PHILIPPINE BIDDING DOCUMENTS

Procurement of GOODS

Government of the Republic of the Philippines

FOR Project 2024-4E: Supply and Delivery of Various Laboratory Equipment for the University (Fourth Advertisement)

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 ForeignAssisted Projects, these will be covered by a separate issuance of the Government Pcurement Policy Board.

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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

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria (*e.g.*, the application of a margin of preference in bid evaluation).

The IB should be incorporated in the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Republic of the Philippines NUEVA VIZCAYA STATE UNIVERSITY

Bayombong, Nueva Vizcaya

INVITATION TO BID

FOR Project 2024-4E: Supply and Delivery of Various Laboratory Equipment for the University (Fourth Advertisement)

- 1. The *Nueva Vizcaya State University*, through General Fund (*Fund 101*) *FY 2024* intends to apply the sum of *Php6*,950,000.00 being the ABC to payments under the contract for *Project 2024-4E: Supply and Delivery of Various Laboratory Equipment for the University (Fourth Advertisement*). Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The *NVSU* now invites bids for the above Procurement Project. Delivery of the Goods/Equipment is required by *sixty* (60) calendar days. Bidders should have completed, within *two* (02) 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 nondiscretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

- 4. Prospective Bidders may obtain further information from NVSU-BAC and inspect the Bidding Documents at the address given below during Mondays-Fridays from 8:00AM to 5:00PM.
- 5. A complete set of Bidding Documents may be acquired by interested Bidders starting on *August 8*, 2024 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 Php10,000.00.* The Procuring Entity shall allow the bidder to present its proof of payment for the fees *through electronic means*.

NVSU LANDBANK ACCOUNT No.: 0432-1028-82

6. The NVSU will hold a Pre-Bid Conference¹ on August 16, 2024, 9:00 AM at the Board Room, 3F New Administration Building, NVSU Bayombong Campus through video conferencing/webcasting via **ZOOM** (Meeting ID: 525 793 2135 Passcode: nvsu@2024) which shall be open to prospective bidders.

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.

- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before *August 29, 2024, at 8:59 am or courier submission at the same address on or before August 26, 2024, at 5:00 pm.* 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.
- 9. Bid opening shall be on *August 29, 2024, at 9:00 am* at the given address and via **ZOOM** (**Meeting ID: 525 793 2135 Passcode: nvsu@2024**) Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The *Nueva Vizcaya State University* 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.
- 11. For further information, please refer to:

MARITESS MORTERA
ARSHIELA MANUEL
SHERYL CAROLINE FONTANILLA
MARY JANE TIME
MARY JANE DULINAYAN
DENNYLAINE IBASCO
VIVIAN ALMENDRA
NORBERT JOHN ESPIRITU

3rd floor UBAC Office, New Administration Building NVSU Bayombong Campus, Bayombong, Nueva Vizcaya Tel. No. 078-392-1605/078-321-2112

Email Address: bac.equipment@nvsu.edu.ph

12. You may visit the website:

UBAC Secretariat

For downloading of Bidding Documents: www.nvsu.edu.ph August 8, 2024

CARLO F. VADIL
UBAC Chairperson, Equipment

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, Nueva Vizcaya State University, wishes to receive Bids for Project 2024-4E: Supply and Delivery of Various Laboratory Equipment for the University (Fourth Advertisement). [insert, if applicable:] under a Framework Agreement], with identification number [indicate number].

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project referred to herein as 2024-4E: Supply and Delivery of Various Laboratory Equipment for the University (Fourth Advertisement) is composed of sixty-two (35) item/s, 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 for *Fund 101*, *FY 2024[indicate funding year]* in the amount of *Six Million Nine Hundred Fifty Thousand pesos (Php6,950,000.00) [indicate amount].*
- 2.2. The source of funding is: General Fund (GF)

[If an early procurement activity, select one and delete others:]

- a. NGA, the National Expenditure Program.
- b. GOCC and GFIs, the proposed Corporate Operating Budget.
- c. LGUs, the proposed Local Expenditure Program.

[If not an early procurement activity, select one and delete others:]

- a. NGA, the General Appropriations Act or Special Appropriations.
- b. GOCC and GFIs, the Corporate Operating Budget.
- c. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

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. [Select one, delete other/s]
 - a. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
 - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
 - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - iii. When the Goods sought to be procured are not available from local suppliers; or
 - iv. When there is a need to prevent situations that defeat competition or restrain trade.
 - b. 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:

[Select one, delete the other/s]

- 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.
- b. For the procurement of Expendable Supplies: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least twenty-five percent (25%) of the ABC.
- c. For procurement where the Procuring Entity has determined, after the conduct of market research, that imposition of either (a) or (b) will likely result to failure of bidding or monopoly that will defeat the purpose of public bidding: the Bidder should comply with the following requirements: [Select either failure or monopoly of bidding based on market research conducted]
 - i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least fifty percent (50%) in the case of non-expendable supplies and services or twenty-five percent (25%) in the case of expendable supplies] of the ABC for this Project; and
 - ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
- 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:

[Select one, delete other/s]

- a. Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed twenty percent (20%) of the contracted Goods.
- b. Subcontracting is not allowed.
- 7.2. [If Procuring Entity has determined that subcontracting is allowed during the bidding, state:] The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in ITB Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.3. [If subcontracting is allowed during the contract implementation stage, state:] The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in ITB Clause 5 to the implementing or end-user unit.
- 7.4. 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 { [insert if applicable] 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 [state relevant period as provided in paragraph 2 of the **IB**] 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.
- 11.5. [Include if Framework Agreement will be used:] Financial proposals for single or multi-year Framework Agreement shall be submitted before the deadline of submission of bids as prescribed in the **IB**. For multi-year Framework Agreement, evaluation of the financial proposal during this stage is for purposes of determining eligibility and whether or not such financial proposal is within the ABC.

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 e.
- 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 **Section VII (Technical Specifications).**
- 12.2. [Include if Framework Agreement will be used:] For Framework Agreement, the following should also apply in addition to Clause 12.1:
 - a. For a single year Framework Agreement, the prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation or escalation on any account. Price schedules required under Clause 12.1 shall be submitted with the bidding documents.
 - b. For a multi-year Framework Agreement, the prices quoted by the Bidder during submission of eligibility documents shall be the ceiling and the price quoted during mini-competition must not exceed the initial price offer. The price quoted during call for mini-competition shall be fixed during the Bidder's performance of that Call-off and not subject to variation or escalation on any account. Price schedules required under Clause 12.1 shall be submitted with the bidding documents.

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:

[Select one, delete the other/s]

- a. Philippine Pesos.
- b. [indicate currency if procurement involves a foreign-denominated bid as allowed by the Procuring Entity, which shall be tradeable or acceptable by the BSP].

14. Bid 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 [indicate date]. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.
- 14.3. [Include if Framework Agreement will be used:] In the case of Framework Agreement, other than the grounds for forfeiture under the 2016 revised IRR, the bid security may also be forfeited if the successful bidder fails to sign the Framework Agreement, or fails to furnish the performance security or performance securing declaration. Without prejudice on its forfeiture, bid securities shall be returned only after the posting of performance security or performance securing declaration, as the case may be, by the winning Bidder or compliant Bidders and the signing of the Framework Agreement.

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.

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.

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**.
- 16.2. [Include if Framework Agreement will be used:] For multi-year Framework Agreement, the submission of bids shall be for the initial evaluation of their technical and financial eligibility. Thereafter, those declared eligible during the said initial eligibility evaluation and entered into a Framework Agreement with the Procuring Entity shall submit anew their best financial offer at the address and on or before the date and time indicated in the Call for each minicompetition.

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.
- 18.2. [Include if Framework Agreement will be used:] For multi-year Framework Agreement, determination of margin of preference shall be conducted every call for Mini-Competition.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring 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.

[Include the following options if Framework Agreement will be used:]

- a. In the case of single-year Framework Agreement, the Lowest Calculated Bid shall be determined outright after the detailed evaluation;
- b. For multi-year Framework Agreement, the determination of the eligibility and the compliance of bidders with the technical and financial aspects of the projects shall be initially made by the BAC, in accordance with Item 7.4.2 of the Guidelines on the Use of Framework Agreement.
- 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 15 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.

Option 2 – One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.

Option 3 - One Project having several items, which shall be awarded as separate contracts per item.

[Delete Options 2 and 3 if Framework Agreement will be used.]

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

20.1. [Include if Framework Agreement will be used:] For multi-year Framework Agreement, all bidders initially determined to be eligible and financially

compliant shall be subject to initial post-qualification. The BAC shall then recommend the execution of a Framework Agreement among all eligible, technically and financially compliant bidders and the Procuring Entity and shall be issued by HoPE a Notice to Execute Framework Agreement. The determination of the Lowest Calculated Bid (LCB) shall not be performed by the BAC until a Mini-Competition is conducted among the bidders who executed a Framework Agreement. When a Call for Mini-Competition is made, the BAC shall allow the bidders to submit their best financial proposals on such pre-scheduled date, time and place to determine the bidder with the LCB.

