



RÉSEAU SEGA
ONE HEALTH



COMMISSION DE
L'OcéAN INDIEN

Ile Maurice – Mauritius

Session 2, CTR 2023

Equipment procurement and Maintenance



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- Procurement
- Evaluation
- Recommendation
- Monitor / Follow up

Central Health Laboratory, Victoria Hospital, Candos.

Molecular Biology Department. chlmolecularbiology@gmail.com



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- Maintenance criteria
- Type of maintenance
- BME / Lab Feedback to HQ MOH for renewals
- Finance / Budget



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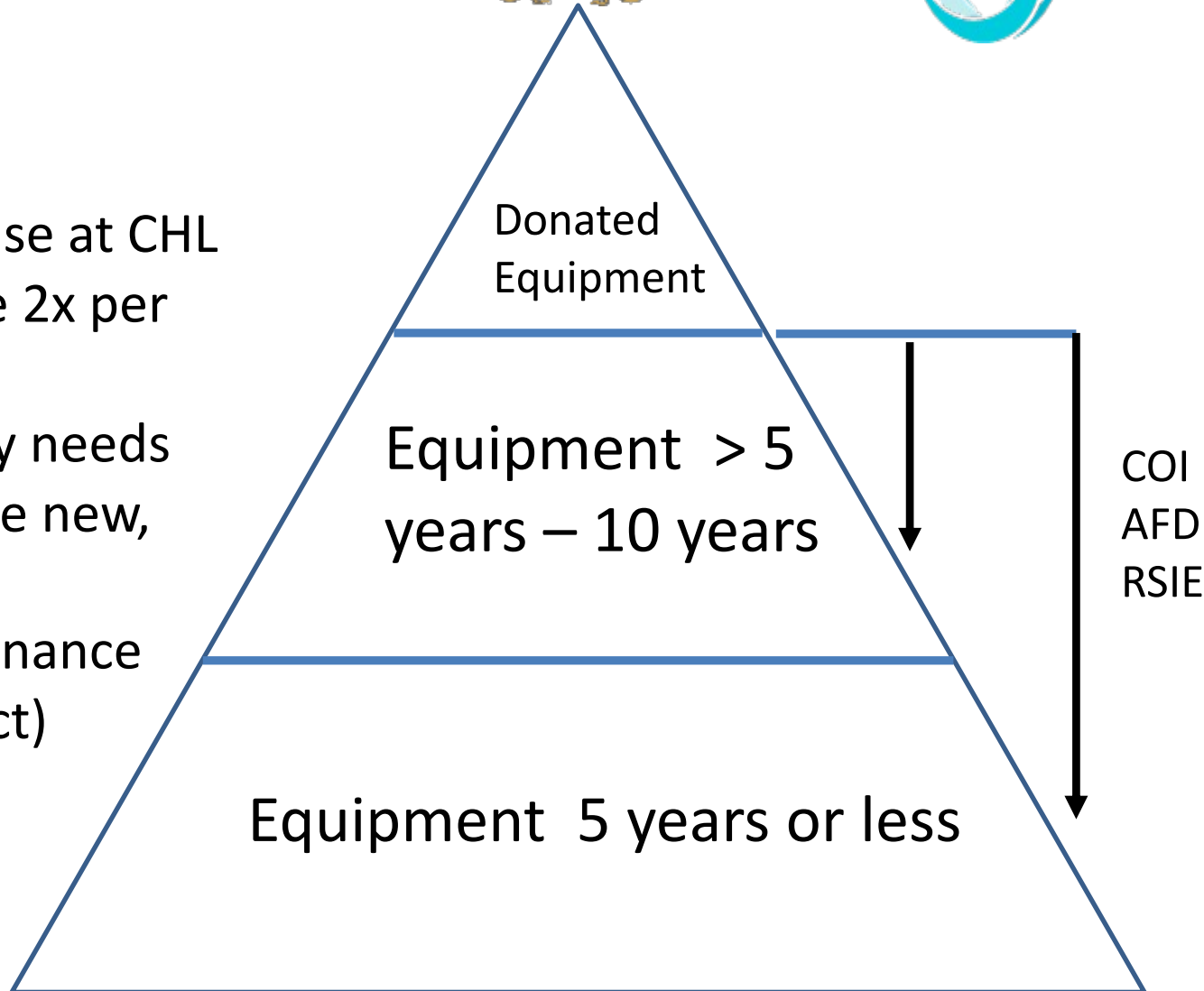


