PHILIPPINE BIDDING DOCUMENTS

Procurement of GOODS

Government of the Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY REGION VI

BID No. 2023-01

Procurement of Laboratory Equipment for "Smarter OneLab for Industry 4.0 through Testing and Calibration, Education, and Discovery Project"

Sixth Edition July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the "name of the Procuring Entity" and "address for bid submission," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

Table of Contents

Gloss	ary of Acronyms, Terms, and Abbreviations	4
	on I. Invitation to Bid	
	on II. Instructions to Bidders	
1.	Scope of Bid	
2.	Funding Information	
3.	Bidding Requirements	
4.	Corrupt, Fraudulent, Collusive, and Coercive Practices	
5. •	Eligible Bidders	
6.	Origin of Goods	
7.	Subcontracts	
8.	Pre-Bid Conference	12
9.	Clarification and Amendment of Bidding Documents	
10.	Documents comprising the Bid: Eligibility and Technical Components	
11.	Documents comprising the Bid: Financial Component	
12.	Bid Prices	13
13.	Bid and Payment Currencies	
14.	Bid Security	14
15.	Sealing and Marking of Bids	
16.	Deadline for Submission of Bids	
17.	Opening and Preliminary Examination of Bids	
18.	Domestic Preference	
19.	Detailed Evaluation and Comparison of Bids	15
20.	Post-Qualification	
21.	Signing of the Contract	
Section	n III. Bid Data Sheet	17
Section	n IV. General Conditions of Contract	19
1.	Scope of Contract	20
2.	Advance Payment and Terms of Payment	20
3.	Performance Security	
4.	Inspection and Tests	
5.	Warranty	
6.	Liability of the Supplier	21
Section	n V. Special Conditions of Contract	
Section	NI. Schedule of Requirements	27
	VII. Technical Specifications	
	VIII. Checklist of Technical and Financial Documents	

Glossary of Acronyms, Terms, and Abbreviations

ABC - Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR - Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF - Cost Insurance and Freight.

CIP - Carriage and Insurance Paid.

CPI - Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means "delivered duty paid."

DTI - Department of Trade and Industry.

EXW - Ex works.

FCA – "Free Carrier" shipping point.

FOB – "Free on Board" shipping point.

Foreign-funded Procurement or Foreign-Assisted Project—Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as "Call-Offs," are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC - Government-owned and/or -controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national

buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC - Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC - Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN - United Nations.

Section I. Invitation to Bid





INVITATION TO BID FOR

Procurement of Laboratory Equipment for "Smarter OneLab for Industry 4.0 through Testing and Calibration, Education, and Discovery Project" (BID 2023-01)

- 1. The Department of Science and Technology Region VI (DOST VI), through the General Appropriations Act 2023 intends to apply the sum of Twenty-Five Million Nine Hundred Ninety Thousand Pesos (PhP25,990,000.00) being the ABC to payments under the contract for Procurement of Laboratory Equipment for "Smarter OneLab for Industry 4.0 through Testing and Calibration, Education, and Discovery Project" (Bid no. 2023-01). Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The *Department of Science and Technology Region VI (DOST VI)* now invites bids for the above Procurement Project. Delivery of the Goods is required *within ninety (90) calendar days upon receipt of Notice to Proceed.* Bidders should have completed, within *three (3) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Prospective Bidders may obtain further information from *Department of Science and Technology Region VI (DOST VI)* and inspect the Bidding Documents at the address given below during 8:00AM to 5:00PM (PST).
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on *March 7, 2023* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Ten Thousand Pesos (PhP 10,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
- 6. The Department of Science and Technology Region VI (DOST VI) will hold a Pre-Bid Conference¹ on March 15, 2023, 10:00AM PST at DOST VI Conference Room, Department of Science and Technology-Region VI, Magsaysay Village, La Paz, Iloilo City, which shall be open to prospective bidders.

Telefax: 320-0908 (Telefax)

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before *March 27, 2023 at 12:00PM PST*. Late bids shall not be accepted.
- 8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.

Bid opening shall be on *March 27*, 2023 at 1:00PM PST at the DOST VI Conference Room, Department of Science and Technology-Region VI, Magsaysay Village, La Paz, Iloilo City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

- 9. The *Department of Science and Technology Region VI (DOST VI)* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 10. For further information, please refer to:

Sharon Rose P. Portillo
BAC Secretariat
Jean Edessa D. Avila
BAC Secretariat
Department of Science and Technology-Region VI
Magsaysay Village, La Paz, Iloilo City
bac@ro6.dost.gov.ph
033-320-0907
033-320-0908
https://region6.dost.gov.ph

11. You may visit the following websites:

For downloading of Bidding Documents: https://region6.dost.gov.ph

March 7, 2023

MAY ROSE O. SUERTE BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, Department of Science and Technology Region VI (DOST VI) wishes to receive Bids for the Procurement of Laboratory Equipment for "Smarter OneLab for Industry 4.0 through Testing and Calibration, Education, and Discovery Project" with identification number Bid no. 2023-01.

The Procurement Project (referred to herein as "Project") is composed of *twenty-two* (22) items, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below in the amount of Twenty-Five Million Nine Hundred Ninety Thousand Pesos (PhP25,990,000.00).
- 2.2. The source of funding is:
 - a. NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex "I" of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
 - a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under ITB Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.
- 7.2. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the IB, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section VIII (Checklist of Technical and Financial Documents).
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within *three* (3) years prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in Section VIII (Checklist of Technical and Financial Documents).
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, exwarehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in the BDS.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in the **BDS**.

13. Bid and Payment Currencies

- 13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 13.2. Payment of the contract price shall be made in:
 - a. Philippine Pesos.

14. Bid Security

14. Dia Security

- 14.1. The Bidder shall submit a Bid Securing Declaration² or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *one hundred twenty (120)* calendar days from the date of opening of bids. Any Bid not accompanied by

² In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed," using non-discretionary pass/fail criteria. The BAC

shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII** (**Technical Specifications**), although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows:

[Select one, delete the other/s]

Option 1 – One Project having several items that shall be awarded as one contract.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

20.2. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB	
Clause	
5.3	For this purpose, contracts similar to the Project shall be:
	a. Procurement of Laboratory Equipment
	b. completed within <i>three (3) years</i> prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed
12	The price of the Goods shall be quoted DDP <i>Iloilo City</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than <i>Five Hundred Nineteen Thousand Eight Hundred and 00/100 Pesos (PhP519,800.00)</i> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or
к	b. The amount of not less than <i>One Million Two Hundred Ninety-Nine Thousand Five Hundred and 00/100 Pesos (PhP1,299,500.00)</i> if bid security is in Surety Bond.
19.3	No further instructions
20.2	No further instructions
21.2	The bidder shall submit one (1) original and two (2) duplicate copies of the first and second components of its Bid, both of which should be placed in one mother envelope.

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC).**

2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the SCC.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the SCC, Section VII (Technical Specifications) shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 5.1 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 5.2 The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

	Special Conditions of Contract
GCC	
Clause	
	Delivery and Documents – For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:
	"The delivery terms applicable to this Contract are delivered <i>lloilo City</i> , <i>Philippines</i> . Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the
	terms specified in Section VI (Schedule of Requirements).
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is Ms. Ma. Lina B. Gelonga, Senior Science Research Specialist.
	Incidental Services –
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:
	Select appropriate requirements and delete the rest.
	a performance or supervision of on-site assembly and/or start-up of the
	supplied Goods; b.furnishing of tools required for assembly and/or maintenance of the supplied Goods;
	c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
	d.performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
	e.training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts -

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- 1. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
- 2. in the event of termination of production of the spare parts:
 - i.advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
 - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI** (**Schedule of Requirements**) and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of *three times* the warranty period.