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, {[Include if Framework Agreement will be used:] or in the case of multi-year Framework Agreement, that it is one of the eligible bidders who have submitted bids that are found to be technically and financially compliant,}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. {[Include if Framework Agreement will be used:] For every mini-competition in Framework Agreement, the LCB shall likewise submit the required documents for final Post Qualification.}

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**.

[Include the following clauses if Framework Agreement will be used:]

- 21.2. At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Framework Agreement Form to the Bidder, which contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.
- 21.3. Within ten (10) calendar days from receipt of the Notice to Execute Framework Agreement with the Procuring Entity, the successful Bidder or its duly authorized representative shall formally enter into a Framework Agreement with the procuring entity for an amount of One Peso to be paid to the procuring entity as a consideration for the option granted by the procuring entity to procure the items in the Framework Agreement List when the need arises.
- 21.4. The Procuring Entity shall enter into a Framework Agreement with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.
- 21.5. The following documents shall form part of the Framework Agreement:

- a. Framework Agreement Form;
- b. Bidding Documents;
- c. Call-offs;
- d. Winning bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted (*e.g.*, bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
- e. Performance Security or Performance Securing Declaration, as the case may be;
- f. Notice to Execute Framework Agreement; and
- g. Other contract documents that may be required by existing laws and/or specified in the **BDS**.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

| ITB Clau | | | | | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------|--|
| se | | | | | | |
| 5.3 | For this pu | rpose, contracts similar to the Pro- | oject shall | be: | | |
| | a. [pro | ovide the definition or descriptio | n of simile | ar contracts]. | | |
| | | npleted within two (2) years prior pids. | r to the de | adline for the subm | nission and receipt | |
| 7.1 | | e portions of Goods to be subcomponent of the Project as detern | | | | |
| | Not applica | able | | | | |
| 12 | The price of | of the Goods shall be quoted in P | hilippine _I | peso. | | |
| 14.1 | The bid sec forms and | curity shall be in the form of a Bi amounts: | d Securing | g Declaration, or ar | ny of the following | |
| | a. The amount of not less than <i>One Hundred Thirty-Nine Thousand Pesos only</i> (<i>Php139,000.00</i>) [<i>Indicate the amount equivalent to two percent (2%) of ABC</i>], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or | | | | | |
| | pes | e amount of not less than <i>Three to sonly (Php347,500.00) [Indica ABC]</i> if bid security is in Surety less than <i>Three to sonly (Php347,500.00) [Indica ABC]</i> if bid security is in Surety less than <i>Three to son son the security is in Surety less than <i>Three to som the security is in Surety less than Three to som the security is in Surety less than <i>Three to so son the security is in Surety less than Three to som the security is in Surety less than the security less than the security is in Surety less than the security less than the secur</i></i></i> | ite the am | • | | |
| 19.3 | | e Project will be awarded by lot, and the quantity for every ident | _ | | | |
| | [In case the | e project will be awarded by item, | list each | item indicating its q | quantity and ABC.] | |
| | Item No. | Particulars | Qty | Unit of Measurement | Unit Cost | |
| | 1. | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general- purpose storage to contain | 1 | Unit | 210,000.00 | |

| | putrid organic odors as well | | | | |
|----|-----------------------------------------------------------------------------------|---|------|------------|------|
| | as fumes | | | | |
| | With HEPA filter, | | | | |
| | eliminates exposure to | | | | |
| | biological particulates | | | | |
| | With product quality | | | | |
| | certification or its equivalent | | | | |
| | With manufacturer's | | | | |
| | warranty CALIBRATION | | | | |
| | EQUIPMENT, Inverted | | | | |
| | Microscope | | | | |
| | Infinite Optical System, | | | | |
| | Extra wide field eyepiece | | | | |
| | EW10X/22 Viewing Head: Trinocular head inclined at | | | | |
| | 30degrees, interpupillary distance 48-75mm | | | | |
| | Objective LWD infinite plan objective 4X/0.1,WD | | | | |
| | 17.3mm ; 40X/0.6,WD 2.1mm | | | | |
| 2. | Infinite plan phase objective PH10X/0.25,WD 10mm, | 1 | Unit | 80,000.00 | 80,0 |
| | PH20X/0.4,WD 5.1mm | | | | |
| | Quintuple nosepiece | | | | |
| | LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X- 20X,40X phase annulus | | | | |
| | plate(fixed) | | | | |
| | Illumination: Halogen lamp 6V/30W | | | | |
| | With product quality | | | | |
| | certification or its equivalent | | | | |
| | With manufacturer's | | | | |
| | warranty CALIBRATION | | | | |
| | EQUIPMENT, NIR | | | | |
| | an a student stan on altruman | 1 | ** * | 200,000,00 | 200 |
| 3. | portable spectrometer | 1 | Unit | 200,000.00 | 200, |
| | Wavelength Range: 350-950 | | | | |
| | ", a voicing air rainge. 330-730 | | | | |

| Stray light: less than or equal to 0.3% Spectral bandwidth | | |
|-------------------------------------------------------------|----|------|
| | | |
| Spectral bandwidth | | |
| (FWHM): 2nm CCT range: | | |
| 1,000K~100,000K | | |
| Frequency range: 25-1KHz | | |
| Chromaticity coordinate | | |
| accuracy: margin of error | | |
| plus minus 0.0025 | | |
| Application: Medical Beauty | | |
| Light source | | |
| Frequency sampling rate: 1- | | |
| 10KHz With product quality | | |
| certification or its equivalent | | |
| With manufacturer's | | |
| warranty CALIBRATION | | |
| EQUIPMENT, Portable | | |
| Biogas Analyzer | | |
| Gases detected CH4, CO2, H2S, O2 Measuring range | | |
| CH4: (0-100)%vol CO2: (0- | | |
| 100)%vol | | |
| H2S: (0~1000) ppm O2: (0~30.0)% vol | | |
| Resolution ratio CH4: 1%vol, CO2: 1%vol, | | |
| H2S: 1ppm, | | |
| 4. O2: 0.1% vol 1 Unit 100,000 | 00 | 100, |
| Sensor Infrared sensor and electrochemical sensor | | |
| Sensor lifetime greater than | | |
| or equal to 5years (CH4,CO2) greater than or | | |
| equal to 2years (H2S, O2) | | |
| Response time CH4: less | | |
| than or equal to 45S (T90) | | |
| CO2: less than or equal to 45s (T90) | | |
| H2S:less than or equal to45s | | |
| (T90) | | |

| | 00.1 1 1 17 | | T | | 1 | |
|----|---------------------------------|---|------|------------|---|------|
| | O2: less than or equal to 45s | | | | | |
| | (T90) | | | | | |
| | Alarms Audiblebuzzer | | | | | |
| | with greater than or equal to | | | | | |
| | 80dB audible Visible- | | | | | |
| | flashing red LED, greater | | | | | |
| | than or equal to 20m visible | | | | | |
| | Alarm point Fully adjustable | | | | | |
| | Data logging Continuous | | | | | |
| | Data logging (1900 events at | | | | | |
| | configurable 0.1-10 minutes | | | | | |
| | intervals) | | | | | |
| | Continuous working time | | | | | |
| | greater than or equal to | | | | | |
| | 13hours Display Liquid | | | | | |
| | Crystal Display (LCD) | | | | | |
| | Battery model PL123450, | | | | | |
| | 3.7V/1500mA Charging | | | | | |
| | time 4-5 hours | | | | | |
| | Dust and water resistance | | | | | |
| | IP65 With product quality | | | | | |
| | certification or its equivalent | | | | | |
| | With manufacturer's | | | | | |
| | warranty CALIBRATION | | | | + | |
| | EQUIPMENT, Water | | | | | |
| | Activity Meters | | | | | |
| | Measurement range: 0.1 to: | | | | | |
| | 0.98 Aw (5- 45 degree | | | | | |
| | Celsius) | | | | | |
| 5. | Measuring principle: | 1 | Unit | 190,000.00 | | 190, |
| | Electrolytic (surface IR and | | | | | |
| | NTC) | | | | | |
| | Measurement accuracy: AW | | | | | |
| | margin of error plus and | | | | | |
| | minus 0.01 (margin of error | | | | | |
| | minus over (margin or orior | | | | | |