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Types of maintenance

- Biomedical Engineer, in hospital
- Local suppliers / representatives
 - ❖ good in-house field service engineers (FSE)
 - ❖ Locally trained or sent to train with manufacturer by supplier
 - No in-house FSE
 - Good support from manufacturer
 - Remote diagnostic / trouble shooting (NBTS, Virology, Molecular Biology)
 - Good internet access

- Database at CHL
- Update 2x per year
- Identify needs (acquire new, renew maintenance contract)





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Molecular Biology Central Health Laboratory – Candos

Capital Expenditure 2022- 2023

Specifications of Biomedical Equipment

Item: **Benchmark Next Generation Sequencing (NGS) system with automated library making equipment with a minimum warranty period of 2 years.**

Quantity: ONE Unit sequencer and ONE unit library maker / templating / chip loading.

Estimated cost per system: Rs 10,000,000 excl. VAT

1. To be used in Molecular biology Department.
2. Description of item required
 - 2.1 To quote latest model semi-conductor and chip-based Next Generation Sequencer. Instrument should not require inert gas systems.
 - 2.2 Instrument designed for simple, fast, and automated workflow for targeted sequencing with hands-on time below 60 minutes...
 - 2.3 To be used for broad range of applications such as cancer diagnosis and typing, inherited disease and microbial research.
3. Specifications
 - 3.1 Bidder to specify Make and Model and provide original Manufacturer certified brochure including full technical specifications.
 - 3.2 Consumables (plastic wares) must be compatible with existing ion torrent system and ~~unconventional~~ focus assays.
 - 3.3 Cartridge-based reagents and user-friendly interface.
 - 3.4 Capable of fast NGS runs – Nucleic acid to variants in just two 8-hour working days.
 - 3.5 Fully automated library making; walk-away amplification and chip loading.
 - 3.6 Capable of high uniformity of coverage and accurate variant detection.
 - 3.7 Equipment must have simple optics and use simple polymerase mediated chemistry
 - 3.8 Capable of producing high quality data, and high sample throughput for targeted sequencing.
 - 3.9 Capable of long read lengths (2-4M reads).
 - 3.10 Should be delivered with a PC, with at least a Core i7 processor, minimum 4GB RAM, 1TB HDD, DVD RW Drive, at least 20" LCD Monitor, with the latest system and application software; supplied with 3 kVA uninterrupted power supply (UPS).
 - 3.11 The make and Model of both PC and UPS should be submitted.
 - 3.12 Equipment must be delivered with all instrument specific operating software for data analysis.
 - 3.13 Certificate of conformity to be supplied.
4. Further information
 - 4.1 ISO 13485:2016 Standard compliant: quality management system specific to the medical devices industry.
 - 4.2 At least two year warranty.
 - 4.3 ~~Post-warranty~~ 5 Years maintenance contract (Including labour).
 - 4.4 On-site training must be supplied with a follow up with users after six months
 - 4.5 To supply user and service manuals (three copies) at the time of commissioning
5. Local mains electricity supply
 - 5.1 Voltage: 230 V ± 6% Local current frequency: 50 Hz ± 1.5 %
 - 5.2 Should meet Internationally recognised standards of safety compliance and CE conformity – IVDU 98/79/EC
 - 5.3 Must be supplied with a single unit BS 1363 UK power cord.

Information certified by:			
Name	Name	Name	Name
Signature	Signature	Signature	Signature
Biomedical Engineer	Electrical Engineer (ESD)	CMLT	PMLT MGI Bio

Date: 29-03-2022 Transmitted by: Dr J. Soojoo (Director Laboratory Services)

The request

Includes:

- Broad specifications
- Compatibility with existing reagent in use if required
- Two year extended warranty
- 5 years maintenance post warranty
- Voltage and plug type
- on-site training

Central Health Laboratory, Victoria Hospital, Candos.

