

# Africa Pathogen Genomics Initiative (Africa PGI)

**RFQ No. ASLM/SLL/01/25/23**

**REQUEST FOR QUOTATION FOR  
THE SAVING LIVES AND LIVELIHOODS (SLL) LABORATORY  
STRENGTHENING PROGRAM THROUGH THE AFRICA PATHOGEN  
GENOMICS INITIATIVE**

**Call for Quotation Reference: ASLM/SLL/01/25/23**

Africa PGI Contact:  
Institute of Pathogen Genomics  
Division of Laboratory Systems and Networks  
Africa CDC, Addis Ababa, Ethiopia  
Email: [rfpsubmission@aslm.org](mailto:rfpsubmission@aslm.org), with a copy to [SitholeN@africa-union.org](mailto:SitholeN@africa-union.org)



## Notice

This is a request for Quotation (RFQ), where full quote is submitted and evaluated at one stage. The request should include but not limited to equipments and supplies prices, shipping and handling to the final destination, warranties, installation and maintenance agreements wherever requested. The total number of pages of the proposal should not be more than 10 pages of Arial 10 characters with 1” margins.

# 1: INSTRUCTIONS TO APPLICANTS AND PROPOSAL CONDITIONS

## 1.1 ASLM background

The African Society for Laboratory Medicine (ASLM) is a Pan-African professional body working to advocate for the critical role and needs of laboratory medicine and networks throughout Africa. Africa is rapidly growing but faces major health challenges including epidemics of HIV, tuberculosis, and malaria, and new priorities such as COVID-19, Ebola, and other global health security threats. Strengthened laboratory capacity and surveillance in Africa are critical to overcoming the burden of disease and ensuring a healthy future for the continent. ASLM through the SLL program addresses these challenges by working collaboratively with governments, local and international organizations, implementing partners, and the private sectors. ASLM collaborates with the Africa Centres for Disease Control and Prevention (Africa CDC) to implement the key objectives of the Africa Pathogen Genomics Initiative (Africa PGI).

## 1.2 Africa CDC background

The Africa CDC was officially launched in Addis Ababa, Ethiopia, on January 2017. The Africa CDC is Africa's first continent-wide public health agency and envisions a safer, healthier, integrated, and stronger Africa, where Member States are capable of effectively responding to infectious disease outbreaks and other public health threats. The agency's mission is to strengthen Africa's public health institutions' capabilities to detect and respond quickly and effectively to disease outbreaks and other health burdens through an integrated network of continent-wide preparedness and response, surveillance, laboratory, and research programmes. Strengthening laboratory network systems and integrated disease surveillance are the core mandates of Africa CDC. As part of these mandates and owing to the benefits of genomic-based surveillance, Africa CDC launched the Institute of Pathogen Genomics (IPG) in November 2019. IPG was launched with a vision to integrate pathogen genomics and bioinformatics into public health surveillance, outbreak investigations, and improved disease control and prevention in

Africa. In seeking to achieve this vision, the IPG is intending to strengthen its capacity to deliver by, among others, the reinforcement of its organizational structure and expertise.

### 1.3 Summary of the Requirement

The ASLM invites you to submit a Quote for equipments and supplies for our laboratory strengthening program (SLL program). The quote should include full detail on the price, shipping and handling to the final destination, warranties, installation and maintenance agreements wherever requested.

### 1.4 The process and due dates

The following key dates apply to this RFQ:

RFQ Issue Date	27 February 2023
RFQ Closing Date and Time	20 March 2023, 11:59 EAT
Estimated Contract Award Date	30 March 2023

### 1.5 Eligibility of applicants

Applicants may act individually or with partner organizations. Applicants must:

- be an entity with legal personality, and
- not be a Governmental Organization
- Indigenous African Organizations will be prioritized
- be directly responsible for the preparation and management of the action with their Partners, not acting as an intermediary

## **1.6 Subcontracting**

In order to support The SLL program laboratory strengthening in genomic sequencing, the Applicant may propose awarding subcontracts. However, subcontracts may not be the main purpose of the Action and it must be duly justified.

In case where the Applicant foresees to award subcontracts, it has to specify in its application the total amount of funding which may be used for awarding subcontracts as well as the minimum and maximum amount per subcontract a list with the types of activity which may be eligible for subcontracts must be included in the application.

## **1.7 Queries and questions during the RFQ period**

Applicants are to direct any queries and questions regarding the RFQ via email to [rfpsubmission@aslm.org](mailto:rfpsubmission@aslm.org) with a copy [SitholeN@africa-union.org](mailto:SitholeN@africa-union.org), [NVere@aslm.org](mailto:NVere@aslm.org) Proposers may submit their queries no later than 20<sup>th</sup> March 2023, 11:59 EAT.

## **1.8 Amendments to RFQ documents**

ASLM may amend the RFQ documents by issuing notices to that effect to all Applicants and may extend the RFQ closing date and time if deemed appropriate.

## **1.9 Contract Value**

The contract value for this RFQ should not exceed USD 2 600 000 (two million six hundred thousand US dollars)

## **1.10 Duration of the assignment**

The duration of the Contract will start upon signature of the contract and will end by 20<sup>th</sup> September 2023. The SLL program for laboratory strengthening in genomic sequencing will follow an iterative process with the involvement of Africa PGI technical staff and the continental technical working group.

### **1.11 Proposal submission**

Applicants must submit their Proposal to ASLM to: [RFPsubmission@aslm.org](mailto:RFPsubmission@aslm.org), and copy [SitholeN@africa-union.org](mailto:SitholeN@africa-union.org) no later than the 20<sup>th</sup> of March 2023 (11:59 pm East African Time). Electronic copies are to be submitted in PDF format. Applicants may submit multiple emails (suitably annotated - e.g. Email 1 of 3) if attached files are deemed too large to suit a single email transmission. Applicants may also submit the proposal by the link to a web-based file storage system. The Applicant must send the link via email following the above format before the closing date of the RFQ.

The Proposal shall comprise two parts, namely the Technical Proposal and the Financial Proposal. These two parts shall be submitted simultaneously in two separate PDF documents. One document shall contain only information relating to the Technical Proposal and the other, only information relating to the Financial Proposal.

**IMPORTANT:** Submitted documents should be password-protected so that they cannot be opened and read before the submission deadline. Please use the same password for all submitted documents. After the deadline has passed, please send the relevant password to the same email address used for submitting your Proposal. This will ensure a secure bid submission and opening process. Please **DO NOT** email the password before the deadline for Proposal submission.

### **1.12 Language requirement**

Proposals must be prepared in English or one of the Africa Union's official languages. The SLL program laboratory strengthening in genomic sequencing must support all AU working languages.

### **1.13 Late and Incomplete Proposals**

Any Proposal received by ASLM later than the stipulated RFQ closing date and time, and any Proposal that is incomplete, will not be considered. There will be no allowance made by ASLM for any delays in transmission of the Proposal from Applicant to ASLM.

### **1.14 Withdrawals and Changes to the Proposal**

Proposals may be withdrawn or changed at any time prior to the RFQ closing date and time by written notice to the Africa PGI contact. No changes or withdrawals will be accepted after the RFQ closing date and time.

### **1.15 Validity of Proposals**

Proposals submitted in response to this RFQ are to remain valid for a period of 90 Calendar days from the RFQ closing date. The evaluation of proposals shall be carried out exclusively in regard to the evaluation criteria and their relative weights specified in part 3 of this RFQ.

### **1.16 Evaluation and Award Process**

The evaluation of Proposals shall be carried out exclusively in regard to the evaluation criteria and their relative weights specified in Part 3 of this RFQ.

### **1.17 Contractual Terms and Conditions**

Responses must be in accordance with the guidelines as specified in this RFQ. ASLM is not bound in any way to enter any contractual or other arrangements with any Applicant as a result of issuing this RFQ. ASLM is not responsible for any costs incurred in the preparation of responses to this RFQ. All materials submitted in response to this RFQ or developed during the life of the contract will become the property of ASLM. The detailed itemized budget must be submitted in US dollars and will be evaluated in terms of best value to ASLM. ASLM is under no obligation to accept the lowest priced Proposal or any Proposal. ASLM reserves the right to terminate the procurement process at any time prior to contract award. By participating in this RFQ, Proposers accept the conditions set out in this RFQ. Proposers must sign the "Proposer's Declaration Form" on annex 1 of this FRQ and include it in their Proposal.