| | | | | | |
|------|---------------------------------|---|------|------------|------|
| | plus and minus 15 degrees | | | | |
| | celsius) precision: margin of | | | | |
| | error plus and minus | | | | |
| | 0.003aw within the | | | | |
| | adjustment range (margin of | | | | |
| | error plus and minus 0.1 | | | | |
| | degree celsius) | | | | |
| | Resolution: 0.001aw (0.1 | | | | |
| | degree celsius) | | | | |
| | Accuracy: margin of error | | | | |
| | plus and minus 0.010aw | | | | |
| | within calibration range | | | | |
| | (margin of error plus and | | | | |
| | minus 0.15 degree celsius) | | | | |
| | With product quality | | | | |
| | certification or its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY | | | | |
| | EQUIPMENT, Analyzer | | | | |
| | Glass-less infrared heating | | | | |
| | increases efficiency for | | | | |
| | faster results | | | | |
| | Flexible performance: | | | | |
| | Provides accurate results at | | | | |
| | either 0.1% or 10 mg | | | | |
| | readability, and is ideal for | | | | |
| 6. | textiles, wastewater, | 1 | Unit | 220,000.00 | 220, |
| | ceramics, food and other | | | · | Í |
| | applications that require IR | | | | |
| | heating elements and | | | | |
| | measurements to 0.1% | | | | |
| | Simple to operate: Set up | | | | |
| | and operation is extremely | | | | |
| | easy, just press and hold the | | | | |
| | temperature or time buttons | | | | |
| | to set drying parameters, add | | | | |
| | | | | | |

| | | Γ | T | 1 | |
|----|------------------------------------------------------|---|------|------------|-------|
| | your sample and begin the | | | | |
| | test process. This makes the | | | | |
| | analyzer ideal for routine | | | | |
| | tasks performed by operators | | | | |
| | of all skill levels | | | | |
| | Compact, easy-to-clean | | | | |
| | design: The compact | | | | |
| | footprint 6.0-7.0 x 5- 6 x 11- | | | | |
| | 12" (15-18 x 12-15x 25 cm- | | | | |
| | 30 cm) of the analyzer is | | | | |
| | designed to take up less | | | | |
| | space and the easy-to-clean | | | | |
| | heating chamber is ideal for | | | | |
| | frequent use and inexpensive | | | | |
| | maintenance | | | | |
| | User-friendly touch-button design for easy operation | | | | |
| | Compact design suits any workspace | | | | |
| | Three shut off criteria | | | | |
| | (manual, timed or auto) | | | | |
| | One standard heating profile | | | | |
| | 40 to 200 degree celsius | | | | |
| | heating range (4-8 degree celsius increments) | | | | |
| | With product quality | | | | |
| | certification or its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY | | | | |
| | EQUIPMENT, Antibiotic | | | | |
| | Disc Dispenser and Zone Reader | | | | |
| | Diameter Range: 0 to 80.0 | | | | |
| 7. | mm | 1 | Unit | 70,000.00 | 70, |
| ,. | Resolution: 0.1 mm | • | | , 0,000.00 | , , , |
| | Illumination: Lamp/LED 12 V/ DC | | | | |
| | Display: 4 digit seven segment LED display | | | | |
| | segment LED display | | | | |

| | Power Supply: 230V +10% | | | | | |
|----|------------------------------------------------------|---|------|------------|----------|------|
| | AC, 60Hz | | | | | |
| | With product quality | | | | | |
| | certification or its equivalent | | | | | |
| | With manufacturer's | | | | | |
| | warranty LABORATORY | | | | \vdash | |
| | EQUIPMENT, Archimedes | | | | | |
| | Principle | | | | | |
| | Apparatus Set SDFDEWER | | | | | |
| | This set includes | | | | | |
| | 1 Density set | | | | | |
| | 1 Overflow can 1 large rod | | | | | |
| | base | | | | | |
| | 1 stainless Steel rod, 45 cm | | | | | |
| | 1 Braided physics string 1 | | | 70,000.00 | | |
| 8. | Ohaus Triple-beam balance | 1 | Set | | | 70,0 |
| | (with Tare) 1 stainless | | | , | | ĺ |
| | caliper | | | | | |
| | 1 1000 ml beaker | | | | | |
| | 1 100 ml beaker | | | | | |
| | 1 50 ml graduated cylinder | | | | | |
| | 1 Archimedes Principle | | | | | |
| | Experiment | | | | | |
| | With product quality certification or its equivalent | | | | | |
| | With manufacturer's | | | | | |
| | warranty | | | | | |
| | LABORATORY | | | | | |
| | EQUIPMENT, Arduino Artificial | | | | | |
| | Intelligence Suite (Dobot | | | | | |
| | Basic AI Kit) DfRduino | | | | | |
| | , | | | | | |
| | Mega2560 V3 | | | | | |
| 9. | Specs: | 1 | Unit | 425,000.00 | | 425, |
| | Microcontroller: ATmega2560 | | | | | |
| | Operating Voltage 5V | | | | | |
| | Input Voltage | | | | | |
| | (recommended): 7V-12V | | | | | |
| | Input Voltage (range): 6V- | | | | | |
| | 20V | | | | | |

| | Digital I/O Pins: 54 (of | | |
|--|----------------------------------------------|------|--|
| | which 15 provide PWM | | |
| | output) | | |
| | Analog Input Pins: 16 I/O | | |
| | DC Current per I/O Pin: 50 mA | | |
| | DC Current for 3.3V Pin: 50 | | |
| | mA | | |
| | Flash Memory: 256 KB of | | |
| | which 4 KB used by the | | |
| | bootloader | | |
| | SRAM: 8 KB | | |
| | EEPROM: 4 KB Clock | | |
| | Speed: 16MHz | | |
| | Pixy CMUcam5 Specs: | | |
| | Processor: NXP LPC330, | | |
| | 204MHz, dual-core | | |
| | Image Sensor: Omni vision | | |
| | OV9715, 1/4", 1280x800 | | |
| | Image Sensor: 75 degrees | | |
| | horizontal, 47 degrees | | |
| | vertical | | |
| | Lens Type: Standard M12 | | |
| | (several different types | | |
| | available) | | |
| | Power Consumption: 140 | | |
| | mA | | |
| | Power Input: USB Input | | |
| | (5V) or unregulated input | | |
| | (6V to 10V) | | |
| | RAM: 264K bytes | | |
| | Flash: 1M bytes | | |
| | Available Data Outputs: | | |
| | UART serial, SPI, I2C, | | |
| | USB, | | |
| | Digital, Analog Size: 2.1" × 1.75" × 1.4" | | |
| | Keycap Color: Red, Green, | | |
| | Blue Supply Voltage: 3.3V - | | |

| | | | | | ١ | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|---|------|
| | 5V | | | | | |
| | Data Type Digital Size: 22mm × 30mm | | | | | |
| | LED Module Specs: Color: Red, Green, Blue Brightness: 2500mcd to 3300mcd Highlight Output Voltage: 3.3V - 5V Wavelength: 520nm - 530nm Angle: 80° - 110° Size 30mm × 20mm Weight: 5g With product quality certification or its equivalent With manufacturer's warranty | | | | | |
| 10 | Max Torque: 400 Nm With product quality certification or its equivalent With manufacturer's | 1 | Unit | 250,000.00 | | 250, |
| 11 | warranty LABORATORY EQUIPMENT, Conservation of Momentum Apparatus (complete set) This set includes: 2 cart mass 2 small cart 2 Dynamics Track end stop (Pair) 2 Dynamics Track feet | 1 | Set | 70,000.00 | | 70,0 |

| | ΤΓ | | 1 Aluminum Description | | | | | | | | | | | | | | | | | |
|--|---------|----|-----------------------------------------------------------|---|------|------------|------|---|---|---|---|---|---|---|---|---|---|------|-----------|------|
| | $\ \ $ | | 1 Aluminum Dynamics Track | | | | | | | | | | | | | | | | | |
| | | | 1 small cart rod stand | | | | | | | | | | | | | | | | | |
| | | | adapter | | | | | | | | | | | | | | | | | |
| | | | With product quality | | | | | | | | | | | | | | | | | |
| | | | certification or its equivalent | | | | | | | | | | | | | | | | | |
| | | | With manufacturer's | | | | | | | | | | | | | | | | | |
| | | | warranty | | | | | | | | | | | | | | | | | |
| | | | LABORATORY EQUIPMENT, Conventional | | | | | | | | | | | | | | | | | |
| | | | Milling Machine | | | | | | | | | | | | | | | | | |
| | | | Drilling Capacity: 45mm | | | | | | | | | | | | | | | | | |
| | | | diameter | | | | | | | | | | | | | | | | | |
| | | | Face milling Capacity: 80mm diameter | | | | | | | | | | | | | | | | | |
| | | | End milling Capacity: 32mm diameter | | | | | | | | | | | | | | | | | |
| | | | Max. Dist. from Spindle nose to table 450mm | | | | | | | | | | | | | | | | | |
| | | | Min. dist. From spindle axis to column 260mm | | | | | | | | | | | | | | | | | |
| | | | Spindle travel: 130 mm | | | | | | | | | | | | | | | | | |
| | | 12 | Spindle speed @ 60Hz 95- | 1 | Unit | 220,000.00 | 220, | | | | | | | | | | | | | |
| | | | Table size: 800x240mm | | | | | | | | | | | | | | | | | |
| | | | Motor power: 1.5 KW (2HP) | | | | | | | | | | | | | | | | | |
| | | | Std. Accessories: | | | | | | | | | | | | | | | | | |
| | | | 1 set of collet, 4 milling | | | | | | | | | | | | | | | | | |
| | | | vise, clamping kit, 10 pc end | | | | | | | | | | | | | | | | | |
| | | | mill cutter | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | Features: Gear Driven, Head Swivels 90° vertically, micro | | | | | | | | | | | | | | | | | |
| | | | feed precision. With DRO | | | | | | | | | | | | | | | | | |
| | | | (Digital Read Out) | | | | | | | | | | | | | | | | | |
| | | | With product quality | | | | | | | | | | | | | | | | | |
| | | | certification or its equivalent | | | | | | | | | | | | | | | | | |
| | | | With manufacturer's | | | | | | | | | | | | | | | | | |
| | ╽┟ | | warranty LABORATORY | | | | | | | | | | | | | | | | | |
| | | | EQUIPMENT, Diesel | 1 | | | | | | | | | | | | | | | | |
| | | 13 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Unit | 70,000.00 | 70,0 |
| | $\ \ $ | | _ | | | | | | | | | | | | | | | | | |
| | | | intercooler | | | | | | | | | | | | | | | | | |