Spare parts or components shall be supplied as promptly as possible, but in any case, within one (1) month of placing the order.

Packaging -

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity
Name of the Supplier
Contract Description
Final Destination
Gross weight
Any special lifting instructions
Any special handling instructions
Any relevant HAZCHEM classifications

A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.

Transportation -

Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.

Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure. The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination. Intellectual Property Rights -The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof. The terms of payment shall be as follows: payment shall be allowed after complete delivery and acceptance of the goods. The inspections and tests that will be conducted are: *Inspections and tests to be* conducted by the DOST VI Inspection Committee and End-user Representative with the assistance of the supplier.

2.2

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Weeks/Months
	Microwave Digester -dual magnetron of about 1900 Watts or higher; -large microwave cavity minimum of 70.5L; - 2 sets of segmented rotor, (i) capable of high pressure (upto 100 bar) and temperature (upto 300C) digestion upto 15 placer or higher, (ii) capable of 40 or more samples every system run; - Pressure sensitive door with safety locks to eliminate microwave leak and with visual status monitoring, and; - with built-in exhaust system; -equipped with temperature (individual contactless temperature monitoring) and pressure controls and monitoring system; -vessels are equipped for high pressure and resealable without consumables; -accessible and controllable remotely; -compliant to 21 CPR Part II and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's site. -includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts.	1 unit	4,800,000.00	Within 90 calendar days upon receipt of Notice to Proceed
2	Hydride vapor generator for MPAES and other accessories -Multi-mode Sample Introduction System The Multimode Sample Introduction System capable of simultaneous vapor generation for As and Se; enables measurement of major and minor elements in the same run; plus additional spare MSIS assembly; to include Drain tubing assembly, Capillary tubing 0.01 in ID by 0.03 in OD to join to peristaltic pump tubing for reductant inlet, and Sample peristaltic pump tubing for reductant and waste (1 tube each). - two (2) easy-fit torch for 4200 MPAES - Five (5) inlet cooling air filters - one (1) unit Air Dryer or Filter/cartridge replacement of Air dryer - one (1) unit Nitrogen Generator or Filter/cartridge replacement of Nitrogen Generator - pneumatic hose and tubings -includes delivery, installation, and commissioning -includes at least two (2) years warranty on services (preventive maintenance and calibration) and parts.	1 lot	1,000,000.00	Within 90 calendar days upon receipt of Notice to Proceed
3	Type I Water Purification System -Type I Water Producer or Water deionizer; -Product water must be a high quality reagent water with resistivity of 18.2 MΩ-cm, Conductivity of <0.1μmho/cm, and SiO2 of <0.05mg/L, TOC of ≤ 5 ppb; -uses continuous electrodeionization technology for effecient removal of impurities; -includes all pretreatment accessories; with Mercury-free UV lamp; -with monitoring and controls for checking resistivity, conductivity, TDS, temperature, silicates, and TOC of output water;	I unit	1,200,000.00	Within 90 calendar days upon receipt of Notice to Proceed

4	-include at least 30L PE reservoir for clean water; -to include complete filters and cartridges (i.e. RO and ultrapure) plus 1 complete spare set of consummable cartridges/filters; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusersincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts. Digital burette, -Digital bottletop burette; -50mL capacity; - no exposed glassware, -angled dighital display, - turning wheels capable of dispensing and displaying 0.01 to 999.9 mL, -continuous pulse-free vibrations, with safety recirculating valve, - all contact parts must be resistant to low acid or base solutions; - meet the ISO and GLP requirements; with Certificate of Calibration; - to include adjustable filling tubes and all plastic fittings to different reagent bottles; - all necessary accessories to run the system.	l unit	150,000.00	Within 90 calendar days upon receipt of Notice to Proceed
5	Direct mercury analyzer -Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; - with Hg Trap; - with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; - includes all necessary accessories and consummables to run the system; - includes delivery, installation, commissioning and training of endusers at manufacturer's site includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts	1 unit	5,100,000.00	Within 90 calendar days upon receipt of Notice to Proceed
6	Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; - 350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller), - built-in vent system and overtemp protection control; -heavy-duty door with safety door lock; - firebrick hearth collar or with highly efficient ceramic insulation; - CSA and ISO standards compliant; - with 1 unit of AVR; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers - includes at least two (2) years warranty on services and parts.	lunit	270,000.00	Within 90 calendar days upon receipt of Notice to Proceed

7	Enzymatic Digester for dietary fiber -6-placer or more, hotplate with magnetic stirrers or enclosed water bath; -transparent chamber for visibility and temperature resistant; - enclosed system with temperature regulation and overheating controls; -to include filtration system or fiber filtration module complete with vacuum and pressure controls and compatible to P2 fiber crucibles; - includes complete 2 sets of P2 crucibles, stir bars, and 400-mL flasks/beakers tall form or incubation flasks;	lunit	800,000.00	Within 90 calendar days upon receipt of Notice to Proceed
	-includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts.			
8	Refrigerated Incubator '- Twin Room (2 chamber- Incubator) - Temperature Range: -5°C to 70°C, Adjustable - Accuracy: ± 0.2°C - Digital Display - Approx. 500 L Volume (Approx. 250 L volume per Chamber) - Separate temperature setting per chamber - at least 3 shelves per chamber, adjustable, stainless steel - stainless steel interior material - over/under temperature protector safety device - double door (tempered glass inner door) - with caster wheels (w/ lock) for easy mobility - Power: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning	1 unit	800,000.00	Within 90 calendar days upon receipt of Notice to Proceed
9	Autoclave - automatic autoclave, vertical loading type, Power: 220V-240V - 50L-60L chamber capacity, stainless steel - Working temp & pressure: adjustable 105- 136oC/±0.5oC accuracy, 0-3kg/cm2, - with temperature and pressure digital display - adjustable timer and alarm system - suitable for both liquid and solid (utensils, glasswares, etc) sterilization -with caster wheels with lock for easy mobility - with safety features e.g. overheating, water level, over pressure indicator/sensor - with product certification/approval by a certifying/notified body - includes 2 pcs wire baskets, stainless steel, that fit in the chamber in one single loading; and additonal 2 pcs spare wire baskets, stainless steel - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning	l unit	320,000.00	Within 90 calendar days upon receipt of Notice to Proceed