ASLM reserves the right to delay, amend, reissue or cancel all or part of this RFQ at any time without prior notice. ASLM discourages ex parte communication with any Board member, the public and/or staff member after the deadline for the receipt of proposals. ASLM will be under no obligation to reveal, or discuss with any Respondent on how a proposal was assessed, or to provide any other information relative to the selection process. Respondents whose proposals are not selected will be notified in writing and shall have no claim whatsoever for any kind of compensation.

## 1. **PART 2: REQUIREMENTS FOR THE EQUIPMENTS TO BE PROVIDED**

### 1.1 **Scope of Work**

ASLM, under the Africa PGI and with the support of Africa CDC SLL funding, wishes to procure laboratory items to strengthen the biospecimen storage space and data management system at selected Centers of Excellence (COEs) under the PGI network in eight African Union Member States (Côte d'Ivoire, Gabon, Ghana, Kenya, Morocco, Senegal, South Africa, and Zambia). ASLM seeks a contractor to achieve this goal. We hereby seek a quote for the attached items (as categorized in Annex 2: Product List and as detailed in Annex 3: Product Specifications), including the following:

- a. full price,
- b. shipping/handling to the respective final destinations,
- c. warranties,
- d. full installation,
- e. Training and maintenance for any equipment over \$5000.



## 2. **PART 3: EVALUATION AND SELECTION OF APPLICANTS**

An evaluation of the quality of the applications, including the capacity of the applicant and its partners, previous experience in pathogen genomic sequencing, and the proposed budget, will be carried out in accordance with the evaluation criteria set out in the Evaluation Grid included below. The award criteria allow the quality of the applications submitted to be evaluated in relation to the set objectives and priorities, and Applicants are to be shortlisted to perform actions that maximize the overall effectiveness of the call for proposals.

### **Scoring:**

The evaluation criteria are divided into sections and subsections. Each subsection will be given a score between 1 and 5 where: 1 = very poor; 2 = poor; 3 = adequate; 4 = good; 5 = very good.

### **2.1 Full Proposal Evaluation Grid**

Criteria	Scores
<b>Approach</b>	<b>10</b>
<ul style="list-style-type: none"> <li>Clarity, innovation and feasibility of the approach</li> <li>Plans/strategies for the laboratory strengthening in pathogen genomic sequencing and engagement with after-sales warranty, installation, and maintenance agreements.</li> </ul>	5 5
<b>Operational Capacity</b>	<b>10</b>
<ul style="list-style-type: none"> <li>Administration, financial, and management systems to support transparent accountabilities of the proposed activities</li> </ul>	10
<b>Technical Capacity</b>	<b>60</b>
<ul style="list-style-type: none"> <li>Past experience in pathogen genomic sequencing platforms, equipments and supplies</li> <li>Qualified personnel to support the onsite training and piloting of the platforms</li> </ul>	25 25
<ul style="list-style-type: none"> <li>Alignment of the proposed approach with Africa CDC's vision and existing implementation mechanisms.</li> </ul>	10
<b>Evaluation and Performance Measurement</b>	<b>10</b>
<ul style="list-style-type: none"> <li>Presentation of a performance monitoring plan that clearly and accurately tracks each activity, including monitoring, tracking, and reporting.</li> </ul>	10
<b>TOTAL</b>	<b>90</b>

### Financial Proposal

Criteria	Scores
<b>Realistic and Cost Effective</b>	<b>10</b>
<ul style="list-style-type: none"> <li>Unit cost and quantities must be provided for all individual goods purchased</li> <li>— Unit costs should be representative of the real estimated costs to be incurred (costs should not be unrealistic or ineligible)</li> </ul>	10

<ul style="list-style-type: none"> <li>– Quantity of units should reflect the scope of the Applicant’s proposed action</li> <li>• Details of service costs to be provided should include amongst others but not limited to nature/type of service, period for which service will be provided, total real estimated costs, etc.</li> <li>– Cost and length of service should be reasonable and complete</li> <li>• The proposed Applicant’s budget should clearly detail the proposed action</li> </ul> <p>plan and be documented in the format provided in the RFQ</p>	
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**Minimum score to be considered for the award is 70%**

## 2.2 Submission of Supporting Documents

The Applicant is required to submit the following additional documents.

1. The statutes or articles of association of the applicant organization and of each partner organization.
2. Documents supporting the legal entity of the applicant organization and the legal entity number must be provided.
3. A financial identification form must be submitted, certified by the bank to which the payments will be made. This bank must be located in the country where the applicant is registered.
4. Tax registration and latest compliance certificate with applicable local authority
5. Proof of previous experience in similar or related undertakings in supplying laboratory equipment’s and supplies must be submitted
6. Proof of the expertise of the applicant organization, partners, and team expertise (existing or to be recruited as part of this application) to support logistic and supply for laboratory equipment’s, including services after sales such as warrantee, installation, training and maintenance.

The requested supporting documents must be scanned copies of originals, with original versions made available on request through registered mail.

Where such documents are not in one of the official languages of the African Union, a translation into English of the relevant parts of these documents, proving the applicant's eligibility, must be attached and will prevail for the purpose of analysing the application.

If the above-mentioned supporting documents are not provided before the deadline indicated in the request, the application may be rejected.

### **2.3 Conflict of Interest**

The Applicant must disclose in its application any circumstances, including personal, financial, and business, that will or might give rise to a real or perceived conflict of interest by taking part in this Request for proposals process. Where the Applicant identifies potential conflicts, it shall state in the application how it will avoid such conflicts. Africa CDC and ASLM reserve the right to reject any Applicant which, in the sole opinion of Africa CDC or ASLM, gives rise or potentially gives rise to a conflict of interest.

### **2.4 Confidentiality, Intellectual Property and Use of Documents**

The contents of this call for proposals and any supporting documents that may be made available by Africa CDC or ASLM from time to time throughout this call for proposals process are confidential and proprietary to Africa CDC and protected by intellectual property rights. This call for proposals and such other documents are being made available to the Applicant on the condition that the Applicant shall always keep the contents of this call for proposals and such other documents confidential and shall not reproduce, distribute or disclose the contents for any purpose, except: (i) to the Applicant's own employees that have a need-to-know in order to facilitate the Applicant's participation in this call for proposals process; and (ii) where required by applicable laws or regulations.

Nothing in these terms and conditions shall convey to the applicant any right, title, interest, or license in, or to, any trademark, trade name, or any other intellectual property rights of Africa CDC. The Applicant shall not issue any news release, public announcement, advertisement, or any other form of publicity, in any form or content, in connection with this call for proposals or referring to either or both of Africa CDC without first obtaining the written approval of Africa CDC.

If the Applicant has any doubts about the disclosure of confidential or proprietary information, Africa CDC recommend that it consult with its legal counsel and take steps necessary to protect its confidential information and intellectual property.

## **2.5 Limitation of Liability and Indemnity**

While the information provided in this call for Proposals and in supporting documents that may be made available by Africa CDC or ASLM from time to time throughout this call for proposals process have been prepared in good faith, the information does not purport to be exact or comprehensive. Neither Africa CDC, ASLM nor their respective affiliates, officers, directors, employees or other representatives, make any representation or warranty as to the accuracy or completeness of the information, nor shall they be liable for any loss or damage arising from or in connection with any reliance on such information.

This call for proposals process is an opportunity only, and none of Africa CDC, ASLM or their respective affiliates, officers, directors, employees or other representatives, make any representation or warranty that participation in this call for proposals process in any form whatsoever will lead to any result or commit Africa CDC or the Contracting Authority to any course of action, nor shall they be liable for any loss or damage arising from or in connection with any participation in this call for proposals process in any form whatsoever.