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Attention :- Mr Ranjiv

L 105



MINISTRY OF HEALTH AND WELLNESS

MHPDO/EQ/2020-2021/DO 56

29 January 2021



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The award

Dear Sir,

**Supply, Installation and Commissioning of Laboratory Equipment
for Central Health Laboratory and other Laboratories**

Please refer to our notification letter dated 11 January 2021 and your offer dated 29 July 2020 in response to our invitation for bids, (Ref: MHPQ/EQ/2019-2020/Q76) dated 28 May 2020.

2. We wish to inform you that your offer for the Supply, Installation and Commissioning of Laboratory Equipment as per Annex A for the total amount of Rs 15,412,440.00 (Rupees Fifteen million four hundred and twelve thousand four hundred and forty only), inclusive of all applicable charges, duties and taxes and exclusive of VAT, subject to the specifications, terms and conditions of the bidding documents, has been approved.
3. As per clause "Terms of Payment" in SCC 16.4(b) of the Bidding documents, any increase/decrease resulting from a fluctuation in the rate of exchange will be adjusted accordingly by the Ministry.
4. The equipment should be delivered within eight (8) to twelve (12) weeks as from the date of this Letter of Award, to the Assistant Manager Procurement and Supply of the respective hospitals and Central Health Laboratory.
5. Warranty shall be provided for a period of two (2) years for Item Nos. 2, 4, 5, 6, 7, 10, 11, 15, 19 and five (5) years for Item No. 8 as from the date of successful commissioning of the equipment.



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**Supply, Installation and Commissioning of Laboratory Equipment
for Central Health Laboratory and other Laboratories**

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← REFERENCE

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← TERMS AND
CONDITIONS,
WARRANTY

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DISTRIBUTION LIST

Item No.	Item	Quantity	Location	Site
2.	Fully Automated Blood Cell Counter	3	Mediclinic	Plaine Verte
			Haematology	Mahebourg Hospital
			Haematology	Souillac Hospital
4.	Electrophoresis Equipment	1	Haematology	Central Health Laboratory
5.	Platelet Aggregometer	1	Haematology	Central Health Laboratory
6.	Clinical Chemistry Analyser (1500-2000 tests/hr)	2	Biochemistry	Central Health Laboratory
			Biochemistry	Dr A.G. Jeetoo Hospital
7.	Heavy Duty Bench Top Centrifuge	4	Biochemistry (2)	Central Health Laboratory
			NBTS (1)	Central Health Laboratory
			SSRNH (1)	SSRNH
8.	Fume Cabinet (Hood)	2	Biochemistry	Central Health Laboratory
			SSRNH	SSRNH
10.	Clinical Chemistry Analyser (500-700 tests/hr)	3	Laboratory	Souillac Hospital
			Laboratory	Mahebourg Hospital
			Mediclinic	Plaine Verte
11.	Distilled Water Unit	1	Laboratory	SSRN Hospital
15.	Platelets Incubator/Agitator	1	J. Nehru Hospital	J. Nehru Hospital
19.	Thermal Cycler Real Time PCR	2	Molecular Biology	Central Health Laboratory

(Signature)



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ANNEX TO LETTER OF ACCEPTANCE: MHPDO/EQ/2020-2021/DO 56					
<u>Supply, Installation and Commissioning of Laboratory Equipment</u>					
<u>for Central Health Laboratory and other Laboratories</u>					
Item No	Description	Quantity (Unit)	Rate (Rs)	Delivery	Total Amount (excl. VAT) (Rs)
8	Fume Cabinet (Hood) Make: Air Science Model: P5-24xT Origin: USA	2	125,040.00	AS PER ANNEX B	250,080.00
10	Clinical Chemistry Analyser (500-700 tests/hr) Make: Abbott Model: Architect c4000 Origin: Japan (Manufactured under licence by Toshiba)	3	600,000.00		1,800,000.00
11	Distilled Water Unit Make: Stuart / Cole Parmer Model: Aquatron/A8000 Origin: Europe/China/Singapore	1	217,580.00		217,580.00
15	Platelets Incubator / Agitator Make: LMB Technologie GmbH Model: Thrombocyte Climatic Chamber Cllmax 100 Origin: Germany/EU	1	395,500.00		395,500.00
19	Thermal Cycler Real Time PCR Make: Thermo Fisher Scientific/Life Technologies / Applied Biosystem Model: QuantStudio5 Origin: Singapore/USA/Europe	2	2,400,500.00		4,800,000.00