10	Molecular Detection System (for the Detection of Food Pathogens) A. Molecular Detection System Machine (Main Unit) Rapidly detects Salmonella spp, Listeria spp., Listeria monocytogenes, Campylobacter spp., E.coli O157:H7, Cronobacter spp. using DNA molecule targeting identification technology - Uses loop-mediated isothermal amplification or equivalent technology to rapidly identify and detect pathogens with high specificity and sensitivity - Specific primers for DNA amplification of target pathogens - Combines bioluminescence or equivalent to detect the amplification - Performs up to 96 tests of multiple pathogen types in one run (may include controls) - Single protocol for all pathogens indicated preferably AOAC Validated Methods (Official Method of Analysis or OMA) - Detection of initial positive results in as early as 15 minutes continued below	unit	2,900,000.00	Within 90 calendar days upon receipt of Notice to Proceed
	Molecular Detection System (for the Detection of Food Pathogens) - Presumptive positive results are reported in real-time of not more than 60 minutes - Negative results are displayed after the run of not more than 60 minutes - With internal controls/ reagents to check for integrity of assays - Single protocol for all pathogens indicated - With free software - With locally available after sales service B. Heat Block Digital Incubator - Dry Block heating unit that fits the heat block insert - Temperature: 105-110°C - Power: 220 VAC C. Heat Block Insert - Compatible with the Heat Block Digital Incubator D. Matrix Control Kit (96 tests/kit) E. Salmonella spp Assay Kit (4 kits; 96 tests/kit) F. Enrichment media for Salmonella spp (good for 4 Salmonella Assay Kits) G. Escherichia coli Assay Kit (2 kits; 96 tests/kit) H. Enrichment media for Escherichia coli (good for 2 Escherichia coli Assay Kits) I. Accessories: -One(1) Single Channel Pipettor (2-20μL) -One (1) bes 20μL Sterile Pipette Tips with filter (1000tips/box) - One (1) unit Uninterruptible Power Supply (UPS) that can sustain the power supply during the entire run of samples contiued below			
	Molecular Detection System (for the Detection of Food Pathogens) -One (1) unit Laptop with the following specifications: * Operating System: Windows 10 or latest with MS Office installed * Processor: Ryzen 7, at least 5700 U, OctaCore, at least 1.8Ghz * Memory: 16 GB * Storage: at least 256 GB SSD			

	* Screen Size: at least 15 inches * Screen Resolution: 1920 x 1080 * Graphics: NVIDIA GeForce GTX 1650 * Network: Gigabit Ethernet and Wireless LAN * Ports: at least 2 USB ports, 1 HDMI port and 1 earphone/ headphone * with Laptop bag and wireless mouse J. After Sales - with free software installation - With Installation Qualification, Operational Qualification and Performance Qualification - With technical assistance on method validation/verification to establish confidence in employing the system - with product training for laboratory personnel on the use of the equipment and method - provision of service unit in the event of unit problem and when the unit will be sent for calibration - minimum of one year warranty on parts and service - with at least two (2) years preventive maintenance service coverage and calibration service to maintain optimum performance of the equipment				
11	Incubator '- Temperature Range: ambient +5°C to 100°C, Adjustable - Accuracy: ± 0.1°C - Digital Display - Approx. 50-60 L Volume - stainless steel shelves - stainless steel interior material - over/under temperature protector safety device - double door (tempered glass inner door) - Power: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning	1 ur	uit	350,000.00	Within 90 calendar days upon receipt of Notice to Proceed
12	Incubator '- Temperature Range: 0°C to 70°C, Adjustable - Compressor-cooled incubator - Accuracy: ± 0.1°C - Digital Display - Approx. 50-60 L Volume - stainless steel shelves - stainless steel shelves - stainless steel interior material - over/under temperature protector safety device - double door (tempered glass inner door) - with caster wheels (w/ lock) for easy mobility - Power: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning	I un	it	350,000.00	Within 90 calendar days upon receipt of Notice to Proceed

	F			-
13	Coliform bath '- Circulating Coliform water bath - 35-40 L bath volume capacity - Temperature range: ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Accuracy of ± 0.1 °C - Resolution of 0.1 °C - Digital Display - Stainless steel chamber - With built -in easy-to-drain/empty system - With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning	I unit	250,000.00	Within 90 calendar days upon receipt of Notice to Proceed
14	pH/ Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)continued below	1 unit	290,000.00	Within 90 calendar days upon receipt of Notice to Proceed
	pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C *accuracy: ± 0.1 °C *resolution:0.1 °C *compensation: Automatic (0.0 to 100.0 °C) *normalization: 15.0 to 30.0 °C - Accessories/Consumable *3 bottles of pH Buffer/ one bottle (at least 1 liter) for pH 4, pH 7 and pH 10, June 2024 or beyond Expiry date *1 bottle (Conductivity standard 1412µS, June 2024 or beyond Expiry date *Additional One (1) pH Electrode and One (1) Conductivity/ATC probe *testing solutions for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity - includes at least one (1) year warranty - includes delivery, installation, and commissioning			

15	Analytical Balance Capacity: at least 220 g Readability: 0.1 mg or better Minimum Weight: at most 20 mg Built-in Calibration Weight Must be Compliant with USP Chapter 41 Display: Wear Resistant LED Touchscreen Including: Installation, Commissioning; Training, Warranty and Preventive Maintenance	1 unit	200,000.00	Within 90 calendar days upon receipt of Notice to Proceed
16	2700G-BG3.5M Reference Pressure Gauge Reference Pressure Gauge, -12 to 500 psi (Resolution: 0.01 psi)	1 unit	125,000.00	Within 90 calendar days upon receipt of Notice to Proceed
17	2700G-BG200K/C Reference Pressure Gauge with Accreditation Reference Pressure Gauge, -15 to 30 psi (Resolution: 0.001 psi)	I unit	125,000.00	Within 90 calendar days upon receipt of Notice to Proceed
18	Ultra-Cool Field Metrology Well/Multi-Channel Data Logger Capacity: -90 °C to ambient Temperature Resolution: 0.01 °C Compatible with Thermocouple Type K Automatic internal reference junction compensation Sample Rate: Capable of 10 channels per second At least 9 channels Display resolution: 6 1/2 digits Can be interfaced with a USB device Must include accessories: o Laptop Computer o Multifunction process calibrator o Carrying Case o Thermocouple Spot Welder o At least one (1) roll of Thermocouple Type K (1 roll = 50 meters) Including: Installation, Commissioning; Training, Warranty and Preventive Maintenance	1 unit	2,100,000.00	Within 90 calendar days upon receipt of Notice to Proceed
19	Field Metrology Well/Multi-Channel Data Logger Capacity: -90 °C to ambient to 660 °C Temperature Resolution: 0.01 °C At least 9 channels All channels isolated for temperature measurements. Preferably: capable of measuring humidity aside from temperature Compatible with Thermocouple Type K Automatic internal reference junction compensation Sample Rate: up to 10 mscontinued in the next page	1 unit	800,000.00	Within 90 calendar days upon receipt of Notice to Proceed

	Field Metrology Well/Multi-Channel Data Logger Must include accessories: o Laptop Computer o Carrying Case Including: Installation, Commissioning; Training, Warranty and Preventive Maintenance			
20	10 L cap. Test Measure Reference Standard Type 304 Stainless Steel Scale Resolution: 5 mm Tolerance: 0.02% Scale Accuracy Equipped with a (liquid-level) gauge tube mounted on the side of the neck Built to OIML R-120 Grip: Rubber on test measure handle Volume Indication: Aluminum graduated scale	1 unit	100,000.00	Within 90 calendar days upon receipt of Notice to Proceed
21	Mass Comparator Type 304 Stainless Steel Scale Resolution: 5 mm Tolerance: 0.02% Scale Accuracy Equipped with a (liquid-level) gauge tube mounted on the side of the neck Built to OIML R-120 Grip: Rubber on test measure handle Volume Indication: Aluminum graduated scale Includes delivery, installation, calibration and commissioning	l unit	3,800,000.00	Within 90 calendar days upon receipt of Notice to Proceed
22	Test Weights: Class F1 accuracy knob style 1 kg, 2 kg, 5 kg, 10 kg and 20 kg Nominal Value/s: 1 kg, 2 kg, 5 kg, 10 kg Material: Stainless Steel Shape: Cylindrical with handling knob Inclusion: With Wooden Box	l unit	160,000.00	Within 90 calendar days upon receipt of Notice to Proceed