| | Educational Trainer 4 stroke | | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------|---|--------|------------|-------|
| | engine; 4 in-line cylinders; 4 | | | | |
| | valves per cylinder | | | | |
| | Displacement: 2500/2800 | | | | |
| | cu. Cm | | | | |
| | Power: 150-170 hp at 4000 RPM | | | | |
| | Twin overhead camshaft (DOHC) with timing belt | | | | |
| | Vibration-damping balancing shafts | | | | |
| | Common rail-type direct injection with electroinjectors | | | | |
| | Turbo-supercharger with airair intercooler | | | | |
| | Alternator-oil filter-oil pump With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | LABORATORY | | | | |
| | EQUIPMENT, DIGITAL | | | | |
| | WATER VELOCITY | | | | |
| | METER | | | | |
| | Digital display in ft/sec or | | | | |
| | m/sec; Records 30 data sets | | | | |
| | for later analysis; Rain-proof | | | | |
| | digital computer; Highly | | | | |
| 14 | accurate easy flow | 1 | Unit | 60,000.00 | 60, |
| | monitoring; Debris shedding | | | | |
| | turbo-prop; Lightweight, | | | | |
| | rugged, and reliable | | | | |
| | Telescoping handle with staff gauge; Padded carrying case for easy storage CE Certified With manufacturer's warranty | | | | |
| 15 | LABORATORY | 1 | Unit | 75,000.00 | 75, |
| 13 | EQUIPMENT, Feed | | J 1110 | . 5,500.00 | , , , |

| | | | Pelletizer Granulation Machine | | | | | |
|--|--|----|-------------------------------------------|---|------|-----------|--|------|
| | | | Spec: Automation | | | | | |
| | | | Grande: Automatic | | | | | |
| | | | Brand: Generic | | | | | |
| | | | Die and Roller Size: 6 | | | | | |
| | | | inches | | | | | |
| | | | Dimension: 38 x 12 x 26 | | | | | |
| | | | inch | | | | | |
| | | | Motor Power: 7.5 HP | | | | | |
| | | | Output Capacity: 250 kg/hr | | | | | |
| | | | Pellet Size: 4-10mm; | | | | | |
| | | | Phase: Single | | | | | |
| | | | Product Type: Food Pellet Machine | | | | | |
| | | | Voltage: 220V-240V | | | | | |
| | | | With product quality | | | | | |
| | | | certification or its equivalent | | | | | |
| | | | With manufacturer's warranty | | | | | |
| | | | LABORATORY | | | | | |
| | | | EQUIPMENT, Feed | | | | | |
| | | | Pelletizer Machine with Electric Motor | | | | | |
| | | | Power: 5HP Single Phase | 1 | | 60,000.00 | | |
| | | 16 | Working Load: 80-100 kg/hr | | Unit | | | |
| | | | Default Disc Mill: 3mm | | | | | |
| | | | Boundary Dimension: 750 x | | | | | 60,0 |
| | | | 280 x 700mm | | | | | |
| | | | Voltage source: 220V-240V | | | | | |
| | | | With product quality | | | | | |
| | | | certification or its equivalent | | | | | |
| | | | With manufacturer's warranty | | | | | |
| | | | LABORATORY | | | | | |
| | | | EQUIPMENT, Fiber Optic | 1 | Unit | 80,000.00 | | |
| | | | Splicing Machine | | | | | |
| | | | AC adaptor: 100-220Vac | | | | | |
| | | 17 | input voltage, 60 Hz; 12 | | | | | 80,0 |
| | | | Vdc, 5A output voltage | | | | | |
| | | | With Lithium Battery: | | | | | |
| | | | 11.1V, 5.2Ah | | | | | • |

| | | | T | | T |
|------|-----------------------------------------------------------------------------------------------------------------------------------------|---|------|-----------|----|
| | Applicable to SM, MM, NZ- | | | | |
| | DS, EDF, Pigtail, FTTH | | | | |
| | dropcable SC/LC/FC | | | | |
| | connector | | | | |
| | Average Splice loss: | | | | |
| | 0.02dB(SM), 0.01dB(MM), | | | | |
| | 0.04dB(NZDS), | | | | |
| | 0.04dB(EDF) | | | | |
| | Return Loss: ≥ to 60dB | | | | |
| | Splicing time: 8 seconds | | | | |
| | Heating time: 25 seconds | | | | |
| | Tension Test: 2.0N | | | | |
| | Splicing Program: 50 groups | | | | |
| | Operating Conditions: -10 | | | | |
| | degree celsius to +50 degree | | | | |
| | celsius, 0- 95% RH, 0- | | | | |
| | 5000m (altitude) | | | | |
| | LCD Monitor: 5 inches, high resolution | | | | |
| | Fiber Image Magnification: | | | | |
| | X or Y separately views | | | | |
| | with 400 times | | | | |
| | magnification | | | | |
| | Storage Result: 6,000 groups of latest splice results With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, FM Transmitter Long Range Broadcast Stereo (4 units) Transmitter: FM | | | | |
| 18 | Frequency range: FM: 87-108MHz | 1 | Unit | 68,000.00 | 68 |
| | Step frequency: less than or equal to 100Khz | | | | |
| | Frequency stability: margin of error ± 10PPM | | | | |

| Frequency Stabilization Method: PLL | | |
|------------------------------------------------------|--|--|
| Harmonic Noise: less than | | |
| or equal to -50dB | | |
| Output Impedance: 50 ohms | | |
| Rf output power: up to 15W (8 levels adjustable) | | |
| Pre-highlight: 75 microseconds | | |
| Distortion sound: 0.3% | | |
| Bluetooth distance: about 5 | | |
| meters | | |
| Frequency response: 50Hz~15000Hz | | |
| Split: '30dB | | |
| Frequency adjustment: margin of error ± 75KHZ | | |
| Snr: '60 dB | | |
| Antenna Connector Type: TNC | | |
| Working temperature: -10- 45 degree celsius | | |
| Transmitter Size: 144x100x59mm | | |
| Transmitter weight: 545 | | |
| grams | | |
| Antenna: Connection Type: TNC | | |
| Power: 2.15dB | | |
| Impedance: 50 ohms | | |
| Maximum stretch length: 1150 mm. (3.77 Feet) | | |
| Shortest abbreviation length: 210 mm. (0.69 Feet) | | |
| Feed Length: 5m(16.4ft) | | |
| Power Supply: | | |
| Input voltage: 100-240V 50/60Hz | | |
| Output Power: DC, 12V 3A | | |
| With product quality certification or its equivalent | | |

