ml Non-skirted, Clear, Cut Corner, H1, 10 Pieces/Box, 5 Boxes/Carton</p> <ol style="list-style-type: none"> Maximum volume of 0.2ml Used to place 96 samples to be run Reverse Transcriptase PCR, followed by two-steps PCR. Used to place samples to determine the fragment size distribution of purified 2nd PCR Products with Qsep400. Products required size fragments of ~300 bp to meet sequencing requirements. <p>State the shelf life of item.</p>	5 BOXES/ CARTON	1 CARTON						
18	ATOPlex SARS-CoV-2 Software Analysis Package, 100 Reports/Package	100 REPORTS/ PACKAGE	20 PACKAGE (2000 REPORTS)						

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. For IGVD result analysis. State the shelf life of item.								
19	EQA Programme 1. Includes: i) SARS-CoV-2 Sequencing EQA (GenQA) 2. Intended for SARS-CoV-2 Sequencing EQA State the shelf life of item.	12 CYCLES/ PROGRAMME	1 PROGRAMME						
TOTAL PRICE (B\$)									

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
1	All reagent test kits / consumables supplied throughout this tender shall have a minimum expiry date of twelve (12) months on delivery . Should the reagent or consumable be urgently needed, provision of a reagent test kit or consumable with expiry date of less than twelve (12) months should be first agreed by the User of the particular laboratory before delivery is made.	
2	Letter of Undertaking (LOU) shall be produced upon each delivery of test kit or consumable with expiry date of less than twelve (12) 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.	
3	Staggered delivery every 3 months period directly to the User.	
4	Product inserts and MSDS shall be provided to the User, for all reagent kits and consumables.	
5	The reagents and consumables above must be compatible with the analyzer, Model: DNBSEQ-G50, Brand: MGI.	
6	<p>Any defect and contaminations occurring along the line should be replaced by the next shipment or at the earliest shipment possible.</p> <p>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:</p> <ol style="list-style-type: none"> 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 	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
7	<p>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:</p> <ol style="list-style-type: none"> 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 1 calculated from delivery date 4. Leakage upon delivery 	
8	<p>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.</p>	
9	<p>Buffer stock of the test kit including reagents, consumables and accessories should be available at the local representative as contingency.</p>	
10	<p>Vendor to perform validation/verification study of the test kit if required and provide the report before the kit can be used.</p>	
11	<p>Vendor to bear the costs of all reagents and/or consumables used to perform validation/verification study.</p>	
12	<p>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.</p>	
13	<p>Vendor shall provide Certificate of Analysis (CoA) for all the reagent kits and/or consumables.</p>	
14	<p>TRAINING Training shall be provided, at no additional cost, as follows:</p>	
14.1	<p>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.</p>	
14.2	<p>Certificate of competence is to be issued to all trainees after completion of training.</p>	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
14.3	The successful tenderer needs to ensure the key users are updated on any relevant information related to the laboratory testing. They shall provide TWO off-site training for two (2) key users. All expenses for attending the training shall be borne by the vendor; full registration, air ticket, daily allowance, accommodation, transport to and from the airport and place of training. Training may be in the form of operator's training, workshop, congress, international conference including 3rd-party conference, or other forms of training that is deemed appropriate and relevant.	
14.4	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.	
15	FINANCIAL AGREEMENT	
15.1	Supply of the test kit including reagents, consumables and/or accessories is based on the number of kits required in the Purchase Order according to an agreed schedule period as stated in para 2.	
15.2	Buffer stock of the test kit including reagents, consumables and accessories shall be available at the local representative as contingency.	
15.3	Should there be any discontinuity of reagents / consumables due to non-compliance in the manufacturing of reagents; the vendor must be able to provide an alternative so that the test requests / services are still available for the customers.	
15.4	EXIT CLAUSE: 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 the 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>).	

NO.	SPECIFICATIONS AND REQUIREMENTS	VENDOR'S OFFER (PLEASE STATE)
16	DELIVERY PERIOD: Preferably 4 – 8 weeks and no later than 12 weeks after issue of Purchase Order	(Yes / No) (If No, please specify)
17	PRICE VALIDITY: 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).	

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

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:

SCHEDULE 2 - INFORMATION SUMMARY

2.1 Tenderers shall provide in this Schedule the following information:

- (a) Management summary
- (b) Company profile (including Contractor and sub-contractor(s), if any)
- (c) Years of experience (as of the Tender Closing Date) of the Contractor and sub-contractor(s) in the:
 - *Supply & Delivery Of Laboratory Equipment, Test Kits and Consumables.*
- (d) Other information which is considered relevant

SCHEDULE 3 – SUB-CONTRACTS

- 3.1 Tenderers shall complete Table 3.1 with information about all the companies involved in the provision of the services and items specified in this tender. This shall include details about the Contractor and each sub-contractor involved, as well as their respective responsibilities.
- 3.2 Tenderers shall also indicate in Table 3.1 any alliance relationship established with each sub-contractor. An alliance is defined as a formal and binding business relationship between the allied parties.