Section VII. Technical Specifications

Technical Specifications

Itam	Specification	
Item	Specification	Statement of Compliance
		ID: diame and at at a lease
		[Bidders must state here
		either "Comply" or "Not
		Comply" against each of
		the individual parameters
		of each Specification
		stating the corresponding
		performance parameter of
		the equipment offered.
		Statements of "Comply"
		or "Not Comply" must be
		supported by evidence in a
		Bidders Bid and cross-
		referenced to that
		evidence. Evidence shall
		be in the form of
		manufacturer's un-
		amended sales literature,
		unconditional statements
		of specification and
		compliance issued by the
		manufacturer, samples,
		independent test data etc.,
		as appropriate. A
		statement that is not
		supported by evidence or
		is subsequently found to
		be contradicted by the
		evidence presented will
		render the Bid under
		evaluation liable for
		rejection. A statement
		either in the Bidder's
		statement of compliance
		or the supporting evidence
		that is found to be false
		either during Bid
		evaluation, post- qualification or the
		execution of the Contract may be regarded as
		fraudulent and render the
		Bidder or supplier liable
		for prosecution subject to
		the applicable laws and
		issuances.]
		L

2	1 unit ABC: 4,800,000.00 Microwave Digester -dual magnetron of about 1900 Watts or higher; -large microwave cavity minimum of 70.5L; - 2 sets of segmented rotor, (i) capable of high pressure (upto 100 bar) and temperature (upto 300C) digestion upto 15 placer or higher, (ii) capable of 40 or more samples every system run; - Pressure sensitive door with safety locks to eliminate microwave leak and with visual status monitoring, and; - with built-in exhaust system; -equipped with temperature (individual contactless temperature monitoring) and pressure controls and monitoring system; -vessels are equipped for high pressure and resealable without consumables; -accessible and controllable remotely; -compliant to 21 CPR Part II and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts. Deliver within 90 calendar days upon receipt of Notice to Proceed 1 lot A DCC ACC OCC CO.
	ABC: 1,000,000.00 Hydride vapor generator for MPAES and other accessories -Multi-mode Sample Introduction System The Multimode Sample Introduction System capable of simultaneous vapor generation for As and Se; enables measurement of major and minor elements in the same run; plus additional spare MSIS assembly; to include Drain tubing assembly, Capillary tubing 0.01 in ID by 0.03 in OD to join to peristaltic pump tubing for reductant inlet, and Sample peristaltic pump tubing for reductant and waste (1 tube each). - two (2) easy-fit torch for 4200 MPAES - Five (5) inlet cooling air filters - one (1) unit Air Dryer or Filter/cartridge replacement of Air dryer - one (1) unit Nitrogen Generator or Filter/cartridge replacement of Nitrogen Generator - pneumatic hose and tubings -includes delivery, installation, and commissioning -includes at least two (2) years warranty on services (preventive maintenance and calibration) and parts. Deliver within 90 calendar days upon receipt of Notice to Proceed
3	1 unit ABC: 1,200,000.00 Type I Water Purification System -Type I Water Producer or Water deionizer; -Product water must be a high quality reagent water with resistivity of 18.2 MΩ-cm, Conductivity of <0.1μmho/cm, and SiO2 of <0.05mg/L, TOC of ≤5 ppb; -uses continuous electrodeionization technology for effecient removal of impurities; -includes all pretreatment accessories; with Mercury-free UV lamp; -with monitoring and controls for checking resistivity, conductivity, TDS, temperature, silicates, and TOC of output water; -include at least 30L PE reservoir for clean water; -to include complete filters and cartridges (i.e. RO and

	ultrapure) plus 1 complete spare set of consummable
	cartridges/filters;
	-includes all necessary accessories and consummables to
	run the system;
	-includes delivery, installation, commissioning and
	training of endusers.
	-includes at least two (2) years warranty on services
	(preventive maintenance and necessary calibration) and
	parts.
	11
	Deliver within 90 calendar days upon receipt of Notice to
	Proceed
4	
	1 unit
	ABC : 150,000.00
	Digital burette,
	-Digital bottletop burette;
	-50mL capacity;
	- no exposed glassware,
	-angled dighital display,
	- turning wheels capable of dispensing and displaying 0.01
	to 999.9 mL.
	-continuous pulse-free vibrations, with safety recirculating
	valve.
	- all contact parts must be resistant to low acid or base
	solutions;
	- meet the ISO and GLP requirements; with Certificate of
	Calibration;
	- to include adjustable filling tubes and all plastic fittings
	to different reagent bottles;
	- all necessary accessories to run the system.
	an accessary accessories to tail the system.
	Deliver within 90 calendar days upon receipt of Notice to
	Proceed
5	1 unit
	ABC: 5,100,000.00
1	
1 1	Direct moreum analyzan
	Direct mercury analyzer Complete mercury detection eveters
	-Complete mercury detection system;
	-Complete mercury detection system; - requires no digestion and sample preparation;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system;
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's site.
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and
	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; - with Hg Trap; - with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; - includes all necessary accessories and consummables to run the system; - includes delivery, installation, commissioning and training of endusers at manufacturer's site includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20 - or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; - with Hg Trap; - with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; - includes all necessary accessories and consummables to run the system; - includes delivery, installation, commissioning and training of endusers at manufacturer's site includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace;
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20 - or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb, - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; -350 cubic inch volume capacity or similar,
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; -350 cubic inch volume capacity or similar, - digital temperature display and with programmable
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; - 350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller),
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; - with Hg Trap; - with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; - includes all necessary accessories and consummables to run the system; - includes delivery, installation, commissioning and training of endusers at manufacturer's site includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; - 350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller), - built-in vent system and overtemp protection control;
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; - 350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller),
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1 ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; -350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller), - built-in vent system and overtemp protection control; -heavy-duty door with safety door lock;
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0,0003ng of Hg; - precision of 1% at 1 ngHg, -with Hg Trap; -with Hg Trap; -with accessory for drinking water analysis with detection limit of 1ppb, - compliant to EPA 7473, ASTM-6722 and ISO standards; -includes all necessary accessories and consummables to run the system; -includes delivery, installation, commissioning and training of endusers at manufacturer's siteincludes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; -350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller), - built-in vent system and overtemp protection control; -heavy-duty door with safety door lock; - firebrick hearth collar or with highly efficient ceramic insulation;
6	-Complete mercury detection system; - requires no digestion and sample preparation; - fast analysis maximum of 6 minutes; - includes at least 20 quartz sample boats and 20 metal boats, and 20- or more placer for auto-sampler system; -no spectral gas requirement; detection limit about 0.0003ng of Hg; - precision of 1% at 1 ngHg; - with Hg Trap; - with Hg Trap; - with accessory for drinking water analysis with detection limit of 1ppb; - compliant to EPA 7473, ASTM-6722 and ISO standards; - includes all necessary accessories and consummables to run the system; - includes delivery, installation, commissioning and training of endusers at manufacturer's site includes at least two (2) years warranty on services (preventive maintenance and necessary calibration) and parts Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 270,000.00 Muffle furnace -Benchtop 1100 or 1200 C muffle furnace; - 350 cubic inch volume capacity or similar, - digital temperature display and with programmable temperature control (C1 controller), - built-in vent system and overtemp protection control; - heavy-duty door with safety door lock; - firebrick hearth collar or with highly efficient ceramic