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|---|-----|----|---------------------------------------------------------------------------|---|------|--------------|-------|
| | | | With manufacturer's | | | | |
| | | | warranty LABORATORY | | | | |
| | | | EQUIPMENT, Handheld XRF for Soil Analysis and Environmental Remediation | | | | |
| | | | | | | | |
| | | | Dimensions: (W x H x D) | | | | |
| | | | $8.3 \text{ cm} \times 28.9 \text{ cm} \times 24.2 \text{ cm}$ | | | | |
| | | | $(3.25 \text{ in.} \times 11.4 \text{ in.} \times 9.5 \text{ in.})$ | | | | |
| | | | Weight: 1.70 kg (3.75 lb) | | | | |
| | | | with battery, 1.48 kg (3.24 | | | | |
| | | | lb) without battery | | | | |
| | | | Excitation Source: -watt X- | | | | |
| | | | ray tube with application- | | | | |
| | | 19 | optimized anode material | | | | |
| | | | [rhodium (Rh), silver (Ag), | 1 | Unit | 1,200,000.00 | 1,200 |
| | | | or tungsten (W)] | | | | |
| | | | Detector: M series | | | | |
| | | | Large-area silicon drift detector | | | | |
| | | | Power: Removable 14.4V Lithium-ion battery with hot-swap capability | | | | |
| | | | Display: 800×480 | | | | |
| | | | (WVGA) LCD with | | | | |
| | | | capacitive touch screen | | | | |
| | | | supporting gesture control With product quality | | | | |
| | | | certification or its equivalent | | | | |
| | | | With manufacturer's warranty | | | | |
| | | | LABORATORY | | | | |
| | | 20 | EQUIPMENT, Heavy duty | | | | |
| | | | over locker machine with | | | | |
| | | | table | | | | |
| | | | 1300-1500 max sewing | 2 | Unit | 60,000.00 | 120, |
| | | | speed 3/4 thread, 4 color | | | | |
| | | | easy threading guide 2-4 | | | | |
| | | | thread overlocker | | | | |
| | | | | • | Ī | | |

| | | • | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------|
| | LED work light With product quality certification or its equivalent With manufacturer's warranty | | | | |
| 21 | Follow Power: 1,000 RPM Size: 720 x 480 x 1400 mm Weight: 49 kg Power source: 220 V, 60 hz With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 100,000.00 | 100, |
| 22 | EQUIPMENT, LAN Trainer Set: wired and wireless FEATURES PC to PC communication with IEEE 802.3 Wireless LAN-IEEE 802.11b Token Bus - IEEE 802.4 Network design using RJ45 connectors Error generation Real time graphical representation of entire transmission & reception User friendly software SPECIFICATIONS Hardware PC to PC using RJ-45 Connector | 1 | Unit | 290,000.00 | 290, |

| | | ı | | . |
|----------|--------------------------------------------------------|---|---|----------|
| | Star topology using RJ45 Connector | | | |
| | Bus topology using RJ45 | | | |
| | Connector | | | |
| | Data transmission speed: 10/100 Mbps | | | |
| | 4 Nodes | | | |
| | | | | |
| | Software | | | |
| | Bus, Ethernet, Wireless Topology | | | |
| | Protocols: Stop N Wait, Go back to N, Selective repeat | | | |
| | Packet size: 128, 256, 512, 1024, 2048, 4096, 8192, | | | |
| | 16384 | | | |
| | Inter Packet delay: 1000- | | | |
| | 5000 ms | | | |
| | Error generation: | | | |
| | Acknowledgment lost, bad | | | |
| | packet, auto error generation | | | |
| | Data encryption & | | | |
| | decryption | | | |
| | Complete analysis of Network & Protocols | | | |
| | Graphic representation of | | | |
| | data on s/w screen with | | | |
| | packet details | | | |
| | Network details indication | | | |
| | of computer name, IP | | | |
| | address, Port number, status | | | |
| | of network, MAC address | | | |
| | and OS on computer. | | | |
| | Indication of packet serial | | | |
| | number, file name, file size, | | | |
| | file number, receiver name, | | | |
| | Workgroup, receiver IP | | | |
| | address, total packets, packet | | | |
| | length, time out, protocol, | | | |
| <u> </u> | <u> </u> | | 1 | |

| | P | | | | - | | |
|---|----|-------------------------------------------------------|---|---|-----------|-----|------|
| | | topology, receiver, MAC | | | | | |
| | | address, port number, file | | | | | |
| | | send start time, file sent | | | | | |
| | | completion time, | | | | | |
| | | transmission time data | | | | | |
| | | rate(Mbps), error. | | | | | |
| | | Power Supply: 220 V margin of error plus minus 10%, | | | | | |
| | | 50 Hz / 60 Hz on request | | | | | |
| | | Power Consumption: 1.8 | | | | | |
| | | VA (approx.) Evolution of | | | | | |
| | | dynamic behavior. | | | | | |
| | | Experiments that can be performed | | | | | |
| | | Study & implementation of cable designs in networking | | | | | |
| | | Implementation of PC to PC with IEEE 802.3 | | | | | |
| | | Implementation of PC to PC with IEEE 802.11 b | | | | | |
| | | Implementation of Bus topology with IEEE 802.4 | | | | | |
| | | Study of protocols | | | | | |
| | | Study of flow control | | | | | |
| | | Stop-N-wait | | | | | |
| | | Go back to N Selective | | | | | |
| | | repeat With product quality | | | | | |
| | | certification or its equivalent | | | | | |
| | | With manufacturer's warranty | | | | | |
| | | LABORATORY | | | | | |
| | | EQUIPMENT, Moisture | | | | | |
| | | analyzer (multi-crop) Input voltage: 220V- | | | | | |
| | | 240V/50-60Hz | _ | | 0-000 | | ~ - |
| | 23 | Weighing capacity [Max]: | 1 | | 97,000.00 | | 97,0 |
| | | 200g | | | | | |
| | | Weighing units: % | | | | | |
| | | Trockenmasse g, % Feuchte Maximum humidity: 80% | | | | | |
| 1 | | 1714/11114111 Halling. 00/0 | | I | 1 | 1 1 | |

| | Maximum operating | | | <u> </u> | |
|-----|-------------------------------------|---|-------|-----------|------|
| | temperature: 40 degrees | | | | |
| | Celsius | | | | |
| | Minimum ambient | | | | |
| | temperature: 5 degrees | | | | |
| | Celsius Minimum humidity: 5% | | | | |
| | Readability (moisture): | | | | |
| | 0.050% | | | | |
| | Tare range: 200g | | | | |
| | LABORATORY | | | | |
| | EQUIPMENT, | | | | |
| | Multiparameter Water | | | | |
| | Quality Meter | | | | |
| | Portable Type pH Range - | | | | |
| | 2.000-20.000pH | | | | |
| | Resolution 0001,0.01,0.1pH | | | | |
| | Selectable Accuracy: 0.002pH | | | | |
| | Calibration Points: 1 to 5 points | | | | |
| | pHBuffer Options USA, | | | | |
| | NIST, DIN, 2 custom | | | | |
| | buffers ORP Range margin | | | | |
| 2.1 | of error plus minus | 1 | TT ** | 60,000,00 | 60.6 |
| 24 | 1999.9mV Resolution 0.1, | 1 | Unit | 60,000.00 | 60,0 |
| | 1mV, selectable Accuracy | | | | |
| | margin of error plus minus | | | | |
| | 0.2mV | | | | |
| | Calibration Points: 1 point | | | | |
| | Ion Range: 0.001~19999 | | | | |
| | (depending on the range of | | | | |
| | ISE) | | | | |
| | Resolution: 0.001, 0.01, 0.1, | | | | |
| | 1 | | | | |
| | Accuracy margin of error ±0.5% F.S. | | | | |
| | (monovalent), margin of | | | | |
| | error plus minus 1% F.S. | | | | |
| | (divalent) Measurement | | | | |

| Units ppm, mg/L, mol/L, | | |
|------------------------------------------------------------------------------------|--|--|
| mmol/L | | |
| Calibration Points: 2 to 5 points (0.001, 0.01, 0.1, 1, 10, | | |
| 100, 1000, 10000) | | |
| Conductivity Range: 0.01~20.00, 200.0, 2000 micro S/cm, 20.00, 200.0mS/cm | | |
| Resolution: 0001, 0.01,0.1, 1 | | |
| Accuracy margin of error: ± 0.5% F.S. | | |
| Calibration Points: 1 to 5 points | | |
| Calibration Solutions: 10microS/cm, 84microS/cm, | | |
| 1413microS/cm, | | |
| 12.88mS/cm, 111.8mS/cm | | |
| Temperature Coefficient | | |
| Linear (0.0-10.0%/degree | | |
| celsius) pure water | | |
| Reference Temperature 20/25 degree celsius | | |
| Cell Constant K=0.1, 1, 10 or custom | | |
| TDS Range: 0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt | | |
| Resolution 001,0.1,1 | | |
| Accuracy margin of error plus minus 1% F.S. | | |
| TDS Factor 0.1~1.0 (default 0.5) | | |
| Salinity Range 0.00~42.00psu, 0.00~80.00ppt | | |
| Resolution 0.01 | | |
| Accuracy margin of error: ± | | |
| 1% F.S. | | |
| Resistivity Range | | |
| 0.00~20.00M? Resolution | | |