By using the information contained in this call for proposals or any supporting documents relating to this call for proposals that may be made available by Africa CDC or the Contracting Authority from time to time, or by otherwise participating in this call for proposals process in any form whatsoever, the Applicant hereby agrees to indemnify and hold harmless Africa CDC, the Contracting Authority and their respective affiliates, officers, directors, employees and other representatives, from and against any and all claims, liabilities, costs and expenses arising from or in connection with the Applicant's:

- (i) breach of these terms and conditions; (ii) negligent act, omission or willful misconduct relating to this call for proposals process; or (iii) failure to comply with applicable laws and regulations relating to this call for proposals process.

## **2.6 Consent to Due Diligence**

By submitting an application in response to this call for proposals, an Applicant consents to the conduct by Africa CDC, ASLM, or their professional advisors or service providers, of due diligence investigations with respect to the Applicant as Africa CDC or ASLM may in their sole discretion deem necessary.

## Annex 1: Proposers declaration form

Date: *(insert as day, month and year)*

To: *[insert: Name of ASLM focal point]* ASLM,  
Joseph Tito Street,  
P.O. Box 5487, Kirkos Subcity, Kebele  
08,  
Addis Ababa, Ethiopia

Dear Sir/Madam:

We, the undersigned, hereby offer to provide professional services for RFQ "ASLM/ACDC/06/12/22"**FOR LABORATORY STRENGTHENING EQUIPMENTS AND SUPPLIES FOR THE SLL PROGRAM**" in accordance with your Request for Quotation dated *[insert:*

*Date]* and our Proposal. We are hereby submitting our Proposal, which includes the

We hereby declare that:

- a) All the information and statements made in this Proposal are true and we accept that any misrepresentation contained in it may lead to our disqualification.
- b) We have no outstanding bankruptcy or pending litigation or any legal action that could impair our operation as a going concern; and
- c) We do not employ, nor anticipate employing, any person who is or was recently employed by ASLM.
- d) We hereby certify that there is not any actual or potential conflict of interest or unfair advantage at this time, in us providing the Offer Submission or performing the Services required.
- e) We confirm that we have read, understood and hereby accept the Terms of Reference describing the duties and responsibilities required of us in this RFQ.
- f) We agree to abide by this Proposal, *and* we undertake, if our Proposal is accepted, to initiate the services not later than the date indicated in the RFQ.
- g) We fully understand and recognize that ASLM is not bound to accept this proposal, that we shall bear all costs associated with its preparation and submission, and that ASLM will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the evaluation.

Yours sincerely,

Authorized Signature *[In full and initials]*: Name and  
Title of Signatory:  
Name of organization:  
Contact Details:

**NB: This Declaration must be signed and stamped as appropriate**

## Annex 2: Product list

SN	Item	Total quantity	Quantity per Country	Destination country (Institution)
1	Ultra-low Freezer (-150°C)	3	1	<b>Gabon</b> (International Centre for Medical Research in Franceville (CIRMF))
			2	<b>Ghana</b> (Noguchi Memorial Institute for Medical Research (NMIMR))
2	Ultra-low Freezer (- 80°C)	14	3	<b>Cote d'Ivoire</b> (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
			4	<b>Gabon</b> (International Centre for Medical Research in Franceville (CIRMF))
			2	<b>Kenya</b> (Kenya Medical Research Institute (KEMRI))
			3	<b>Morocco</b> (Pasteur Institute Morocco)
			2	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
3	Freezer (-20°C)	2	2	<b>Morocco</b> (Pasteur Institute Morocco)
4	Freezer (-10 to -30), including Installation works	3	1	<b>Cote d'Ivoire</b> (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
			2	<b>Ghana</b> (Noguchi Memorial Institute for Medical Research (NMIMR))
5	Refrigerator (+4°C)	1		<b>Morocco</b> (Pasteur Institute Morocco)
6	Freezer Racks	80	70	<b>Ghana</b> (Noguchi Memorial Institute for Medical Research (NMIMR))
			10	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
7	Liquid Nitrogen Tank	3	1	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	<b>Zambia</b> (Zambia National Public Health Institute (ZNPPI))
8	Liquid nitrogen production system, including installation	1	1	<b>Gabon</b> (International Centre for Medical Research in Franceville (CIRMF))
9	Biosafety Cabinet Class III	2	2	<b>Kenya</b> (Kenya Medical Research Institute (KEMRI))
10	Class II hood for TECAN Evo150 robot: equipment, transport, installation, qualification, training	1	1	<b>Senegal</b> (Pasteur Institute Dakar)
11	Lock Door Hood	1	1	<b>Senegal</b> (Pasteur Institute Dakar)
12	Real Time/QPCR, including service and maintenance agreement	1	1	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))



13	UPS	5	5	<b>Ghana</b> (Noguchi Memorial Institute for Medical Research (NMIMR))
14	Temperature monitoring System, including monthly software subscripion for 60 months	10	10	<b>Morocco</b> (Pasteur Institute Morocco)
15	Fisherbrand™ TraceableLIVE™ WiFi Datalogging LN2 Thermometer with Remote Notification (model 6512), including monthly software subscripion for 60 months	30	30	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
16	FreezerPro® Sample Management System (enterprise edition) - Monthly software subscription (60 months)	60	60	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
17	Temperature control and regulation systems	10	10	<b>Gabon</b> (International Centre for Medical Research in Franceville (CIRMF))
18	01 Temperature management software the OCEAView™ Solution, supplied with 31 probes, 20 recorders, 31calibrators and various accessories (supply, installation, and training)	1	1	<b>Cote d'Ivoire</b> (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
19	Freezer ice scrappers	10	10	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
20	Slimflex wooden handled spatula	7	7	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
21	Cryotube boxes	500	500	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
22	Crovials	5	5	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
23	Cryogenic Gloves	12	12	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
24	2D/3D bar coding system	1	1	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
25	Laboratory labeller	1	1	<b>Morocco</b> (Pasteur Institute Morocco)
26	DESKTOP BAR CODE PRINTER	1	1	<b>Morocco</b> (Pasteur Institute Morocco)
27	Barcode printer Paper- forZebra GK420d - Compact Direct Thermal Desktop Label Printer	200	200	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
28	Barcode Reader	10	10	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
29	Server (PowerEdge R750 - Full Configuration - [EMEA_R750] )	1	1	<b>Morocco</b> (Pasteur Institute Morocco)
30	Desktop computer	3	1	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
31	Tablet (Off site data collection)	4	2	<b>South Africa</b> (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
32	Lenovo X1 extreme laptop gen 4	2	2	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
33	Antivirus and security Software	2	2	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
34	HP Color LaserJet Enterprise MFP M555f tonner	5	5	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))



35	HP Color LaserJet Enterprise MFP M555f	1	1	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
36	Wheeled trolley with drawers	1	1	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
37	Hand trolley (wedge)	1	1	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))
38	Kensington lock	4	4	<b>Zambia</b> (Zambia National Public Health Institute (ZNPHI))