	-includes all necessary accessories and consummables to
	run the system; -includes delivery, installation, commissioning and
	training of endusers
	-includes at least two (2) years warranty on services and
	parts.
	Deliver within 90 calendar days upon receipt of Notice to Proceed
	to Proceed
7	1 unit
	ABC: 800,000.00
	Enzymatic Digester for dietary fiber
	-6-placer or more, hotplate with magnetic stirrers or enclosed water bath;
	-transparent chamber for visibility and temperature
	resistant;
	- enclosed system with temperature regulation and
	overheating controls;
	-to include filtration system or fiber filtration module complete with vacuum and pressure controls and
	compatible to P2 fiber crucibles;
	- includes complete 2 sets of P2 crucibles, stir bars, and
	400-mL flasks/beakers tall form or incubation flasks;
	-includes all necessary accessories and consummables to run the system;
	-includes delivery, installation, commissioning and
	training of endusers at manufacturer's site.
	-includes at least two (2) years warranty on services
	(preventive maintenance and necessary calibration) and
	parts.
	Deliver within 90 calendar days upon receipt of Notice to
	Proceed
8	1 unit
	ABC: 800,000.00
	Refrigerated Incubator
	'- Twin Room (2 chamber- Incubator) - Temperature Range: -5°C to 70°C, Adjustable
	- Accuracy: ± 0.2°C
	- Digital Display
	- Approx. 500 L Volume (Approx. 250 L volume per
	Chamber) - Separate temperature setting per chamber
	- at least 3 shelves per chamber, adjustable, stainless steel
	- stainless steel interior material
	- over/under temperature protector safety device
	- double door (tempered glass inner door) - with caster wheels (w/ lock) for easy mobility
	- Power: 220VAC
	- with product certification/approval by a
	certifying/notified body
	- includes at least two (2) years warranty on service and parts
	- includes delivery, installation, calibration and
	commissioning
	D. Franciski on a land
	Deliver within 90 calendar days upon receipt of Notice to Proceed
9	1 unit
	- ====
	ABC: 320,000.00
	Autoclave
	- automatic autoclave, vertical loading type, Power:
	220V-240V
	- 50L-60L chamber capacity, stainless steel - Working temp & pressure: adjustable 105-
	136oC/±0.5oC accuracy, 0-3kg/cm2,
	- with temperature and pressure digital display
1	- adjustable timer and alarm system
	- suitable for both liquid and solid (utensils, glasswares,
	- suitable for both liquid and solid (utensils, glasswares, etc) sterilization -with caster wheels with lock for easy mobility

	- with safety features e.g. overheating, water level, over pressure indicator/sensor - with product certification/approval by a certifying/notified body - includes 2 pcs wire baskets, stainless steel, that fit in the chamber in one single loading; and additional 2 pcs spare wire baskets, stainless steel - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed
10	1 unit ABC: 2,900,000.00 Molecular Detection System (for the Detection of Food Pathogens) A. Molecular Detection System Machine (Main Unit) - Rapidly detects Salmonella spp, Listeria spp., Listeria monocytogenes, Campylobacter spp., E.coli O157:H7, Cronobacter spp. using DNA molecule targeting identification technology - Uses loop-mediated isothermal amplification or equivalent technology to rapidly identify and detect pathogens with high specificity and sensitivity - Specific primers for DNA amplification of target pathogens - Combines bioluminescence or equivalent to detect the amplification - Performs up to 96 tests of multiple pathogen types in one run (may include controls) - Single protocol for all pathogens indicated preferably AOAC Validated Methods (Official Method of Analysis or OMA) - Detection of initial positive results in as early as 15 minutescontinued below
	Molecular Detection System (for the Detection of Food Pathogens) - Presumptive positive results are reported in real-time of not more than 60 minutes - Negative results are displayed after the run of not more than 60 minutes - With internal controls/ reagents to check for integrity of assays - Single protocol for all pathogens indicated - With free software - With locally available after sales service B. Heat Block Digital Incubator - Dry Block heating unit that fits the heat block insert - Temperature: 105-110°C - Power: 220 VAC C. Heat Block Insert - Compatible with the Heat Block Digital Incubator D. Matrix Control Kit (96 tests/kit) E. Salmonella spp Assay Kit (4 kits; 96 tests/kit) F. Enrichment media for Salmonella spp (good for 4 Salmonella Assay Kits) G. Escherichia coli Assay Kit (2 kits; 96 tests/kit) H. Errichment media for Escherichia coli (good for 2 Escherichia coli Assay Kits) I. Accessories: -One(1) Single Channel Pipettor (2-20µL) -One (1) Bight Channel Piettor (2-20µL) -One (1) box 20µL Sterile Pipette Tips with filter (1000tips/box) - One (1) unit Uninterruptible Power Supply (UPS) that can sustain the power supply during the entire run of samples

	contiued below
	Molecular Detection System (for the Detection of Food
	Molecular Detection System (for the Detection of Food Pathogens) -One (1) unit Laptop with the following specifications: * Operating System: Windows 10 or latest with MS Office installed * Processor: Ryzen 7, at least 5700 U, OctaCore, at least 1.8Ghz * Memory: 16 GB * Storage: at least 256 GB SSD * Screen Resolution: 1920 x 1080 * Graphics: NVIDIA GeForce GTX 1650 * Network: Gigabit Ethernet and Wireless LAN * Ports: at least 2 USB ports, 1 HDMI port and 1 earphone/ headphone * with Laptop bag and wireless mouse J. After Sales - with free software installation - With Installation Qualification, Operational Qualification and Performance Qualification - With technical assistance on method validation/verification to establish confidence in employing the system - with product training for laboratory personnel on the use of the equipment and method - provision of service unit in the event of unit problem and when the unit will be sent for calibration - minimum of one year warranty on parts and service - with at least two (2) years preventive maintenance service coverage and calibration service to maintain optimum performance of the equipment Deliver within 90 calendar days upon receipt of Notice to Proceed
11	1 unit ABC: 350,000.00 Incubator '- Temperature Range: ambient +5°C to 100°C, Adjustable - Accuracy: ± 0.1°C - Digital Display - Approx. 50-60 L Volume - stainless steel shelves - stainless steel interior material - over/under temperature protector safety device - double door (tempered glass inner door) - Power: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed
12	1 unit ABC: 350,000.00 Incubator '- Temperature Range: 0°C to 70°C, Adjustable - Compressor-cooled incubator - Accuracy: ± 0.1°C - Digital Display - Approx. 50-60 L Volume