| | | 0.01 Accuracy margin of | | | | |
|--|----|----------------------------------------------------|---|------|------------|------|
| | | error ± 1% F.S. | | | | |
| | | DO Range 0.00~20.00mg/L, 0.0~200.0% saturation | | | | |
| | | Resolution 001mg/L,0.1% | | | | |
| | | Accuracy margin of error | | | | |
| | | ± 0.2mg/L, margin of error | | | | |
| | | plus minus 2.0% | | | | |
| | | Calibration Points 1 or 2 | | | | |
| | | points | | | | |
| | | With product quality | | | | |
| | | certification or its equivalent | | | | |
| | | With manufacturer's warranty | | | | |
| | | LABORATORY | | | | |
| | | EQUIPMENT, ONE SET | | | | |
| | | (ONE BASE AND ONE ROVER) | | | | |
| | | MULTI- FREQUENCY | | | | |
| | | GNSS RECEIVER FOR | | | | |
| | | STATIC, RTK AND PPK | | | | |
| | | APPLICATION | | | | |
| | | APPLICATION: With | | | | |
| | | static, post Processed and | | | | |
| | | real time kinematic. Display: | | | | |
| | | NO DIGITAL DISPLAY | | | | |
| | | Satellite Tracking: GPS, GLONASS, BEIDOU AND | | | | |
| | 25 | GALILEO, QZSS, SBAS | 1 | Unit | 590,000.00 | 590, |
| | | ACCURACY: MINIMUM | | | | |
| | | High-Precision Static (RMS) | | | | |
| | | Horizontal 2.5mm+0.1ppm | | | | |
| | | Vertical 3.5mm+0.4ppm | | | | |
| | | Static & Fast Static (RMS) Horizontal 2.5 mm + 0.5 | | | | |
| | | ppm | | | | |
| | | Vertical 5 mm + 0.5 ppm | | | | |
| | | Real Time Kinematic (RMS) | | | | |
| | | Horizontal 8 mm + 1 ppm | | | | |
| | | Vertical 15 mm + 1 ppm | | | | |
| | | Post Processed Kinematic | | | | |
| | | (RMS) Special feature: | | | | |

| | | REALLY FIX UNDER | | | | |
|--|----|---------------------------------|---|------|------------|------|
| | | CANOPIES (must be tested | | | | |
| | | in actual) FREE INTERNET | | | | |
| | | RTK SUBSCRIPTION | | | | |
| | | (NTRIP) | | | | |
| | | Battery operation must be | | | | |
| | | 16hours with two batteries | | | | |
| | | with led light indicator in | | | | |
| | | battery for charge status | | | | |
| | | must be NTC type approved | | | | |
| | | must be a direct distributor | | | | |
| | | (exclusive) software 1. can | | | | |
| | | be installed in android | | | | |
| | | phones, tablet or any android | | | | |
| | | gadgets | | | | |
| | | 2. free and downloadable at | | | | |
| | | anytime controller software | | | | |
| | | must have data quality | | | | |
| | | control like configuring only | | | | |
| | | the allowable tolerable error. | | | | |
| | | With product quality | | | | |
| | | certification or its equivalent | | | | |
| | | With manufacturer's | | | | |
| | | warranty | | | | |
| | | LABORATORY | | | | |
| | | EQUIPMENT, Petrol | | | | |
| | | Engine, Electronic | | | | |
| | | Fuel Injection (EFI) System | | | | |
| | | Training Equipment 4 | | | | |
| | | cylinders engine, DOHC, 1.3 | | | | |
| | | CC minimum piston | | | | |
| | | displacement, with OBD 2 | | | | |
| | | diagnostic socket, with | | | | |
| | | functional dashboard | | | | |
| | | instrument panel, real and | | | | |
| | 26 | operable engine fuel | 1 | Unit | 170,000.00 | 170, |
| | | injection system to illustrate | | | | |
| | | the structure & working | | | | |
| | | process, equipment with | | | | |
| | | intelligent fault setting and | | | | |
| | | appraisal system, include | | | | |
| | | fault setting, troubleshooting | | | | |
| | | & assessment functions, etc., | | | | |
| | | it uses ordinary 220 ACV | | | | |
| | | power which will | | | | |
| | | transformed into 12 DCV as | | | | |
| | | power source, has metal | | | | |

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|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------|
| | base frame, paint coated, with table top attached to the frame, and metal wheel with lock on base of frame for mobility. with manufacturer warranty on parts and labor, with manual of operation (english version) and include training on the use of equipment With product quality certification or its equivalent With manufacturer's | | | | |
| 27 | Assessments: 2, 3 and 7 skinfold sites, Circumference Body Fat Calculation and Bio- Impedance Calculation. Flexibility Protocols: Sit & Reach Test, Trunk and Shoulder Rotation. Cardiovascular Assessments: Bike Ergometer Tests, | 1 | Unit | 400,000.00 | 400, |
| | Treadmill Tests, Adult Field Tests | | | | |

| | Strength Protocols: Biceps | | |
|--|------------------------------------------------------------|--|--|
| | Strength Test, Pushups, Sit- | | |
| | ups, 1- Rep Max Protocols. | | |
| | Features System | | |
| | Computer Interface Unit | | |
| | Integrated, Medical Grade | | |
| | Cart With appropriate/competible | | |
| | With appropriate/compatible computer hardware and software | | |
| | With all-in-one inkjet Color Printer | | |
| | Interactive Fitness Testing Equipment Skinfold Caliper | | |
| | Wireless Polar Heart Rate System Isometric Strength | | |
| | System Modified Sit and Reach Station Body Weight | | |
| | Platform | | |
| | Fitness Assessment and Exercise Planning Software | | |
| | (including President?s | | |
| | Challenge and other | | |
| | assessment protocols) | | |
| | Training Videos & Tutorials Reports | | |
| | Student Personal Profile (up | | |
| | to 20 pages) Graphical and | | |
| | Data Summary Trend | | |
| | (compares 6 assessments) | | |
| | Class Lists and Database | | |
| | Query | | |
| | Parent Mail Merge Letters, Labels and Envelopes | | |
| | Available Options | | |
| | Testing Equipment | | |
| | Treadmill, System Interface | | |
| | and Software Autobike, | | |
| | Interactive Testing Bike | | |

| wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|--------------------------|---|------|------------|------|
| Skinfold Caliper Upgrade Bioimpedance Scale Software Health Risk Appraisal (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | _ | | | | |
| Bioimpedance Scale Software Health Risk Appraisal (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | | • | | | | |
| Software Health Risk Appraisal (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | | - | | | | |
| (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | | Health Risk Appraisal | | | | |
| Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | (includes CDC Youth Risk | | | | |
| Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | • / | | | | |
| Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| hardware, software) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
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| certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Minimum lubrication: Semi- | | | | | | | |
| With manufacturer's warranty LABORATORY EQUIPMENT, Portable 28 Transmittance Spectromata 1 Unit 200,000.00 20 wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)-verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Minimum lubrication: Semi- | | | | | | | |
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| EQUIPMENT, Portable Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM | | | warranty | | | | |
| 28 Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)-verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM | | 28 | | 1 | Unit | 200 000 00 | 200, |
| high precision CCD sensor LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM 1 Unit 300,000.00 30 Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | 20 | | 1 | Oint | 200,000.00 | 200, |
| EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | = | | | | |
| Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM | | | | | | | |
| Manual Box Sheet Bender Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM | | | | | | | |
| Width: 1220MM (48?)- verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | · · | | | | |
| verify 29 Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | 29 | Max thickness: 1.5MM | 1 | Unit | 300,000.00 | 300, |
| With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | Bending Angle: 0-120° | | | | |
| certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | Weight: 95kgz | | | | |
| With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| Warranty LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| Needle Lock Stitch Machine with Table 30 Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | · · · | | | | |
| with Table Lock stitcher Direct electronic feed control Minimum lubrication: Semi- | | | EQUIPMENT, Single | | | | |
| Lock stitcher 2 Unit 50,000.00 10 Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| Direct electronic feed control Minimum lubrication: Semi- | | | | | | | |
| control Minimum lubrication: Semi- | | 30 | | 2 | Unit | 50,000.00 | 100, |
| Minimum lubrication: Semi- | | | | | | | |
| | | | | | | | |
| Dry | | | Dry | | | | |

| For medium to heavy materials 5,000-4000 stitches per minute With product quality certification or its equivalent With manufacturer's warranty | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|-----|
| LABORATORY EQUIPMENT, Water Quality Monitoring Kit Can test pH (range: 3 - 10.5), nitrate-nitrogen (0-15 ppm), phosphate (0.2 ppm), dissolved oxygen (0-10 ppm), total alkalinity (0-200 ppm), turbidity (0-200 JTU), and temperature (0-5 to 45 degrees centigrade). | 2 | Unit | 50,000.00 | 100 |
| MONITOR, Patient Monitor Measured parameter: ECG, CO2, NIBP, IBP, SpO2 High-Definition Capacitive Touch Screen weight.: 4.8 kg, size: 310 x289 x169mm USB interface support Multi display mode; Built in high capacity battery up to 2 hours of continuous work; VGA output for continuous display Display screen: Capacitive screen, support multi-touch operation. 12.1-inch, 1280 x 800 pixels; display channel: Up to 10 waveform channels ECG; Led mode, 5 leads SPO2; measuring range 0- 100%; Resolution: 1%; | 1 | Unit | 100,000.00 | 100 |