List of Items for the Procurement

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1	Ultra-low Freezer (-150°C)	3	1	Gabon (International Centre for Medical Research in Franceville (CIRMF))
			2	Ghana (Noguchi Memorial Institute for Medical Research (NMIMR))
2	Ultra-low Freezer (- 80°C)	14	3	Cote d'Ivoire (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
			4	Gabon (International Centre for Medical Research in Franceville (CIRMF))
			2	Kenya (Kenya Medical Research Institute (KEMRI))
			3	Morocco (Pasteur Institute Morocco)
			2	South Africa (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
3	Freezer (-20°C)	2	2	Morocco (Pasteur Institute Morocco)
4	Freezer (-10 to -30) , including installation works	3	1	Cote d'Ivoire (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
			2	Ghana (Noguchi Memorial Institute for Medical Research (NMIMR))
5	Refrigerator (+4°C)	1	1	Morocco (Pasteur Institute Morocco)
6	Freezer Racks	80	70	Ghana (Noguchi Memorial Institute for Medical Research (NMIMR))
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7	Liquid Nitrogen Tank	3	1	South Africa (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	Zambia (Zambia National Public Health Institute (ZNPHI))
8	Liquid nitrogen production system, including installation	1	1	Gabon (International Centre for Medical Research in Franceville (CIRMF))
9	Biosafety Cabinet Class III	2	2	Kenya (Kenya Medical Research Institute (KEMRI))
10	Class II hood for TECAN Evo150 robot: equipment, transport, installation, qualification, training	1	1	Senegal (Pasteur Institute Dakar)
11	Lock Door Hood	1	1	Senegal (Pasteur Institute Dakar)
12	Real Time/QPCR, including service and maintenance agreement	1	1	South Africa (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
13	UPS	5	5	Ghana (Noguchi Memorial Institute for Medical Research (NMIMR))
14	Temperature monitoring System, including monthly software subscripion for 60 months	10	10	Morocco (Pasteur Institute Morocco)
15	Fisherbrand™ TraceableLIVE™ WiFi Datalogging LN2 Thermometer with Remote Notification (model 6512), including monthly software subscripion for 60 months	30	30	Zambia (Zambia National Public Health Institute (ZNPHI))
16	FreezerPro® Sample Management System (enterprise edition) - Monthly software subscription (60 months)	60	60	Zambia (Zambia National Public Health Institute (ZNPHI))
17	Temperature control and regulation systems	10	10	Gabon (International Centre for Medical Research in Franceville (CIRMF))
18	O1 Temperature management software the OCEAVIEW™ Solution, supplied with 31 probes, 20 recorders, 31calibrators and various accessories (supply, installation, and training)	1	1	Cote d'Ivoire (Pasteur Institute Cote d'Ivoire/Biological Resource Center)
19	Freezer ice scrappers	10	10	Zambia (Zambia National Public Health Institute (ZNPHI))
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26	DESKTOP BAR CODE PRINTER	1	1	Morocco (Pasteur Institute Morocco)
27	Barcode printer Paper- forZebra GK420d - Compact Direct Thermal Desktop Label Printer	200	200	Zambia (Zambia National Public Health Institute (ZNPHI))
28	Barcode Reader	10	10	Zambia (Zambia National Public Health Institute (ZNPHI))
29	Server (PowerEdge R750 - Full Configuration - [EMEA_R750] )	1	1	Morocco (Pasteur Institute Morocco)
30	Desktop computer	3	1	South Africa (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	Zambia (Zambia National Public Health Institute (ZNPHI))
31	Tablet (Off site data collection)	4	2	South Africa (National Health Laboratory Service (NHLS)/National Institute for Occupational Health (NIOH))
			2	Zambia (Zambia National Public Health Institute (ZNPHI))
32	Lenovo X1 extreme laptop gen 4	2	2	Zambia (Zambia National Public Health Institute (ZNPHI))
33	Antivirus and security Software	2	2	Zambia (Zambia National Public Health Institute (ZNPHI))
34	HP Color LaserJet Enterprise MFP M555f tonner	5	5	Zambia (Zambia National Public Health Institute (ZNPHI))
35	HP Color LaserJet Enterprise MFP M555f	1	1	Zambia (Zambia National Public Health Institute (ZNPHI))
36	Wheeled trolley with drawers	1	1	Zambia (Zambia National Public Health Institute (ZNPHI))
37	Hand trolley (wedge)	1	1	Zambia (Zambia National Public Health Institute (ZNPHI))
38	Resignton lock	4	4	Zambia (Zambia National Public Health Institute (ZNPHI))

Africa CDC|ASLM Procurement for Strengthening Biobanks in AU Member States: Items will be procured to improve the biobanks' storage space and data management system.

SN	Country	Institution	Item	Specification - as provided by Biobanks	Quantity
1	South Africa	National Health Laboratory Service (NHLS)/National Institute for Occupational Health	Sub -80 Degrees Celsius ULT Fridges (Thermo Fisher Series), including service and maintenance agreement	(- )86 Degrees Celsius 5 or 4 Individual inner doors Excellent insulators/triple gasket door seals Reliable compressors sizes- 668 Litres or 793 Litres Independent Temperature monitor Energy efficient (low energy consumption) Advanced U series controller (USB portal) <del>Alarms – hot condenser, power failure, low battery, door opened</del>	2
			Liquid Nitrogen Tank (MVE series)	(- )150 degrees cryo preservation Isothermal storage series Autofill and monitoring LED digital display High temperature alarm Featuring the TEC 3000 (MVE 1839) The MVE Series freezers provide stable cryogenic storage for up to 39,000 1.2/ 2.0 ml vials. These freezers provide maximum storage density and provide the industry's longest hold time. MVE Series are primarily designed for liquid storage. Features include • Liquid sample storage • Wide neck opening • Lowest liftover height • Largest LN2 capacity • Optional Battery Backup Storage Capacity 1.2 & 2 ml Vials (Internally Threaded):39,000 Number of Large Racks 100 cell boxes: 28 Number of Large Racks 100 cell boxes: 8 Number of Shelves per Rack: 13 High Security Straw Capacity (0.5 ml): 151,200 Number of Canisters (73 mm): 150 Goblets/Canister : Straws/Goblet = 6:168 Performance LN2 Capacity w/o Inventory L: 673	1
			Freezer Racks	5 columns and 4 rows racks	10
			Real Time/QPCR, including service and maintenance agreement	96 Well block Absolute and relative quantification Allelic discrimination End point detection Melt curve and protein analysis Minimal scan time of six seconds to up to six fold multiplexing Integrated touchscreen	1
			Computer	Desktop computers Processing power Hard disk 1 TB or 2 TB Graphics card 1Gig i5 process 4GB RaM LED monitor 21 inches	1
			2D/3D bar coding system	Generate 2D barcode Export or print them QR code generator Creating over 10 different symbologies	1
2	Ghana	Noguchi Memorial Institute for Medical Research (NMIMR)	Ultra-low Freezer	CryoCube F570n ULT Freezer, 5 inner compartments (4 shelves, 5 inner doors), door handle on left side, air- cooled, 230V/50Hz, power cords EU and UK	2
			Freezer Racks	Drawer style stainless steel rack for Premium/HEF/F570/h upright freezers, closed configuration for storage of 16 boxes up to 136x136x53 mm (2 <sup>mm</sup> boxes) Outer	70
			UPS	4.6 KVA, SVS,Sollatek voltage stabilizers	5
			Freezer (-10 to -30) , including installation works	Laboratory Freezer (-10 to -30) FROSTER LABO 530 PRO-ACTIVE	2
			Laboratory labeller	Technical specification required: Ideal for laboratory labeling & Digital display of operating parameters Comes with: 25 LABEL FREEZERBONDZ P/LABEL MACHINE BMP51/53 25.40X12.70MM	1
			DESKTOP BAR CODE PRINTER	Technology: Direct thermal standard interfaces; USB Device Type B connector v.2.0 high speed,USB Host Type A connect v.2.0 high speed, Ethernet 10/100 Mbps module User Interfaces: 2.36" VGA LCD 480 x 234 resolution in languages (English, French), Graphics: Supports user-defined fonts and graphics formats including BMP, GIF, PCX, and PNG. Memory Mini: 128 MB Flash, 128 MB RAM (DDR2) Label width: 118 mm Print width: 203 dpi - max. 104mm 300dpi - max. 106mm Print Speed: Selectable, up to 203.2 mm/s for 203 dpi; 152.4 mm/s for 300 dpi Print direction; text printing, barcodes and graphics in your four senses Cutting mechanism: electronic cutter with LTS (PC43d) user adjustable (full or partial cut), front label tray Available barcode symbologies All 1D barcode symbologies are available, as well as the following 2D and composite	1