- stainless steel interior material - over/under temperature protector safety device - double door (temperat glass inner door) - with caster wheels (w/ lock) for easy mobility - Power, 220/VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and includes delivery, instillation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 13 1 unit - ABC: 250,000.00 Coliform bath - Circulating Coliform water bath - 33-40.1 bath volume capacity - Temperature mange ambient + 5°C to 100 °C - Digital Temperature setting/ adjustment - Accuracy of of 1°C - Digital Temperature setting/ adjustment - Very Coliform water bath - Service of 1°C - Digital Temperature setting/ adjustment - With built -in casy-to-drain/empty system - With initial best of 1°C - Digital Display - Stainless steel chamber - With initial set of the old immersion thermometer - over temperature protector safety device - Electrical Supply: 220/AC - with product certification/approval by a certifying/hotified body - includes at least two (2) years warranty on service and parts - service of the color		
- over/maker temperature protector safety device - double door (tempered glass mere door) - with caster wheels (w/ lock) for easy mobility - Provert 220/VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - netuloss delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit - Circulating Coliform water bath - 33-40 L bath volume capacity - Temperature nange; ambient + 5°C to 100°C - Digital Temperature setting/ adjustment - Accuracy of a 0.1°C - Resolution of 0.1°C - Digital Temperature setting/ adjustment - Accuracy of a 0.1°C - Resolution of 0.1°C - Digital Inseption - With built- in engic, ambient- ye yestem - With built- in early to bold immension thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 14 14 I unit ABC: 290,000 00 pH/ Conductivity Meter - With pH Electrode. Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for my, saturation, salimity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salimity and its probe - Prover; 220-240VAC - Digital, Colored Display - Benchicop - Ambiacterial keyboard - Ambiacterial keyboa		- stainless steel shelves
- double door (tempered jakss imer door) - with caster wheels (w) look, for easy mobility - Power 220 VAC - with product certification/approval by a certifying/notified body - includes a least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 13 1 unit ABC 250,800.00 Carring and the comment of		
- with caster wheels (w) fock) for easy mobility - Provert 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 13 13 1 unit ABC: 250,000.00 Coliform bath - Crievaluting Coliform water bath - 35-40 L bath volume capacity - Temperature range: ambient + 5°C to 100°C - Digital Temperature anget ambient + 5°C to 100°C - Digital Temperature anget ambient + 5°C to 100°C - Digital Temperature and the esting adjustment - Resolution of 0.1°C - Digital Display - Stainless steel chamber - With built - in easy-to-drain/empty system - With built - in easy-to-drain/empty system - With built - in easy-to-drain/empty system - With product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit - ABC: 290,000.09 - A		
- Power 220VAC - with product extilication/approval by a certifying/notified body - includes a least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed ABC: 250,000.00 Colliform bath - Value of the Colliform water of the Coll		
- with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 13 1 unit ABC: 250,000.00 Coliform bath - Criculating Coliform water bath - 33-40.1 Lath volume capacity - Temperature range; ambient + 5°C to 100 °C - Digital Temperature setting adjustment - Accuracy of ± 0.1 °C - Possibility of 0.1 °C - With built - in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Flectrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning		
certifying/hotified body includes a least two (2) years warranty on service and parts includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 250,000.00 Culform bath Circulating Coliform water bath 35-40 L bath volume capacity Temperature range: ambient + 5 °C to 100 °C Digital Temperature setting/adjustment Accuracy of a 0.1 °C Digital Display Stainless steel chamber With built -in easy-to-drain/empty system With built -in easy-to-drain/empty and parts -illectrical Supply: 220/AC -whi product certification/approval by a certifying/hotified in the system of the syste		
parts - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1		
- includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 13 14 18 18 18 18 18 18 18 18 18		- includes at least two (2) years warranty on service and
Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 250,000.00 Coliform bath Circulating Coliform water bath 35-40 L bath volume capacity Temperature mage: ambient + 5 °C to 100 °C Digital Temperature setting/ adjustment - Accuracy of 40.1 °C Digital Display Staintiess steel chamber With uniteracted slot to hold immersion thermometer ower temperature protector safety device Electrical Supply: 220 VAC with product certification/approval by a certifying/notified body includes at least two (2) years warranty on service and parts includes delivery, installation, calibration and commissioning includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 14 14 14 14 14 16 17 18 18 18 19 19 19 19 10 10 10 10 10 10		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 250,000 00 Coliform bath - Circelating Coliform water bath - 35-40 L bath volume capacity - Temperature range: ambient + 5°C to 100°C - Digital Temperature setting/ adjustment - Acceptable of the CC - Digital Display - Samiless steel chamber - With binit-in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Hectrical Supply: 220°VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000.00 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Soxyea, Total - Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - "range: 0.00 to 14.00 - "accuracy: 4:01 pH - "calibration points: Up to 5 With Auto Buffer - Recognition - "buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 - "slope display: Yes (with offset) - continued below DH/ Conductivity Meter - For Conductivity - "range: 0.00 Ms/cm to 200.0 ms/cm - "accuracy: 4:19 full scale +1 digit - "resolution: 0.01, 0.11, 18/Sem; 0.01/0.01 ms/cm - "calibration points: up to 4 pts (auto), up to 5 pts - (manual) - For Temperature - "range: 0.01 to 10.00 °C		
13 1 unit ABC: 250,000 00 Collform bath - Circulating Collform water bath - 35-40 L bath volume capacity - Temperature range: ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Sesolution of 0.1 °C - Digital Display - Samices steel chamber - With integrated slot to hold immersion thermometer - over temperature protector selfey device - Hectrical Supply: 220 VAC - with product extification/approval by a certifying/hotified body - includes at least two (2) years warranty on service and parts - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Soxyea, Total Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchlop - Antibacterial keyboard - For pH *range: 0.01 to 14.00 *accuracy: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contined below— pH/ Conductivity Meter - For Conductivity Meter - For Conductivity Meter - For Conductivity Meter *range: 0.00 Ms/cm to 200.0 ms/cm *accuracy: ±16 full scale + 1 digit *resolution: 0.010.11/18/Sem; 0.01/0.01 ms/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 10.00 °C		commissioning
13 1 unit ABC: 250,000 00 Collform bath - Circulating Collform water bath - 35-40 L bath volume capacity - Temperature range: ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Sesolution of 0.1 °C - Digital Display - Samices steel chamber - With integrated slot to hold immersion thermometer - over temperature protector selfey device - Hectrical Supply: 220 VAC - with product extification/approval by a certifying/hotified body - includes at least two (2) years warranty on service and parts - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Soxyea, Total Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchlop - Antibacterial keyboard - For pH *range: 0.01 to 14.00 *accuracy: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contined below— pH/ Conductivity Meter - For Conductivity Meter - For Conductivity Meter - For Conductivity Meter *range: 0.00 Ms/cm to 200.0 ms/cm *accuracy: ±16 full scale + 1 digit *resolution: 0.010.11/18/Sem; 0.01/0.01 ms/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 10.00 °C		Deliver within 90 calendar days upon receipt of Notice
ABC: 250,000.00 Coliform bath 1- Circulating Coliform water bath 2-35-40. Lath volume capacity 1- Temperature range: ambient + 5°C to 100°C - Digital Temperature setting/ adjustment - Accuracy of ±0.1°C - Digital Temperature setting/ adjustment - Accuracy of ±0.1°C - Digital Display - Stamless steel chamber - With built in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with produce certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes at least two (2) years warranty - includes at least one (1) year warranty - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 290,000.00 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral - Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total - Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *resolution: 0.01 pH - *relabration points: Up to 5 With Auto Buffer - Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 - *slope display: Yes (with offset) continued below pH/ Conductivity Meter - For Conductivity Meter - For Conductivity - *range: 0.00 Ms/cm to 20.00 ms/cm - *accuracy: ±19 full scale + 1 digit - *resolution: 0.010.11/18/Serm, 0.01/0.1 ms/cm - *calibration points: up to 4 pts (auto); up to 5 pts - (manual) - For Temperature - *range: 0.0 to 10.00.0°C		1 1
Coliform bath - Circulating Coliform water bath - 35-40 L both volume capacity - Temperature range; ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Accuracy of ± 0.1 °C - Resolution of 0.1 °C - Digital Display - Stainless steel chamber - With built - in easy-to-drain/empty system - With built - in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220 VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes activery, installation, calibration and commissioning - includes activery, installation, calibration and commissioning - includes activery, installation, calibration and commissioning - beliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salmity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salmity and its probe - Power: 220-240 VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH * "range: 0.00 to 14.00 * accuracy: ±0.01 pH * resolution: 0.01 pH * resolution: 0.01 pH * activation points: Up to 5 With Auto Buffer Recognition * buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 * slope display: "Se (with offset) - continued below — pH/ Conductivity Meter - For Conductivity * "range: 0.00 Ms/cm to 200.0 ms/cm * accuracy: ±1% full scale + 1 digit * "resolution: 0.01 pl.1 Mg/kerm, 0.01.01 ms/cm * calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature * "range: 0.0 to 10.00 °C	13	1 unit
- Circulating Coliform water bath - 33-40 L bath volume capacity - Temperature range; ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Accuracy of ± 0.1 °C - Digital Display - Stainless steel chamber - With built-in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for in V, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **resolution: 0.01 pH **ealibration points: Up to 5 With Auto Buffer Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 - *slope display: Yes (with offset) - continued below:— pH/ Conductivity Meter - For Conductivity - *range: 0.00 Ms/cm to 200.0 mS/cm - *acilbration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature - *range: 0.0 to 10.00 °C		ABC: 250,000.00
- 35-40 L bath volume capacity - Temperature range ambient + 5°C to 100°C - Digital Temperature setting/ adjustment - Accuracy of ± 0.1°C - Digital Display - Stainless steel chamber - With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and calibration and calibration of the delivery, installation, calibration below — - pHL Conductivity Meter - For Conductivity Meter - For Conductivity Meter - For Conductivity - "range: 0.00 Ms/cm to 200.0 ms/cm - "calibration points: up to 4 pts (auto); up to 5 pts (amanual) - For Temperature - "range: 0.00 to 10.00 °C		
- Temperature range: ambient + 5 °C to 100 °C - Digital Temperature setting/ adjustment - Accuracy of ± 0.1 °C - Pigital Display - Stainless steel chamber - With built-in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes at least two (2) years warranty on service and commissioning - includes at least one (1) year warranty - includes achievery, installation, calibration and commissioning - includes achievery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000,000 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Osygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 - *accuracy: ±0.01 pH - *resolution: 0.01 pH - *resolution: 0.01 pH - *calibration points: Up to 5 With Auto Buffer - Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 - *slope display: Yes (with offset)		
Digital Temperature setting/ adjustment - Accuracy of ± 0.1 °C - Resolution of 0.1 °C - Digital Display - Stainless steel chamber - With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220 VAC - with product certification/approval by a certifying/notified body - includes all least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed		
- Accuracy of ± 0.1 °C - Resolution of 0.1 °C - Digital Display - Stainless steel chamber - With built -in easy-to-drain/empty system - With built -in easy-to-drain/empty system - With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safely device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 14 14 15 16 17 18 18 18 19 19 10 10 10 10 10 10 10 10		
- Resolution of 0.1 °C - Digital Display - Stainless steel chamber - With built-in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220/VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000.00 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral - Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure. Dissolved Oxygen, Total - Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **resolution: 0.01 pH **calibration points: Up to 5 With Auto Buffer - Recognition **buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 **slope display: Yes (with offset)		
- Stainless steel chamber - With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit - ABC: 290,000.00 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral - Electrode Holder & VAC Adapter - To include other testing parameters for in V, saturation, salinity, partial pressure, Dissolved Oxygen, Total - Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **resolution: 0.01 pH **resolution: 0.01 pH **resolution: 0.01 pH **calibration points: Up to 5 With Auto Buffer - Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 **slope display: Yes (with offset) - Conductivity - *range: 0.00 Ms/cm to 200.0 ms/cm **accuracy: ±1 % full scale + 1 digit **resolution: 0.010.17 µS/cm; 0.01/0.1 ms/cm - calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature **range: 0.00 to 10.00 °C		
- With built -in easy-to-drain/empty system - With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220 VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 I unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved Solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **resolution: 0.01 pH **resolution: 0.01 pH - *calibration points: Up to 5 With Auto Buffer Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 **slope display: Yes (with offset)		
- With integrated slot to hold immersion thermometer - over temperature protector safety device - Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salmity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salmity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuraey: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)		
- over temperature protector safety device -Electrical Supply: 220VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000.00 - pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral - Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total - Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **resolution: 0.01 pH **calibration points: Up to 5 With Auto Buffer - Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 **slope display: Yes (with offset) - continued below— pH/ Conductivity Meter - For Conductivity **range: 0.00 Ms/cm to 200.0 mS/cm **accuracy: ±19 fall scale + 1 digit **resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm **calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature **range: 0.00 to 10.00.9*C		1 11
- Electrical Supply: 220 VAC - with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit - ABC: 290,000.00 - pH/ Conductivity Meter - 'With pH Electrode, Conductivity/ATC Probe, Integral - Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total - Dissolved solids and salinity and its probe - Power: 220-240/VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 * *accuracy: ±0.01 pH * *resolution: 0.01 pH * *calibration points: Up to 5 With Auto Buffer - Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 * *slope display: Yes (with offset) - continued below pH/ Conductivity Meter - For Conductivity * range: 0.00 Ms/cm to 200.0 mS/cm * *accuracy: ±196 full scale + 1 digit * resolution: 0.01/0.1/IpS/cm; 0.01/0.1 mS/cm * calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature * range: 0.00 to 10.00. *C		
- with product certification/approval by a certifying/notified body - includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1		
- includes at least two (2) years warranty on service and parts - includes delivery, installation, calibration and commissioning - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salimity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1 % full seale +1 digit *resolution: 0.01/0.1/1 µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
parts - includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 I unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *resolution: 0.01 pH *resolution: 0.01 pH *resolution points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 m/s/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.17 µ/s/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 10.0.0 °C		body
- includes delivery, installation, calibration and commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH * *range: 0.00 to 14.00 * *accuracy: ±0.01 pH * *range: 0.00 to 14.00 * *accuracy: ±0.01 pH * *calibration points: Up to 5 With Auto Buffer Recognition * *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 * *slope display: Yes (with offset)continued below pH/ Conductivity Meter - For Conductivity * *range: 0.00 Ms/cm to 200.0 mS/cm * *accuracy: ± 1% full scale + 1 digit * *resolution: 0.01/0.17 µS/cm; 0.01/0.1 mS/cm * *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature * *range: 0.00 to 10.00 °C		
commissioning - includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 I unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Ellectrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *resolution: 0.01 pH *ecognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.17µs/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.00 to 10.00 °C		1 2
- includes at least one (1) year warranty - includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - 'With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH **calibration points: Up to 5 With Auto Buffer Recognition **buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 **slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity **range: 0.00 Ms/cm to 200.0 mS/cm **accuracy: ±1% full scale + 1 digit **resolution: 0.01/0.1/µs/cm; 0.01/0.1 mS/cm **calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature **range: 0.0 to 100.0 °C		
- includes delivery, installation, calibration and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed 1 unit ABC: 290,000.00 pH/ Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) continued below:		
Deliver within 90 calendar days upon receipt of Notice to Proceed 14 1 unit ABC: 290,000.00 pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salimity and its probe - Power: 220-240 VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) continued below pH/ Conductivity Meter - For Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 ms/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *alibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 10.0.0 °C		
14 1 unit ABC: 290,000.00 pH/Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
14 1 unit ABC: 290,000.00 pH/Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
1 unit ABC: 290,000.00 pH/Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) continued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.010.1/1 µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.00 °C		
ABC: 290,000.00 pH/ Conductivity Meter '- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.11/µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.00 to 100.0 °C	14	
pH/ Conductivity Meter - With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 ms/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/µs/cm; 0.01/0.1 ms/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C	'	
- With pH Electrode, Conductivity/ATC Probe, Integral Electrode Holder & VAC Adapter - To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 **accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)continued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.00 to 100.0 °C		
- To include other testing parameters for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)continued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.00 to 100.0 °C		
Dissolved solids and salimity and its probe - Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH - *range: 0.00 to 14.00 - *accuracy: ±0.01 pH - *resolution: 0.01 pH - *calibration points: Up to 5 With Auto Buffer Recognition - *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 - *slope display: Yes (with offset)continued below PH/ Conductivity Meter - For Conductivity - *range: 0.00 Ms/cm to 200.0 mS/cm - *accuracy: ± 1% full scale + 1 digit - *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm - *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature - *range: 0.0 to 100.0 °C		
- Power: 220-240VAC - Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)continued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
- Digital, Colored Display - Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contiued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
- Benchtop - Antibacterial keyboard - For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) continued below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
-For pH *range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		- Benchtop
*range: 0.00 to 14.00 *accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
*accuracy: ±0.01 pH *resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ±1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
*resolution: 0.01 pH *calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset) contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
*calibration points: Up to 5 With Auto Buffer Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
Recognition *buffer options: USA: 1.68, 4.01, 7.00, 10.01, 12.45 *slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		7
*slope display: Yes (with offset)contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		Recognition
contined below pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
pH/ Conductivity Meter - For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
- For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		connued below
- For Conductivity *range: 0.00 Ms/cm to 200.0 mS/cm *accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		pH/ Conductivity Meter
*accuracy: ± 1% full scale + 1 digit *resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
*resolution: 0.01/0.1/1µS/cm; 0.01/0.1 mS/cm *calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
*calibration points: up to 4 pts (auto); up to 5 pts (manual) - For Temperature *range: 0.0 to 100.0 °C		
(manual) - For Temperature *range: 0.0 to 100.0 °C		1 11
- For Temperature *range: 0.0 to 100.0 °C		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*range: 0.0 to 100.0 °C		
*accuracy: ± 0.1°C		
11		*accuracy: ± 0.1°C