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12. You are requested to submit within twenty-eight (28) days as from the date of this letter, a Performance Security representing 10% of the contract value for Item Nos. 2, 4, 5, 6, 7, 10, 11, 15, 19 and another Performance Security representing 10% of the contract value for Item No. 8 in the form of a Bank Guarantee issued by a Commercial Bank operating in Mauritius. The securities should be valid for a period of twenty eight (28) days beyond the warranty period which takes effect after the commissioning of the equipment and should be submitted to the **Registry Section, Procurement Unit, Ministry of Health and Wellness, 10th Floor Emmanuel Anquetil Building, Port Louis**. In the event of delay in the delivery and / or commissioning of the equipment, you shall agree to an extension of this Security for a period of twenty-eight (28) days following the date of completion of your performance obligations under the Contract. Failure to submit the required Performance Securities within the prescribed time limit shall result in an automatic cancellation of the Award.



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Period	Calibration Plates), Rs
	Item No. 19 (2 units)
Year 1	200,000.00
Year 2	220,000.00
Year 3	240,000.00
Year 4	260,000.00
Year 5	280,000.00
Total Cost of Maintenance for 5 years Exclusive of VAT-Labour and Instrument Calibration Plates (Rs)	1,200,000.00

7. The installation and commissioning certificate must be signed by the User Department, the Biomedical Unit/Surgical Technologist/Representative of the ESD and your Representative.
8. Liquidated damages for any delay will be charged at the rate of 0.5% of the value of undelivered goods to the Ministry for each week that delivery is delayed up to a maximum of 5% of the value of the undelivered goods, after which the contract shall be considered as terminated.
9. You should provide free of charge, local training for the proper operation of the equipment, to the User/Technical Staff as per the conditions of your offer. The venue of the local training would be the site of the Department where the equipment will be installed.

Central Health Laboratory, Victoria Hospital, Candos.

Molecular Biology Department. chl.molecularbiology@gmail.com



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Department of Molecular Biology – Central Health Laboratory

chlmolecularbiology@gmail.com

Tel: 424-6375, Ext 3587

Date: July 13, 2023

To: The Senior Chief Executive

Through: Director Laboratory Services

Through: Chief Medical Laboratory Technologist

Attention: AMPS, Central Health Laboratory Stores

Our REF: 2023-07-13 Maintenance initiate_ION S5_CHEF_MHPDO_EQ_2020-2021_DO44_GR_AMPS

RE: Initiate Planned preventive maintenance and repairs of ION Torrent S5 Sequencing system at Molecular Biology Department (Initial Year 1)

Dear Sir / Madam,

According to our records, **year one** of the maintenance contract for equipment Ion torrent S5 (SN 277 492 012 0626) Chef (SN 242 472 111) sequencing system is **due** for initiation. The equipment is heavily used during COVID and for human genomics, and now we have been able to decontaminate the apparatus and it is safe for maintenance engineers to handle.

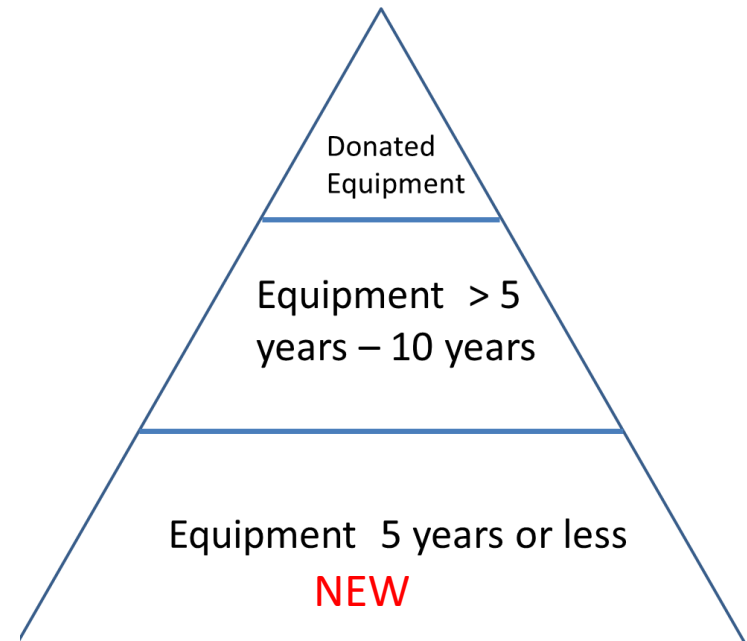
The supplier must provide all necessary plates needed for the calibration within the maintenance contract.