			<p>Freezer (-80°C)</p>	<p>REF: TRUST BMTRU69086 Upright freezer 680 liters supplied with rack  Working temperature adjustable from -60°C to -86°C.  Temperature uniformity at -80°C: +/- 3°C  Maximum storage of 48,000 cryotubes 2 ml QP 9 points  Construction  Inner tank in stainless steel, rounded corners. Easy cleaning  Unit mounted on 4 swivel castors  2 adjustable leveling jacks / 2 rear stops  6-sided insulation by vacuum panels (VIP) and foam high density polyurethane  Insulation thickness 80 mm (thermal conductivity &lt; 0.005W/m/K)  Door fitted with a key closure / door closure with progressive tightening  Interchangeable silicone 3-lip door seal  Thermal bridge heated by hot gas return around the frame to minimize the formation of frost on the door  seal /Heated pressure equalizer for instant door opening  Passage of cables diameter 22 mm  Cold production  Very fast temperature drop from 22°C to -81°C in 4 hours  full access to compressors  Absence of oil separator and expansion tank  Refrigeration provided by two powerful hermetic compressors (1.5 + 1 hp) mounted in cascade  Re-injection of fluids at low temperature preserving the compressors  CFC-free, HCFC-free, non-flammable refrigerants (R 417 A / R 508 B)  Regulation Stability +/-1°C at -80°C  Electronic temperature controller assisted by an industrial PLC, 1 silicone-sheathed Pt 100X3 type</p>	<p>3</p>
3	Morocco	Pasteur Institute Morocco	<p>Refrigerator (+4°C)</p>	<p>Temperature +5°C +/- 3°C  Qualifiable devices according to FD X15-140, Compliant with "Good Laboratory Practice".  Ventilated cooling, adjustable temperature from +2°C to +8°C.  Refrigeration system with automatic defrosting and condensate evaporation.  Electronic regulation with door opening and high and low temperature alarms.  Dry contact for alarm report, Anti-freezing safety thermostat at +2°C.  Steel bodywork with white anti-corrosion epoxy treatment.  High density polyurethane insulation, thickness 50/55 mm.  Door with lock and reversible opening direction.  Ventilation stop when door is opened. automatic door reminder  LED lighting on models with glass door.  Fitted with reinforced plastic-coated steel grilles.  Operation in ambient +10° to +38°C. Power supply 230V mono - 50Hz.  Qualification / verification ½ h empty in the factory  Delivered with their 9-point temperature control map according to FD X15-140 standard  Door type: glazed, Gross/usable volume (L): 360/344  Equipment: 5 grids – (wxd) 478x420 mm  15 mm diameter tank passage for GTC - PT100 or digital probe 30 mm diameter tank passage for characterization and qualification on site  LCD screen with temperature display and adjustment in steps of 0.1°C for maximum precision.</p>	<p>1</p>
			<p>Freezer (-20°C)</p>	<p>Device qualifiable according to FD X15-140.  "Good Laboratory Practice" compliant.  Temperature -20°C +/- 5°C  Electronic regulation on headband. Visual and audible alarms for high and low temperature (+/- 5°C from set point) and extended door opening.  Stop command: start by key switch  Ventilated cooling, adjustable temperature from -25°C to -15°C.  Refrigeration system with automatic defrosting and condensate evaporation.  Electronic control with door opening and high and low temperature alarms Dry contact for steel body  transfer with anti-corrosion white epoxy treatment.  Thermoformed ABS tank with rounded corners. High density polyurethane insulation thickness 65mm  White epoxy treated steel body  Door with reversible opening direction and lock. Ventilation stop when the door is opened, max load 24 kg.  Clean fluid R-600a.  Operation in ambient +10° to +38°C. Power supply 230V mono - 50Hz.  Qualification / verification ½ h empty in the factory  Delivered with their temperature control map in 9 points according to the FD X15-140 standard  Door type: Solid, Gross/useful volume (L): 304/261  Equipment: 8 drawers  Connected power (W): 150, Consumption (kWh/24h): 0.8  15 mm diameter tank passage for GTC-PT 100 or digital probe</p>	<p>2</p>
			<p>Server (PowerEdge R750 - Full Configuration - [EMEA_R750])</p>	<p>Processor: 4 X Intel Xeon Gold 5218 2.3G, 16C/32T, 10.4GT/s, 22M Cache, Turbo, HT (125W) DDR4-2666  Case Configuration: 2.5 Chassis up to 24 Drives (24x SAS/SATA), GPU Capable Configuration, 4 CPUs  Rack Rails: Sliding Rail Set  RAM Memory: 4 X 32GB RDIMM, 3200MT/s, Dual Rank 8Gb BASE  Hard Drive: 8 X 2.4TB 10K RPM SAS ISE 12Gbps 512e 2.5in Hot-plug Hard Drive  Power Supply: Dual, Hot-plug, Redundant Power Supply (1+1), 1600W, 250 Volt power cord  Network Adapters: Broadcom 57416 Dual Port 10GbE BASE-T &amp; 5720 Dual Port 1GbE  BASE-T + Broadcom 5719 Quad Port 1GbE BASE-T Adapter, PCIe  Full Height  Fiber optic network card: 1 X Broadcom 57412 Dual Port 10Gb, SFP+, PCIe Adapter,</p>	<p>1</p>

			<p>OCEASOFT Digital Temperature Controller Thermostat Remote Monitoring Data logger Technical parameters: max end-points 4, Total memory (readings) 16,000, Screen LCD Color touchscreen, IP rating 30, IP67 casing option, replaceable batteries, AC adapter - optional Physical parameters: Temperature, Relative humidity, CO2, Differential pressure, 2-20mA, 0-5V, 0.10V, Dry contact, Light</p>	10
			<p>Fisherbrand™ TraceableLIVE™ WiFi Datalogging LN2 Thermometer with Remote Notification (model 6512), including monthly software subscription for 60 months Type:datalogger,thermometer Alarm types:SMS,Email,Mobile Push Temperature Resolution: 0.01° Length: 10 ft. (Cable) Calibration: -196, -80, 0 and 100°C Accuracy (Temperature): ±0.25°C</p>	30
			<p>FreezerPro® Sample Management System (enterprise edition) - Monthly software subscription (60 months) Complete sample management, SSL data encryption, Track samples in and out of freezers, Icon-based display of box contents, Sample inventory alerts, Easy to follow workflows, Virtual freezers, Reporting and data import/export, Live search by word/part of keyword, Smart search, Live query builder and smart folders, Full audit trails, Mobile devices support, Microsoft Excel add-in, Multi-language support, Comprehensive barcode label and RFID tag designer, Barcode printing for vials, boxes, freezers, 2D code plate scanner support, Biotillion BoxMapper support, Support for sample sources, groups and pick lists, Report templates (visual report builder), Support for freezer sensors, Permission-based access restriction to sample info, Templates for one-click</p>	60
			<p>Lenovo X1 extreme laptop gen 4 Processor : 12th Generation Intel® Core™ i9-12900HX Processor (E-cores up to 3.60 GHz P-cores up to 5.00 GHz) Operating System : Windows 11 Pro 64 Graphic Card : NVIDIA® RTX™ A5500 16GB GDDR6 Memory : 128 GB DDR5-4800MHz (SODIMM) - (4 x 32 GB) Storage : 1 TB SSD M.2 2280 PCIe Gen4 Performance TLC Opal</p>	2
			<p>Cryogenic Gloves Cryogenic gloves low temperature LN2 Liquid Nitrogen protective gloves,Material Nylon Taslan + PTFE + Cotton, Size 2 Count( Pack of 1) special feature: Elbow length, medium</p>	12
			<p>Freezer ice scrappers Stainless steel</p>	10
			<p>Kensington lock Standard Keypad</p>	4
			<p>Tablet (Off site data collection) CPU: Snapdragon 8 Gen 1 Display: 11-inch (2560 x 1600) 120Hz LCD display RAM: 8 GB Storage: 128GB/256GB Ports: USB-C, microSD Battery life: 12:52 (tested) Accessories: S Pen stylus included Dimensions: 9.99 x 6.51 x 0.25 inches</p>	2
			<p>Wheeled trolley with drawers Drawers, flat top, wheeled verso maintenance trolley with 5 drawers / cupboard &amp; multiplex top. Featuring a robust, fully welded steel housing with double, independent, storage sections, push - pull handles, 100% extension drawers with drawer blocking and 125mm diameter castors. Drawer configuration: 2x 100mm, 3x 175mm (50kg U.D.L.) and cupboard section with single, reinforced, door and 1</p>	1
			<p>HP Color LaserJet Enterprise MFP M555f tonner HP 212X High Yield Yellow Original LaserJet Toner Cartridge, W2122X - 10,000 pages HP 212X High Yield Cyan Original LaserJet Toner Cartridge, W2121X - 10,000 pages HP 212X High Yield Magenta Original LaserJet Toner Cartridge, W2123X - 10,000 pages HP 212X High Yield Black Original LaserJet Toner Cartridge, W2120X - 13,000 pages</p>	5
			<p>HP Color LaserJet Enterprise MFP M555f Functions Print, copy, scan, fax (optional) Print Speed - Black (normal): Up to 40 ppm Print speed - Color (normal): Up to 40 ppm  Printer page yield First page out (ready) black: As fast as 6.9 sec First page out (ready) color: As fast as 7.8 sec Resolution (black): HP ImageREt 3600 Resolution (color): HP ImageREt 3600 Resolution technology: HP ImageREt 3600, Pantone Calibrated  Monthly duty cycle: Up to 80,000 pages Recommended monthly page volume: 2000 to 10000 Print Technology: Laser Display: 8" color touchscreen Number of print cartridges: 4 (1 each black, cyan, magenta, yellow)</p>	1
			<p>Hand trolley (wedge) Multi Purpose 2+2 Wheel Trolley / Cart with Solid Rubber Wheels Weight Capacity : 150 – 200 KG Height from handle top to ground : 44" Width : 13.5" Size of Bottom Plate : 16" X 8" Diameter of Small wheel : 5"</p>	1
			<p>Slimflex wooden handled spatula Specifications Autoclavable Description Set of 7 spatulas ranging from 3in-12in For Use With (Application) Multiple use Size-Various Sizes Material-Stainless Steel Quantity 7 Product Type-Spatula Length (English) Blade: 3 to 12 in</p>	7
			<p>Antivirus and security Software Kaspersky Small Office Security .Kaspersky premium plan Real-time Antivirus Online Payment Protection Performance Optimization Unlimited Superfast VPN Identity Protection</p>	2