Table 3.1 Responsibility Table

Company Name	Responsibility Description	Alliance Relationship between Contractor and Sub-contractor(s)		
		Alliance Exists? (Y/N)	Date Established	Alliance Description
Contractor				
		Not Applicable	Not Applicable	Not Applicable
Sub-contractor(s)				

SCHEDULE 4 – COMPANY’S BACKGROUND

- 4.1 Each of the companies involved in this tender, including Contractor and sub-contractor(s) (if any), shall provide information on the company's background, scope of operations, financial standing and certified copy of its Certificate of Incorporation or Certificate of Registration (as the case may be).

SCHEDULE 5 – REFERENCES

- 5.1 Tenderers shall submit a list of customers in Table 5.1 to whom the Contractor has provided similar services and items as specified in this tender in the recent 5 years as of the Tender Closing Date.

Table 5.1 References of previous customers

Customer Name and Address	Customer Type (Govt or Quasi Govt)*	Contact Person	Title	Contact Number, Fax Number and E-mail Address

***Note: Tenderers shall indicate whether the customer is a Government or Quasi Government organisation. A Quasi Government is defined as an organisation which (1) is managed and controlled by the Government; or (2) has at least 50% shares being held by the Government. Please leave the column blank if the customer is neither a Government or Quasi Government organisation.**

- 5.2 The Ministry of Health shall treat all the information submitted under this schedule in strict confidence.
- 5.3 The Ministry of Health reserves the right to contact the references for tender assessment purposes.

SCHEDULE 6 - SUBMISSION OF SAMPLE

- 6.1 Tenderers shall submit the Submission of Sample form below in respect of the items specified in this tender.
- 6.2 Samples of the items to be submitted shall be:
 - a) identical in packing and manufacture to the items to be offered by the Tenderer; and
 - b) marked with the corresponding item number of the tender.

SUBMISSION OF SAMPLE FORM

To:

TENDER REFERENCE NO: KK/85/2024/LAB(TC)

INVITATION TO TENDER

TO SUPPLY AND DELIVER SARS-COV-2 SEQUENCING LABORATORY REAGENTS AND CONSUMABLES FOR COVID-19 SURVEILLANCE AND COVID-19 SEQUENCING EQA PROGRAMME FOR MICROBIAL GENOMICS SERVICES, DEPARTMENT OF LABORATORY SERVICES, MINISTRY OF HEALTH FOR A PERIOD OF THREE (3) YEARS USAGE

SUBMISSION OF SAMPLE FORM OF (NAME OF TENDERER)

NO.	TEST/REAGENT NAME	SAMPLE SUBMITTED (indicate with ✓)	SAMPLE NOT SUBMITTED (indicate with X)	OFFERED/ NOT OFFERED (indicate as appropriate)
1	ATOPlex RNA Universal Library Prep Set, 96 RXN			
2	Dual Barcode Circularization Kit, 16 RXN			
3	DNBSEQ-G50RS High-throughput Sequencing Set with FCL 100 and PE100, 100G, Per Set			
4	cPAS Barcode Primer 3 Reagent Kit			
5	dsDNA HS Assay Kit, per kit, 500 assays, 0.2-100ng			
6	ssDNA Assay Kit, per kit, 100 assays, 1-200ng			
7	BiOptic Standard Cartridge Kit (Qsep400-4-Channel Use) (S2) S2-Standard Cartridge *1, (800 runs/4-Channel Cartridge) with Buffer and Standard Alignment Marker, 2 Cartridges/Kit.			
8	Size Marker, Standard 50bp Ladder			
9	Ethanol Absolute, undenatured, 100% (200 proof), Molecular Biology Grade, 500ml/bottle			
10	Tween 20 Surfact Amps Detergent Solution, 500ml/bottle			
11	Sodium Hydroxide 2N, 1000ml/bottle			
12	Sodium Chloride 5M, 1000ml/bottle			
13	RNase Away Reagent, 250ml/bottle			

NO.	TEST/REAGENT NAME	SAMPLE SUBMITTED (indicate with ✓)	SAMPLE NOT SUBMITTED (indicate with X)	OFFERED/ NOT OFFERED (indicate as appropriate)
14	1-100uL Filter Tips, Yellow, DNase/RNase Free, Sterile, Rack Pack, 96/Rack, 50 Racks/Case			
15	100-1000uL Filter Tips, Blue, DNase/RNase Free, Sterile, Rack Pack, 96/Rack, 50 Racks/Case			
16	Assay Tubes, 500 Tubes/Pack			
17	96-well qPCR Plates, 0.2ml Non-skirted, Clear, Cut Corner, H1, 10 Pieces/Box, 5 Boxes/Carton			
18	ATOPlex SARS-CoV-2 Software Analysis Package, 100 Reports/Package			
19	EQA Programme			

We understand as stated in the Instructions to Tenderers that Tenders without samples shall not be considered.

Tenderer's official stamp:

[signature of authorized officer of Tenderer]

Name:

Designation:

Date:

FOR OFFICE USE

Date of receipt : _____

Receiving Officer : _____