We would be grateful if you kindly take necessary actions to launch the renewal.

Please find below additional information that may be of help:

Supplier: Equipment: Ion Torrent S5 Chef system, NGS, acquired 31 December 2020, installed 2021, warranty for period of two (2) years as from the date of commissioning has lapsed. The maintenance through the period 2021-2023 has been to our satisfaction

Year 1 (Rs 120,000) maintenance to initiate for MHPDO/EQ/2020-2021/DO44 as per award.



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Period	Calibration Plates), Rs
	Item No. 19 (2 units)
Year 1	200,000.00
Year 2	220,000.00
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Year 4	260,000.00
Year 5	280,000.00
Total Cost of Maintenance for 5 years Exclusive of VAT-Labour and Instrument Calibration Plates (Rs)	1,200,000.00

7. The installation and commissioning certificate must be signed by the User Department, the Biomedical Unit/Surgical Technologist/Representative of the ESD and your Representative.

8. Liquidated damages for any delay will be charged at the rate of 0.5% of the value of undelivered goods to the Ministry for each week that delivery is delayed up to a maximum of 5% of the value of the undelivered goods, after which the contract shall be considered as terminated.

9. You should provide free of charge, local training for the proper operation of the equipment, to the User/Technical Staff as per the conditions of your offer. The venue of the local training would be the site of the Department where the equipment will be installed.

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L86

Ref: CHL/MT 46/MB/2022-23 /DO/1

Date: 24 February, 2023

Dear Sir,

**Supply Installation and Commissioning of Bench Top Thermal Cycler
(Year 1)**

Please refer to the letter of award MHPDO/NP/EQ/2019-2020 /DO 34 dated 02 August 2019 on the above subject.

2. We wish to inform you that your offer for the **Maintenance and Repairs for Two (2) Bench Top Thermal Cycler Equipment** located at the **Molecular Biology Department** of the Central Health Laboratory for the total amount of **Rs.160,000.00 (Rupees- one hundred and sixty Thousand only)** on **Labour & Spare Parts (including Maintenance Kit) Contract** basis inclusive of VAT and all applicable charges for year 1 subject to the same terms and conditions of the bidding documents, has been approved.

Item No.	Brief Description of Works	Qty	Unit Price (RS) (incl. VAT)	Total Price (RS) (incl. VA)
1.	(Year 1) Labour & Spare Parts Contract (including maintenance kit) for Planned Preventive Maintenance, Servicing and Repairs (on a quarterly basis) as per Scope of Works, Maintenance Schedule, General Conditions and Maintenance Checklist, as recommended in the Technical/Service Manual for routine maintenance, of: Bench Top Thermal Cycler Make: Applied Biosystems/Thermo Fisher Scientific /Life Technologies Model: Quant studio 3 Serial No: 272311862 & 272311761 <i>(Nick)</i> <i>(Mini)</i>	2	80,000-	160,000
TOTAL				160,000

MC Expires Dec 23

You will have to maintain the equipment for the first year on a **quarterly basis** and subject satisfactory servicing and maintenance of the equipment, the contract may be renewed on a yearly basis, for a further period of four years.

4. The contract should be valid for one year and effective as from the starting date the maintenance, service is provided.

5. You shall also be required to attend to **Breakdowns and Emergency Interventions as and when required**. Intervention Service Reports/Job Sheets on the servicing and maintenance carried out shall be provided to the user/client within two (2) working days of the preventive maintenance.

6. Payment will be effected on a quarterly basis by the **Finance Section** upon confirmation of the **Biomedical Engineer/Technician** that the services have satisfactorily been carried out.