4

Zambia

Zambia National Public Health Institute (ZNPHI)

			Barcode printer Paper- forZebra GK420d - Compact Direct Thermal Desktop Label Printer	Z-Select 2000D - Premium Topcoated - Direct Thermal Paper Label - Permanent Adhesive - 100mm x 50mm - Labels per Roll: 1500 - Rolls per Box: 4 - No Perforation between the Labels - Printer Type: Desktop - Supplied on 25mm cores with maximum outer diameter 127mm.Rolls per box: 4, Labels per roll: 1500, Size: 100 x 50 mm, Length: 50 mm Width: 100 mm and 8000T LowTemp Matte tt Matte polyolefin label with a cold-temp permanent acrylic adhesive that offers -112°F / -80°C performance for low-temperature use; provides resistance to repeated freeze and thaw cycles	200
			Barcode Reader	Operating Temperature: -20° F to 122° F / -20° C to 50° C Storage Temperature: -40° F to 158° F / -40° C to 70° C Humidity: 20% to 95% RH, non-condensing Drop Specification: 100 drops Withstands multiple 10.0 ft./3.0 m drops to concrete at room temperature Withstands multiple 8.0 ft./2.4 m drops to concrete at -4° F to 122° F / -20° C to 50° C  Tumble Specification: 7500 3.3 ft./1.0 m tumbles Environmental Sealing: IP65 Scanner: IP65 and IP68 per applicable IEC sealing specifications  FLB cradle: IP65  Electrostatic Discharge (ESD): Per EN61000-4-2, ±25 KV air discharge, ±10 KV direct discharge, ±10 KV indirect discharge Ambient Light Immunity: 0 to 10,037 Foot Candles/0 to 108,000 Lux (direct sunlight)  Wireless Connectivity Bluetooth Radio: Bluetooth Class 1, Version 4.0 (LE), serial port (SPP) Data Rate: 3 Mbit/s (2.1 Mbit/s) for Classic Bluetooth 1 Mbit/s (0.27 Mbit/s) for Low Energy  Radio Range: Direct line of sight in open air: Class 1: Minimum 300 ft. (100.0 m); Class 2: Minimum 30 ft. (10.0 m)  Decode Ranges (Typical): Barcode: 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 25D, 26D, 27D, 28D, 29D, 30D, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 41D, 42D, 43D, 44D, 45D, 46D, 47D, 48D, 49D, 50D, 51D, 52D, 53D, 54D, 55D, 56D, 57D, 58D, 59D, 60D, 61D, 62D, 63D, 64D, 65D, 66D, 67D, 68D, 69D, 70D, 71D, 72D, 73D, 74D, 75D, 76D, 77D, 78D, 79D, 80D, 81D, 82D, 83D, 84D, 85D, 86D, 87D, 88D, 89D, 90D, 91D, 92D, 93D, 94D, 95D, 96D, 97D, 98D, 99D, 100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 112D, 113D, 114D, 115D, 116D, 117D, 118D, 119D, 120D, 121D, 122D, 123D, 124D, 125D, 126D, 127D, 128D, 129D, 130D, 131D, 132D, 133D, 134D, 135D, 136D, 137D, 138D, 139D, 140D, 141D, 142D, 143D, 144D, 145D, 146D, 147D, 148D, 149D, 150D, 151D, 152D, 153D, 154D, 155D, 156D, 157D, 158D, 159D, 160D, 161D, 162D, 163D, 164D, 165D, 166D, 167D, 168D, 169D, 170D, 171D, 172D, 173D, 174D, 175D, 176D, 177D, 178D, 179D, 180D, 181D, 182D, 183D, 184D, 185D, 186D, 187D, 188D, 189D, 190D, 191D, 192D, 193D, 194D, 195D, 196D, 197D, 198D, 199D, 200D, 201D, 202D, 203D, 204D, 205D, 206D, 207D, 208D, 209D, 210D, 211D, 212D, 213D, 214D, 215D, 216D, 217D, 218D, 219D, 220D, 221D, 222D, 223D, 224D, 225D, 226D, 227D, 228D, 229D, 230D, 231D, 232D, 233D, 234D, 235D, 236D, 237D, 238D, 239D, 240D, 241D, 242D, 243D, 244D, 245D, 246D, 247D, 248D, 249D, 250D, 251D, 252D, 253D, 254D, 255D, 256D, 257D, 258D, 259D, 260D, 261D, 262D, 263D, 264D, 265D, 266D, 267D, 268D, 269D, 270D, 271D, 272D, 273D, 274D, 275D, 276D, 277D, 278D, 279D, 280D, 281D, 282D, 283D, 284D, 285D, 286D, 287D, 288D, 289D, 290D, 291D, 292D, 293D, 294D, 295D, 296D, 297D, 298D, 299D, 300D, 301D, 302D, 303D, 304D, 305D, 306D, 307D, 308D, 309D, 310D, 311D, 312D, 313D, 314D, 315D, 316D, 317D, 318D, 319D, 320D, 321D, 322D, 323D, 324D, 325D, 326D, 327D, 328D, 329D, 330D, 331D, 332D, 333D, 334D, 335D, 336D, 337D, 338D, 339D, 340D, 341D, 342D, 343D, 344D, 345D, 346D, 347D, 348D, 349D, 350D, 351D, 352D, 353D, 354D, 355D, 356D, 357D, 358D, 359D, 360D, 361D, 362D, 363D, 364D, 365D, 366D, 367D, 368D, 369D, 370D, 371D, 372D, 373D, 374D, 375D, 376D, 377D, 378D, 379D, 380D, 381D, 382D, 383D, 384D, 385D, 386D, 387D, 388D, 389D, 390D, 391D, 392D, 393D, 394D, 395D, 396D, 397D, 398D, 399D, 400D, 401D, 402D, 403D, 404D, 405D, 406D, 407D, 408D, 409D, 410D, 411D, 412D, 413D, 414D, 415D, 416D, 417D, 418D, 419D, 420D, 421D, 422D, 423D, 424D, 425D, 426D, 427D, 428D, 429D, 430D, 431D, 432D, 433D, 434D, 435D, 436D, 437D, 438D, 439D, 440D, 441D, 442D, 443D, 444D, 445D, 446D, 447D, 448D, 449D, 450D, 451D, 452D, 453D, 454D, 455D, 456D, 457D, 458D, 459D, 460D, 461D, 462D, 463D, 464D, 465D, 466D, 467D, 468D, 469D, 470D, 471D, 472D, 473D, 474D, 475D, 476D, 477D, 478D, 479D, 480D, 481D, 482D, 483D, 484D, 485D, 486D, 487D, 488D, 489D, 490D, 491D, 492D, 493D, 494D, 495D, 496D, 497D, 498D, 499D, 500D, 501D, 502D, 503D, 504D, 505D, 506D, 507D, 508D, 509D, 510D, 511D, 512D, 513D, 514D, 515D, 516D, 517D, 518D, 519D, 520D, 521D, 522D, 523D, 524D, 525D, 526D, 527D, 528D, 529D, 530D, 531D, 532D, 533D, 534D, 535D, 536D, 537D, 538D, 539D, 540D, 541D, 542D, 543D, 544D, 545D, 546D, 547D, 548D, 549D, 550D, 551D, 552D, 553D, 554D, 555D, 556D, 557D, 558D, 559D, 560D, 561D, 562D, 563D, 564D, 565D, 566D, 567D, 568D, 569D, 570D, 571D, 572D, 573D, 574D, 575D, 576D, 577D, 578D, 579D, 580D, 581D, 582D, 583D, 584D, 