| | | L |
|-------------------------------------------------|--|-------|
| Accuracy- 70%- 100%; | | |
| Pulse rate: 20-250BPM | | |
| NIBP, Method: Oscillatory; | | |
| Measure mode: Manual, | | |
| AUto STAT; UNit: mmHGg, kPa; Auto measure time: | | |
| Adjustable Measurement | | |
| range: 10-270mmHg | | |
| ECG: | | |
| Lead mode: 3-lead or 5-lead | | |
| Lead selection: I, II, III, avR, avL, avF, V | | |
| Heart rate range: Adult: 15-300bpm, | | |
| Pediatric/Neonatal: 15-300bpm | | |
| ECG waveform: 2 channels | | |
| Accuracy: 1 bpm or 1% S-T | | |
| segment detection | | |
| Measurement range:- | | |
| 0.2mv~2.0mv | | |
| Alarm: Yes, audible and | | |
| visual alarm, alarm events | | |
| review PO2: Measurement | | |
| range: 0-100% | | |
| Accuracy: 70-100%, 2% 0-69%, | | |
| unspecified Pulse rate: | | |
| Range: 20-254bpm; | | |
| Accuracy: 3bpm | | |
| Respiration: Method: RA-LL impedance | | |
| Range: Adult:0-120rpm; | | |
| pediatric/neonatal:0-150rpm; | | |
| Apnea alarm: Yes | | |
| Temperature: Range: 0-50 | | |
| EtCO2; Measurement Mode: | | |
| Side-stream or mainstream | | |

| T | | | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------|---|-------|------------|------|
| | Measurement range: EtCO2: 0-99mmHg; | | | | |
| | Accuracy: CO2 | | | | |
| | concentration | | | | |
| | Apnea alarm: YES | | | | |
| | With accessories; 2 years warranty and after sales service | | | | |
| | With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | MULTIMETER, Water Quality Multi-meter | | | | |
| | Parameters Measured: Dissolved Oxygen (%), | | | | |
| | Dissolved Oxygen (mg/L), Temperature, Turbidity, | | | | |
| | Conductivity, Specific Conductance, Resistivity, | | | | |
| 3 | Salinity, Water Density, pH, ORP, Ammonium, Nitrate, | 1 | Unit | 200,000.00 | 200, |
| | Chloride, Total Dissolved Solids (TDS), Total | | | | |
| | Suspended Solids (TSS), Depth, Barometer With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | TABLE, Teacher Demo Table with Sink and Overhead | | | | |
| | Mirror | | | | |
| | Demonstration Mirror - | | | | |
| | Mirror bottom is 29 in. | 1 | TT 1. | 00 000 00 | 00.4 |
| | above tabletop. | 1 | Unit | 80,000.00 | 80,0 |
| | Cooktop - Ceramic glass | | | | |
| | with two burners (1,200 | | | | |
| | watts each), 15-ft extension | | | | |
| | cord, and a 120V GFCI | | | | |
| 1 1 | 1 | | 1 | i l | |

| duplex receptacle with 20-ft. extension cord. 120V, 20A. Built-in Sink - Stainless steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's warranty TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity.] | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|-------------------|--|------|
| Built-in Sink - Stainless steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's warranty TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches 1 Unit 325,000.00 Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] | | | duplex receptacle with 20-ft. | | | | | |
| steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's warranty TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] | | | extension cord. 120V, 20A. | | | | | |
| TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's | | | | | |
| Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | TANK, Argon tank with | | | | | |
| Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | argon gas | | | | | |
| Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | Cylinder Type Name: T 330 | | | | | |
| Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | - · | | | | | |
| Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | 35 | Diameter: 9.2 inches | 1 | | 325 000 00 | | 325, |
| Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty 20.2 [List here any licenses and permits relevant to the Project and the corresponding law requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | | 1 | Cint | 323,000.00 | | 343, |
| requiring it.] 21.2 [List here any additional contract documents relevant to the Project that may be required | | | Weight: 170 pounds With product quality certification or its equivalent With manufacturer's | | | | | |
| 21.2 [List here any additional contract documents relevant to the Project that may be required | 20.2 | [List here | any licenses and permits relevo | int to the | Project and the o | corresponding law | | _ |
| | | | | | | | | |
| | 21.2 | | | | | | | |

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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**.

[Include the following clauses if Framework Agreement will be used:]

- 2.3. For a single-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier in its bid.
- 2.4. For multi-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier during conduct of Mini-Competition.

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 prior to 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. [Include if Framework Agreement will be used:] In the case of Framework Agreement, the Bidder

may opt to furnish the performance security or a Performance Securing Declaration as defined under the Guidelines on the Use of Framework Agreement.}

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 {[Include if Framework Agreement will be used:] or Framework Agreement] specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the SCC, Section IV (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

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

| [List here any additional requirements for the completion of this Contract. The following requirements and the corresponding provisions may be deleted, amended, or retained depending on its applicability to this Contract:] |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: |
| [For Goods supplied from abroad, state:] "The delivery terms applicable to the Contract are DDP delivered [indicate place of destination]. In accordance with INCOTERMS." |
| [For Goods supplied from within the Philippines, state:] "The delivery terms applicable to this Contract are delivered [indicate place of destination]. 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 <i>Ms. Divina DC. Pinaroc</i> . |
| 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.
- f. [Specify additional incidental service requirements, as needed.]

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:

Select appropriate requirements and delete the rest.

- a. 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
- b. 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 cost 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 [indicate here the time period specified. If not used indicate a time period of three times the warranty period].

Spare parts or components shall be supplied as promptly as possible, but in any case, within [*insert appropriate time period*] months 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. 2.2 [If partial payment is allowed, state] "The terms of payment shall be as follows: Not applicable 4 The inspections and tests that will be conducted are: Quality and functional ICT Equipment. Complete and conforms to the technical specifications.

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.

| Unit | Particulars | Qty | Total | Delivered, Weeks/ Months |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general-purpose storage to contain putrid organic odors as well as fumes With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty | 1 | 210,000.00 | |
| Unit | CALIBRATION EQUIPMENT, Inverted Microscope Infinite Optical System, Extra wide field eyepiece EW10X/22 Viewing Head: Trinocular head inclined at 30degrees, interpupillary distance 48-75mm Objective LWD infinite plan objective 4X/0.1,WD 17.3mm; 40X/0.6,WD 2.1mm Infinite plan phase objective PH10X/0.25,WD 10mm, PH20X/0.4,WD 5.1mm Quintuple nosepiece LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X-20X,40X phase annulus plate(fixed) Illumination: Halogen lamp 6V/30W With product quality certification or its equivalent With manufacturer's warranty | 1 | 80,000.00 | 60 Calend ar Days |
| Unit | CALIBRATION EQUIPMENT, NIR | 1 | 200,000.00 | |
| | Unit | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general-purpose storage to contain putrid organic odors as well as fumes With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty CALIBRATION EQUIPMENT, Inverted Microscope Infinite Optical System, Extra wide field eyepiece EW10X/22 Viewing Head: Trinocular head inclined at 30degrees, interpupillary distance 48-75mm Objective LWD infinite plan objective 4X/0.1,WD 17.3mm; 40X/0.6,WD 2.1mm Infinite plan phase objective PH10X/0.25,WD 10mm, PH20X/0.4,WD 5.1mm Quintuple nosepiece LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X-20X,40X phase annulus plate(fixed) Illumination: Halogen lamp 6V/30W With product quality certification or its equivalent With manufacturer's warranty | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general-purpose storage to contain putrid organic odors as well as fumes With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty CALIBRATION EQUIPMENT, Inverted Microscope Infinite Optical System, Extra wide field eyepiece EW10X/22 Viewing Head: Trinocular head inclined at 30degrees, interpupillary distance 48-75mm Objective LWD infinite plan objective 4X/0.1,WD 17.3mm; 40X/0.6,WD 2.1mm Infinite plan phase objective PH10X/0.25,WD 10mm, PH20X/0.4,WD 5.1mm Quintuple nosepiece LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X-20X,40X phase annulus plate(fixed) Illumination: Halogen lamp 6V/30W With product quality certification or its equivalent With manufacturer's warranty CALIBRATION EQUIPMENT, NID | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general-purpose storage to contain putrid organic odors as well as fumes With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty CALIBRATION EQUIPMENT, Inverted Microscope Infinite Optical System, Extra wide field eyepiece EW10X/22 Viewing Head: Trinocular head inclined at 30degrees, interpupillary distance 48-75mm Objective LWD infinite plan objective 4X/0.1,WD 17.3mm; 40X/0.6,WD 2.1mm Infinite plan phase objective PH10X/0.25,WD 10mm, PH20X/0.4,WD 5.1mm Quintuple nosepiece LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X-20X,40X phase annulus plate(fixed) Illumination: Halogen lamp 6V/30W With product quality certification or its equivalent With manufacturer's warranty CALIBRATION EQUIPMENT, NID. |