	*resolution:0.1 °C *compensation: Automatic (0.0 to 100.0°C) *normalization: 15.0 to 30.0 °C - Accessories/Consumable *3 bottles of pH Buffer/ one bottle (at least 1 liter) for pH 4, pH 7 and pH 10, June 2024 or beyond Expiry date *1 bottle (Conductivity standard 1412µS, June 2024 or beyond Expiry date *Additional One (1) pH Electrode and One (1) Conductivity/ATC probe *testing solutions for mV, saturation, salinity, partial pressure, Dissolved Oxygen, Total Dissolved solids and salinity includes at least one (1) year warranty includes delivery, installation, and commissioning Deliver within 90 calendar days upon receipt of Notice to Proceed	
15	1 unit ABC: 200,000.00 Analytical Balance Capacity: at least 220 g Readability: 0.1 mg or better Minimum Weight: at most 20 mg Built-in Calibration Weight Must be Compliant with USP Chapter 41 Display: Wear Resistant LED Touchscreen Including: Installation, Commissioning; Training, Warranty and Preventive Maintenance Deliver within 90 calendar days upon receipt of Notice to Proceed	
16	1 unit ABC: 125,000.00 2700G-BG3.5M Reference Pressure Gauge Reference Pressure Gauge, -12 to 500 psi (Resolution: 0.01 psi) Deliver within 90 calendar days upon receipt of Notice to Proceed	
17	1 unit ABC: 125,000.00 2700G-BG200K/C Reference Pressure Gauge with Accreditation Reference Pressure Gauge, -15 to 30 psi (Resolution: 0.001 psi) Deliver within 90 calendar days upon receipt of Notice to Proceed	
18	I unit ABC: 2,100,000.00 Ultra-Cool Field Metrology Well/Multi-Channel Data Logger Capacity: -90 °C to ambient Temperature Resolution: 0.01 °C Compatible with Thermocouple Type K Automatic internal reference junction compensation Sample Rate: Capable of 10 channels per second At least 9 channels Display resolution: 6 1/2 digits Can be interfaced with a USB device Must include accessories: o Laptop Computer o Multifunction process calibrator o Carrying Case o Thermocouple Spot Welder o At least one (1) roll of Thermocouple Type K (1 roll = 50 meters) Including: Installation, Commissioning; Training, Warranty and Preventive Maintenance	