7. Kindly confirm acceptance of this award by **Fax: 428 2374** to the undersigned by Friday, **03 March, 2023 at latest**. A proposed Calendar of the Preventive Maintenance should be submitted along with.

8. This Letter of Award and your Offer shall constitute a **binding agreement** between you and the Central Health Laboratory, Ministry of Health and Wellness.

Yours Faithfully,

[I. Mosafeer]
Assistant Manager, Procurement & Supply
Central Health Laboratory, Candos.

Central Health Laboratory, Victoria Hospital, Candos.

Molecular Biology Department. chl molecularbiology@gmail.com



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FIELD SERVICE REPORT		N° 16633					
		INSTRUMENT: Ion chef 2 GeneStudio S5					
Customer Name: Victoria Hospital		MAKE SN MODEL: Thermo Fisher Scientific					
Institute: Virology		SN: 242472111 2 2774920120626					
Address: Candos		SERVICED BY: Ricky					
		SIGNATURE: RK					
Tel No.:		Service Completed	Day	Month	Year	Time In	Time Out
Fax No.:		<input checked="" type="checkbox"/>	08	04	22		
E-mail address:		Call description					
PROBLEM DESCRIPTION		TROUBLESHOOTING PROCEDURES					
General Servicing		<ul style="list-style-type: none"> - Performed factory test - Performed XY calibration - Performed Z calibration - Performed update 					
Instrument Down : Yes No		Items Descriptions Part. No Qty U.Price Rs T.Price Rs					
ADDITIONAL COMMENTS		The equipment was service and found working in good condition.					
I/We hereby certify that the above information is correct:		Name of Customer: H. MATHUR Signature Customer: [Signature] Title: [Signature] Date: 08/04/22					

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Department of Molecular Biology – Central Health Laboratory

chlmolecularbiology@gmail.com

Tel: 424-6375, Ext 3587

Date: May 16, 2022

From: PMLT, Molecular Biology Department, CHL

To: Acting Deputy Director Laboratory Services

Through: Chief Medical Laboratory Technologist

Attention: AMPS, Central Health Laboratory Stores

Our REF: 2022-05-16 Maintenance renewal_ABBOTT01_275020853_GR_AMPS

RE: Initiate renewal of Planned preventive maintenance and repairs of quantitative real time PCR HIV-1 viral load platform at Molecular Biology Department (Yearly) for ABBOTT SN 275020853

Dear Sir / Madam,

According to our records, the maintenance contract for equipment ABBOTT 01 real time PCR for HIV viral load is due for initiation. ~~Kindly note that for a year the equipment has not been run due to Covid-19 pandemic.~~ We would be grateful if you kindly take necessary actions to launch the renewal.

Please find below additional information that may be of help:

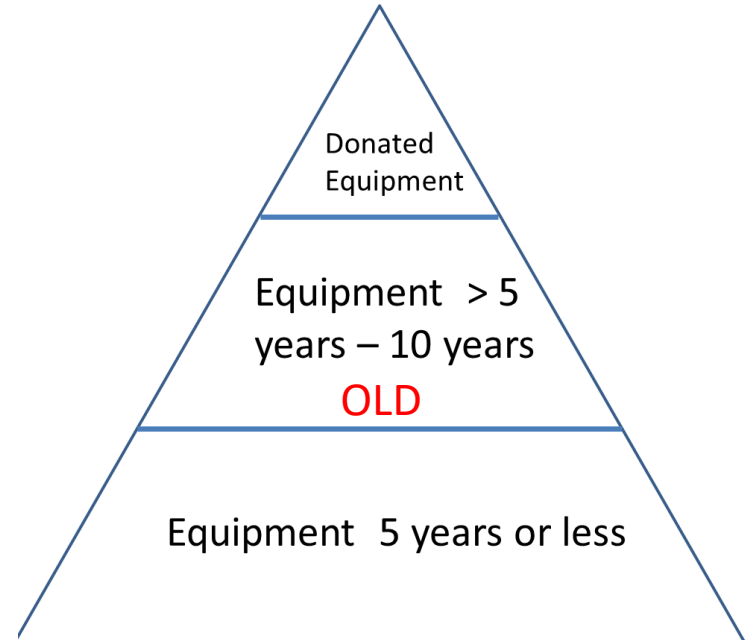
Supplier: 1. Equipment: Quantitative Real time PCR platform for HIV-1 viral load

MHPDO/Equip/2014/DO59

The last request was REF: ~~Req~~ 289 (22-02-2019)

Kindly renew for period June 2022 - May 2023.