585D, 586D, 587D, 588D, 589D, 590D, 591D, 592D, 593D, 594D, 595D, 596D, 597D, 598D, 599D, 600D, 601D, 602D, 603D, 604D, 605D, 606D, 607D, 608D, 609D, 610D, 611D, 612D, 613D, 614D, 615D, 616D, 617D, 618D, 619D, 620D, 621D, 622D, 623D, 624D, 625D, 626D, 627D, 628D, 629D, 630D, 631D, 632D, 633D, 634D, 635D, 636D, 637D, 638D, 639D, 640D, 641D, 642D, 643D, 644D, 645D, 646D, 647D, 648D, 649D, 650D, 651D, 652D, 653D, 654D, 655D, 656D, 657D, 658D, 659D, 660D, 661D, 662D, 663D, 664D, 665D, 666D, 667D, 668D, 669D, 670D, 671D, 672D, 673D, 674D, 675D, 676D, 677D, 678D, 679D, 680D, 681D, 682D, 683D, 684D, 685D, 686D, 687D, 688D, 689D, 690D, 691D, 692D, 693D, 694D, 695D, 696D, 697D, 698D, 699D, 700D, 701D, 702D, 703D, 704D, 705D, 706D, 707D, 708D, 709D, 710D, 711D, 712D, 713D, 714D, 715D, 716D, 717D, 718D, 719D, 720D, 721D, 722D, 723D, 724D, 725D, 726D, 727D, 728D, 729D, 730D, 731D, 732D, 733D, 734D, 735D, 736D, 737D, 738D, 739D, 740D, 741D, 742D, 743D, 744D, 745D, 746D, 747D, 748D, 749D, 750D, 751D, 752D, 753D, 754D, 755D, 756D, 757D, 758D, 759D, 760D, 761D, 762D, 763D, 764D, 765D, 766D, 767D, 768D, 769D, 770D, 771D, 772D, 773D, 774D, 775D, 776D, 777D, 778D, 779D, 780D, 781D, 782D, 783D, 784D, 785D, 786D, 787D, 788D, 789D, 790D, 791D, 792D, 793D, 794D, 795D, 796D, 797D, 798D, 799D, 800D, 801D, 802D, 803D, 804D, 805D, 806D, 807D, 808D, 809D, 810D, 811D, 812D, 813D, 814D, 815D, 816D, 817D, 818D, 819D, 820D, 821D, 822D, 823D, 824D, 825D, 826D, 827D, 828D, 829D, 830D, 831D, 832D, 833D, 834D, 835D, 836D, 837D, 838D, 839D, 840D, 841D, 842D, 843D, 844D, 845D, 846D, 847D, 848D, 849D, 850D, 851D, 852D, 853D, 854D, 855D, 856D, 857D, 858D, 859D, 860D, 861D, 862D, 863D, 864D, 865D, 866D, 867D, 868D, 869D, 870D, 871D, 872D, 873D, 874D, 875D, 876D, 877D, 878D, 879D, 880D, 881D, 882D, 883D, 884D, 885D, 886D, 887D, 888D, 889D, 890D, 891D, 892D, 893D, 894D, 895D, 896D, 897D, 898D, 899D, 900D, 901D, 902D, 903D, 904D, 905D, 906D, 907D, 908D, 909D, 910D, 911D, 912D, 913D, 914D, 915D, 916D, 917D, 918D, 919D, 920D, 921D, 922D, 923D, 924D, 925D, 926D, 927D, 928D, 929D, 930D, 931D, 932D, 933D, 934D, 935D, 936D, 937D, 938D, 939D, 940D, 941D, 942D, 943D, 944D, 945D, 946D, 947D, 948D, 949D, 950D, 951D, 952D, 953D, 954D, 955D, 956D, 957D, 958D, 959D, 960D, 961D, 962D, 963D, 964D, 965D, 966D, 967D, 968D, 969D, 970D, 971D, 972D, 973D, 974D, 975D, 976D, 977D, 978D, 979D, 980D, 981D, 982D, 983D, 984D, 985D, 986D, 987D, 988D, 989D, 990D, 991D, 992D, 993D, 994D, 995D, 996D, 997D, 998D, 999D, 1000D	10
			Liquid Nitrogen Tank	Thermo Scientific™ Locator 6 Rack and Box System. Cat#: CY509113, Capacity 184 Liters, Vial Capacity: 6000 vials, average daily consumption 0.99Liter, diameter X height 26" " X 37.5" " inches,	2
			Cryotube boxes	Storage Cryotube box tube array 10x10 , plastic, 100 well for 1.8ml microcentrifuge tubes, Packing 100pc/case, shape: Squar, colour: White	500
			Crovials	2ml Cryovial, pack of 1000pc	5
			Desktop computer	HP Z4 Tower G4 Workstation with i9 (12 cores) Windows 10 Pro (available through downgrade rights from Windows 11 Pro) Intel® Core™ i932 GB RAM 1 TB SSD. Cat#: 523Q5EA#ABU	2
5	Kenya	Kenya Medical Research Institute (KEMRI)	Upright ULT low Freezer Capacity 816L (28.8cu.Ft.), -86°C with Freezer Racks (Sliding Drawer Rack, 25 Boxes Per Rack)	Features: Designed to meet the highest protection and sustainability standards for ultra-low storage User-friendly design and lab footprint. user interface with capacitive touch screen Best peak variation of energy-efficient ultra-low freezers: less than 5°C Fastest door opening recovery on the market: 17 minutes Best overall temperature uniformity: < 5.2°C with door openings, < 4.0°C with no door openings Long warm-up time from -80°C to -50°C at 5.05 hours Low energy usage: less than 8 kWh/day depending on size Designed to limit environmental impact and protect your budget Technical Specifications: Temperature range: -50°C to -86°C Rack Capacity 24 Capacity: 28.8 CU.Ft (816L) 5cm (2") cryobox capacity: 600 Power supply: 230V / 50Hz Interior Dimensions: 130.1 x 87.3 x 71.9 (H x W x D)cm Exterior Dimensions: 198.1 x 100.6 x 95.5 (H x W x D)cm Freezer Shipping Weight: 347kg Freezer racks:	2
			Biosafety Cabinet Class III	Features: Class III biological safety cabinets combine safety, energy efficiency Front window – 8mm toughened glass, anti-ultraviolet radiation Technical specification: External dimension: 1790*880*2080mm, 4Ft One pair of 800mm butyl rubber gloves Pressure ≥ negative 120pa Front window 8mm toughened glass, anti-ultraviolet radiation Display LCD display Pre-filter – polyester fiber, washable Power supply: 230v, 50/60Hz, Protection class: 1/IP20 Pass Box Size (W*D*H): Internal size: 430*330*355mm ULPA Filter: Air supply filter: Efficiency 999.99955% at 0.12µm First exhaust filter: Efficiency 999.99955% at 0.12µm Second exhaust filter: Efficiency 999.99955% at 0.12µm Noise: ≤67Db Work Zone Material: 304 stainless steel Alarm: Audio and visual alarm, abnormal pressure: filter replacement Illumination: ≥ 1000lux Power supply: AC220V±10%, 50/60 Hz Package size (W*D*H): 1890*1065*2250mm	2