	Deliver within 90 calendar days upon receipt of Notice to
	Proceed
19	1 unit
	ABC : 800,000.00
	Field Metrology Well/Multi-Channel Data Logger
	Capacity: -90 °C to ambient to 660 °C Temperature Resolution: 0.01 °C
	At least 9 channels
	All channels isolated for temperature measurements. Preferably: capable of measuring humidity aside from
	temperature
	Compatible with Thermocouple Type K
	Automatic internal reference junction compensation Sample Rate: up to 10 ms
	Must include accessories:
	o Laptop Computer o Carrying Case
	Including: Installation, Commissioning, Training,
	Warranty and Preventive Maintenance
	Deliver within 90 calendar days upon receipt of Notice to
20	Proceed
20	1 unit
	ABC: 100,000.00
	10 L cap. Test Measure Reference Standard
	Type 304 Stainless Steel Scale Resolution: 5 mm
	Tolerance: 0.02% Scale Accuracy
	Equipped with a (liquid-level) gauge tube mounted on the side of the neck
	Built to OIML R-120
	Grip: Rubber on test measure handle Volume Indication: Aluminum graduated scale
	Former Indication: / Humilian gladuled scale
	Deliver within 90 calendar days upon receipt of Notice to
21	Proceed 1 unit
	ABC: 3,800,000.00
	Mass Comparator
	Type 304 Stainless Steel Scale Resolution: 5 mm
	Tolerance: 0.02% Scale Accuracy
	Equipped with a (liquid-level) gauge tube mounted on the side of the neck
	Built to OIML R-120
	Grip: Rubber on test measure handle Volume Indication: Aluminum graduated scale
	Includes delivery, installation, calibration and
	commissioning
22	1 unit
	ABC: 160,000.00 Test Weights: Class F1 accuracy knob style 1 kg, 2 kg, 5
	kg,10 kg and 20 kg
	Nominal Value/s: 1 kg, 2 kg, 5 kg, 10 kg Material: Stainless Steel
	Shape: Cylindrical with handling knob
	Inclusion: With Wooden Box
	Deliver within 90 calendar days upon receipt of Notice to
	Proceed

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents Legal Documents (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document, and Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas; (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR). Technical Documents Statement of the prospective bidder of all its ongoing government and (e) private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and Original copy of Bid Security. If in the form of a Surety Bond, submit also a (g)certification issued by the Insurance Commission; Original copy of Notarized Bid Securing Declaration; and Conformity with the Technical Specifications, which may include (h) production/delivery schedule, manpower requirements, and/or aftersales/parts, if applicable; and \Box (i) Original duly signed Omnibus Sworn Statement (OSS); and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. Financial Documents (j) The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; and

	(k)	The prospective bidder's computation of Net Financial Contracting Capacity (NFCC); or
		A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation. Class "B" Documents
	(l)	If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence; or
		duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.
II.	FINANC	IAL COMPONENT ENVELOPE
	(m)	Original of duly signed and accomplished Financial Bid Form; and
	(n)	Original of duly signed and accomplished Price Schedule(s).
	Other do	cumentary requirements under RA No. 9184 (as applicable)
	(o)	[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in
	(p)	government procurement activities for the same item or product. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

Republic of the Philippines

Covernment Procurement Policy Board