Yours truly,



Central Health Laboratory, Victoria Hospital, Candos.

Molecular Biology Department. chlmolecularbiology@gmail.com



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FIELD SERVICE REPORT		INSTRUMENT: <i>Real Time PCR</i>		N° <i>23265</i>	
		MAKE/SM MODEL: <i>QuantStudio 5.</i> <i>96 Well 0.1mL Block</i> <i>272512659 (T, Lea)</i>		SERVICED BY: <i>JORDIE</i> SIGNATURE: <i>[Signature]</i>	
Customer Name: <i>Virology</i>		Service Completed: <input checked="" type="checkbox"/>		Day: <i>18</i> Month: <i>05</i> Year: <i>23</i> Time In: <i>09:00</i> Time Out: <i>12:00</i>	
Institute: <i>Candos</i>		Call description: <input checked="" type="checkbox"/> Visit <input type="checkbox"/> Others		<input type="checkbox"/> Phone <input type="checkbox"/> Fax	
Address: <i>Candos</i>		Tel No.:		Fax No.:	
E-mail address:		PROBLEM DESCRIPTION:		TROUBLESHOOTING PROCEDURES:	
<i>A general servicing has been performed.</i>		<i>Contamination of well E6, E5</i> <i>Decontamination done</i> <i>Run ROI Calibration plate</i> <i>Run background calibration plate</i> <i>Run Plate 1, Plate 2, Plate 3</i> <i>(FAM, VIC, ROX, SYBR) (ABY, QUN, MFP)</i> <i>(NUP, TAMARA, CV5)</i>		Instrument Down: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Items Descriptions		Part. No		Qty U.Price Rs T.Price Rs	
ADDITIONAL COMMENTS:		<i>Following the above, after performed a general servicing on the instrument. The contamination of well E6 & E5 have been cleared. The decontamination of the block have been done. The instrument is working fine.</i>			
Name of Customer: <i>[Signature]</i>		Signature of Customer: <i>[Signature]</i>		Title:	
Date:		<i>18/05/23</i>			

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PUBLIC HEALTH TESTING EQUIPMENT

BACTERIOLOGY INCLUDING SEL

- **MALDI-TOF**
- Automated Blood culture (BacAlert and BACTEC)
- Microscan for automated identification and AST
- Autoclave
- Biological Safety Cabinets
- GeneXpert
- Teaching Microscope

Molecular Biology and Virology

- **Thermal cyclers (11 mixed brands)**
- BSC II (8)
- PCR cabinets
- Oxford Nanopore technology sequencer
- **NGS ION S5 Chef system**
- ELISA platform
- Automated serology analysers (x3 mixed brands)

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EQUIPMENT

National Blood Transfusion

- **Automated serology analyser**
- **Nucleic acid Testing**
- **Automated Blood group analyser**
- Ultra-centrifuge for platelets, cryo, Plasma separation
- Ultra freezer for frozen plasma preparation
- Apheresis machine
- Platelets Agitators

HISTOLOGY

CYTOLOGY

HAEMATOLOGY

BIOCHEMISTRY I and II

PARASITOLOGY

Central Health Laboratory, Victoria Hospital, Candos.

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Equipment management

- Physical: log book of interventions
- Folio containing Award, Commissioning certificate, intervention sheets. Kept in duplicate (one in laboratory, one in Principal's office)
- Long term: integrated into present software: Laboratory Information Management System (LIMS)



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Equipment management

- Physical: log book of interventions
 - Standard Testing Protocols (already in place)
 - Record keeping of users intervention for tracking
 - FSE Reports
 - Calibration reports
 - EQA results on equipment



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Equipment management

- The long term:
 - Standardise operations (SOPS)
 - Digital conversions of hard copies for safe-keeping; tracking, archiving
 - Assistance for software for equipment management.



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Once we have the equipment

We will perform tests

Generate data

Generate waste

Have to look at aspects of Biosafety and
Biosecurity

Which leads to the next presentation