6	Gabon	International Centre for Medical Research In Franceville (CIRMF)	Freezer -150°C	Arctiko CRYO 230 Cryogenic freezer -150°C Dual cooling system for double security Low energy consumption Low noise level Visual and acoustic alarms Contact for remote alarm Digital display Temperature chart recorder Battery back up Porthole for external temperature probe 100% CFC/HCFC free Prepared for LN2 Backup (Optional) Temperature range (°C): -140 / -150 Max. ambient temperature: (°C) 30 Capacity (L): 233 Visual / acoustic alarm: yes / yes Power failure alarm: yes Adjustable high / low temperature alarm: yes / yes Probe failure alarm: yes	1
			Freezers -80°C	Type: Ultra-Low Freezer, Upright Capacity (Metric): 816 L Door Style: 1 Outer, 4 Inner Inner Doors: 4 Interior: Stainless Steel Capacity (English) Shelf: 245 lb. Rack Capacity: 12 Display: HIC 5.6 in. 7-segment display with capacitive touch buttons Dimensions (DxWxH) Exterior: 38.5 x 39.6 x 78 in. (97.7 x 100.6 x 198.1 cm) Monitoring Options: Alarm, Recorder Connectivity: External Monitoring/Cloud Compatible; 4-20mA, RS485, Dry Contacts Amperage: 12.7/20 A Voltage: 115 V Frequency: 60 Hz	4
			Liquid nitrogen production system, including installation	StirLIN-1 Economy Liquid Nitrogen System StirLIN-1 Economy as per Technical Specification 80 8120 02 (Incl. water chiller) Cylinder (50L 200bar) helium gas + regulator (European connection) Annual inspection and cleaning kit for StirLIN-1 Economy Stirling Cryogenics service engineer for installation, commissioning & operator training Toolset maintenance Together with the StirLIN-1 Economy, the following options required: Voltage stabilizer (including Power Distribution Cabinet), Gas Tap, Automatic transfer system, Remote	1
			Temperature control and regulation systems	Standard Sensor 2 Channel Air & Product -35 to +40c (Temperature Sensor for -20 freezers) ( #10) SLS Lab Pro Wireless Cryogenic Sensor Amplified (Temperature Sensor for -80 to -150) (#30) Repeater unit - Mains powered with Battery SLS Lab Pro Network System Controller	10
7	Cote d'Ivoire	Pasteur Institute Cote d'Ivoire/Biological Resource Center	01 Temperature management software the OCEAVIEW™ Solution, supplied with 31 probes, 20 recorders, 31calibrators and various accessories (supply, installation, and training)	The OCEAVIEW™ Solution Integrating a local alert system and remote alert by telephone message and email as the Temperature Management System of the Biobank of the Pasteur Institute of Ivory Coast concerning 8 liquid nitrogen cryoconservatives, 8 -80°C freezers; 15 freezers -20°C and including: - 09 Recorders Cobalt X1 data logger : ENR.CX1.P001 HTS Code: 9025805000; Country of Origin: France- integrated in the OCEAVIEW™ Solution - 11 Recorders Cobalt X1 data logger : ENR.CX2.P001 HTS Code: 9025805000; Country of Origin: France- integrated in the OCEAVIEW™ Solution - 08 Probes Pt100 Smart-Sensor -200°C/+50°C (1.4 m): SON.TPT.0010 HTS Code: 9032896040 Country of Origin: China ; Compatible with recorders Cobalt X2, X1, L3, ML3 - 08 Probes Pt100 Smart-Sensor -100°C/+200°C (3.5 m / 11.5 ft) : SON.TPT.0010 HTS Code: 9032896040 Country of Origin: China ; Compatible with recorders Cobalt X2, X1, L3, ML3 - 15 Digital temperature sensor -40°C/+80°C (1 m / 3.3 ft): SON.TNU.0002 HTS Code: 9032896040 Country of Origin: China Digital probe – Compatible with Cobalt X2, X1, L3, ML3 and Cobalt 2 loggers - 08 Calibrators Standard calibration: Pt100 temperature (-196°C, -80°C, 0°C): CAL.TEM.ST03 Standard calibration - 8 Calibrators Standard calibration: Pt100 temperature (-80°C, -40°C, 0°C): CAL.TEM.ST04 Standard calibration - Pt100 temperature (-80°C, -40°C and 0° - 15 Calibrators Standard calibration: External digital temperature (-30°C, -15°C, 0°C, 20°C, 40°C): CAL.TEM.ST01 Standard calibration - External digital Temperature - 01 LoRaWAN Pro Receiver (Ethernet) - 868 MHz: GSR.REC.8007 HTS Code: 8517620090 Country of Origin: United States LoRaWAN Pro Receiver (Ethernet) - 868 MHz - Receiver integrated in the OCEAVIEW™ Solution, Compatible only with recorders Cobalt X2, X1, L3 and ML3.	1
			PHCBI Ultra-Low Temperature TwinGuard -86°C Freezer with Dual Cooling Technology, Model MDF-DU502VX-PE, supplied fully shrouded 16 rack (boxes of 2 ML), and with 01 SVS Stabilizer (Supply, Installation, Training)	TwinGuard -86°C Ultra Low Temperature Upright Freezers with Dual Cooling Technology, Model Number MDF-DU502VX-PE Fully hulled: 16 racks External dimensions (W x D x H) 1) mm 790 x 882 x 1993 Internal dimensions (W x D x H) mm 630 x 600 x 1400 Volume: 528 liters, Net weight: 285 kg, Capacity Boxes of 2ML: 384 boxes Cooling performance: -86°C Temperature setting range: -50 to -90°C Temperature control range: -50 to -86°C Controller: Microprocessor, non-volatile memory Display: LCD touch screen, Temperature sensor: Pt-1000 Refrigeration system: Dual self-contained Dual-Cooling cooling circuit Compressors: 2 x 1100 W; Refrigerant: MU-N502; Refrigerant weight: 510g Refrigerant GWP for each cooling circuit: 5313 Total refrigerant weight (CO2 equivalent) t 5.419 PUF/VIP Plus insulation material Insulation thickness: 80 mm Exterior material: Painted steel, Interior material: Painted steel Exterior doors (qty): 1, Exterior door lock: Yes	3



			<p>PHBCI brand freezer, -30°C Biomedical, Model MDF-MU539HL-PE, supplied with the complete racks (boxes of 2 MJ), and 01 SVS Stabilizer</p>	<p>PHBCI brand freezer, -30°C Biomedical, Model MDF-MU539HL-PE, External dimensions (W x D x H) 793 x 770 x 1802 mm Internal dimensions (W x D x H) 649 x 614 x 1262 mm Volume: 504 liters Net weight: 144 kg Cooling performance: -30°C Temperature setting range: -18 to -35°C Temperature control range: -20 to -30°C Controller Microprocessor, non-volatile memory LED display Temperature sensor: Thermistor Refrigeration system: Direct Compressors: 400 (Inverter control) Refrigerant: HC Exterior door 2; Exterior door lock Y; Interior doors - Shelves: 06; Max load per shelf: 30 kg; Access port: 1 Rear position access port Access port diameter: 30; Casters 4 [2 leveling feet] Electrical failure: G-B-R; High temperature: G-B-R; Low temperature: G-B-R Filter -</p>	1
8	Senegal	Pasteur Institute Dakar	<p>Class II hood for TECAN Evo150 robot: equipment, transport, installation, qualification, training</p>	<p>H-BOX 22-11-012 Robots Conforme à la norme EN 12469 Classe ISO 5 Dimensions extérieures en mm : 2 300 x 1 300 x 2 480 Dimensions intérieures totale en mm : 2 200 x 1 100 x 1 160 Dimensions intérieures utiles en mm : 2 000 x 900 x 1 160 Dispose d'une alarme visuelle et sonore Dispose de prises DOP pour l'intégrité des filtres, Goulotte éjection cônes pour H-BOX</p>	1
			<p>Lock Door Hood</p>	<p>LOCK DOOR HOOD + ACTUATOR + CABLE Ref Doorlock : Ref / TP4-2131A024M Ref Languette articulée: Ref 070050 Brand: TECAN Labwerx</p>	1

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