| I | | | | I | ı |
|----|------|--------------------------------------------------------------------------------------------------------------------|---|------------|---|
| | | spectrometer analyzer portable spectrometer | | | |
| | | Wavelength Range: 350-950 Stray light: less | | | |
| | | than or equal to 0.3% | | | |
| | | Spectral bandwidth (FWHM): 2nm CCT range: 1,000K~ | | | |
| | | 100,000K | | | |
| | | Frequency range: 25-1KHz | | | |
| | | Chromaticity coordinate accuracy: margin of | | | |
| | | error plus minus 0.0025 Application: | | | |
| | | Medical Beauty Light source | | | |
| | | Frequency sampling rate: 1-10KHz With product quality certification or its equivalent With manufacturer's warranty | | | |
| | | CALIBRATION EQUIPMENT, Portable | | | |
| | | Biogas | | | |
| | | Analyzer | | | |
| | | Gases detected CH4, CO2, H2S, O2 | | | |
| | | Measuring range CH4: (0-100)%vol CO2: (0-100)%vol | | | |
| | | H2S: (0~1000) ppm O2: (0~30.0)% vol | | | |
| | | Resolution ratio CH4: 1%vol, CO2: 1%vol, H2S: 1ppm, | | | |
| | | O2: 0.1%vol | | | |
| | | Sensor Infrared sensor and electrochemical sensor | | | |
| 4. | Unit | Sensor lifetime greater than or equal to 5years (CH4, | 1 | 100,000.00 | |
| | | CO2) | | | |
| | | greater than or equal to 2years (H2S, O2) | | | |
| | | Response time CH4: less than or equal to 45S (T90) | | | |
| | | CO2: less than or equal to 45s (T90) | | | |
| | | H2S:less than or equal to45s (T90) O2: less | | | |
| | | than or equal to45s (T90) | | | |
| | | Alarms Audiblebuzzer with greater than or | | | |
| | | equal to 80dB audible Visible-flashing red | | | |
| | | LED, greater than or equal to 20m visible | | | |
| | | Alarm point Fully adjustable Data logging | | | |

| | | Continuous Data logging (1900 events at configurable 0.1-10 minutes intervals) Continuous working time greater than or equal to 13hours Display Liquid Crystal Display (LCD) Battery model PL123450, 3.7V/1500mA Charging time 4-5 hours | | | |
|----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|--|
| | | Dust and water resistance IP65 With product quality certification or its equivalent With manufacturer's warranty | | | |
| 5. | Unit | CALIBRATION EQUIPMENT, Water Activity Meters Measurement range: 0.1 to: 0.98 Aw (5- 45 degree Celsius) Measuring principle: Electrolytic (surface IR and NTC) Measurement accuracy: AW margin of error plus and minus 0.01 (margin of error plus and minus 15 degrees celsius) precision: margin of error plus and minus 0.003aw within the adjustment range (margin of error plus and minus 0.1 degree celsius) Resolution: 0.001aw (0.1 degree celsius) Accuracy: margin of error plus and minus 0.010aw within calibration range (margin of error plus and minus 0.15 degree celsius) With product quality certification or its equivalent With manufacturer's warranty | 1 | 190,000.00 | |
| 6. | Unit | LABORATORY EQUIPMENT, Analyzer Glass-less infrared heating increases efficiency for faster results Flexible performance: Provides accurate results at either 0.1% or 10 mg readability, and is ideal for textiles, wastewater, ceramics, food and other applications that require IR heating elements and measurements to 0.1% | 1 | 220,000.00 | |

| | | Simple to energia: Set up and energia: | | | |
|----|------|------------------------------------------------------------------------|----------|-----------|---|
| | | Simple to operate: Set up and operation is | | | |
| | | extremely easy, just press and hold the | | | |
| | | temperature or time buttons to set drying | | | |
| | | parameters, add your sample and begin the | | | |
| | | test process. This makes the analyzer ideal | | | |
| | | for routine tasks performed by operators of | | | |
| | | all skill levels | | | |
| | | Compact, easy-to-clean design: The | | | |
| | | compact footprint 6.0-7.0 x 5- 6 x 11-12" | | | |
| | | (15-18 x 12-15x 25 cm-30 cm) of the | | | |
| | | analyzer is designed to take up less space and | | | |
| | | the easy-to-clean heating chamber is ideal | | | |
| | | for frequent use and inexpensive | | | |
| | | maintenance | | | |
| | | User-friendly touch-button design for easy | | | |
| | | operation operation | | | |
| | | Compact design suits any workspace | | | |
| | | Three shut off criteria (manual, timed or | | | |
| | | auto) | | | |
| | | One standard heating profile | | | |
| | | 40 to 200 degree celsius heating range (4-8 degree celsius increments) | | | |
| | | With product quality certification or its | | | |
| | | equivalent | | | |
| | | With manufacturer's warranty | | | |
| | | LABORATORY EQUIPMENT, Antibiotic Disc | | | |
| | | Dispenser and Zone Reader | | | |
| | | Diameter Range: 0 to 80.0 mm | | | |
| | | Resolution: 0.1 mm | | | |
| 7. | Unit | Illumination: Lamp/LED 12 V/ DC | 1 | 70,000.00 | |
| | | Display: 4 digit seven segment LED display | | | |
| | | Power Supply: 230V +10% AC, 60Hz | | | |
| | | With product quality certification or its | | | |
| | | equivalent | | | |
| | | With manufacturer's warranty LABORATORY EQUIPMENT, | | | |
| | | Archimedes Principle | | | |
| 8. | Set | Apparatus Set SDFDEWER | 1 | 70,000.00 | |
| | | This set includes | | | |
| | | | <u> </u> | | l |

| | ı | 1 Danistra ant | I | | |
|----|------|--------------------------------------------|---|------------|--|
| | | 1 Density set | | | |
| | | 1 Overflow can 1 large rod base | | | |
| | | 1 stainless Steel rod, 45 cm 1 Braided | | | |
| | | physics string 1 Ohaus Triple-beam balance | | | |
| | | (with Tare) 1 stainless caliper | | | |
| | | 1 1000 ml beaker | | | |
| | | 1 100 ml beaker | | | |
| | | 1 50 ml graduated cylinder | | | |
| | | 1 Archimedes Principle Experiment | | | |
| | | With product quality certification or its | | | |
| | | equivalent With manufacturer's warranty | | | |
| | | LABORATORY EQUIPMENT, Arduino | | | |
| | | Artificial | | | |
| | | Intelligence Suite (Dobot Basic AI Kit) | | | |
| | | DfRduino Mega2560 V3 Specs: | | | |
| | | Microcontroller: ATmega2560 | | | |
| | | Operating Voltage 5V | | | |
| | | Input Voltage (recommended): 7V-12V | | | |
| | | Input Voltage (range): 6V-20V | | | |
| | | Digital I/O Pins: 54 (of which 15 provide | | | |
| | | PWM output) | | | |
| | | Analog Input Pins: 16 I/O | | | |
| | | DC Current per I/O Pin: 50 mA | | | |
| | | DC Current for 3.3V Pin: 50 mA | | | |
| 9. | Unit | Flash Memory: 256 KB of which 4 KB used | 1 | 425,000.00 | |
| | | by the bootloader | | | |
| | | SRAM: 8 KB | | | |
| | | EEPROM: 4 KB Clock Speed: 16MHz | | | |
| | | Pixy CMUcam5 Specs: | | | |
| | | Processor: NXP LPC330, 204MHz, dual- | | | |
| | | core | | | |
| | | Image Sensor: Omni vision OV9715, 1/4", | | | |
| | | 1280x800 Image Sensor: 75 degrees | | | |
| | | horizontal, 47 degrees vertical | | | |
| | | Lens Type: Standard M12 (several different | | | |
| | | types available) | | | |
| | | Power Consumption: 140 mA | | | |
| | | r |] | | |

| | Power Input: USB Input (5V) or unregulated | | |
|-----------|-----------------------------------------------------------------------------|---|------------|
| | input (6V to 10V) | | |
| | RAM: 264K bytes | | |
| | Flash: 1M bytes | | |
| | Available Data Outputs: UART serial, SPI, | | |
| | I2C, USB, | | |
| | Digital, Analog | | |
| | Size: 2.1" × 1.75" × 1.4" | | |
| | Keycap Color: Red, Green, Blue Supply Voltage: 3.3V - | | |
| | 5V | | |
| | Data Type Digital Size: 22mm × 30mm | | |
| | LED Module Specs: | | |
| | Color: Red, Green, Blue | | |
| | Brightness: 2500mcd to 3300mcd | | |
| | Highlight Output Voltage: 3.3V - 5V | | |
| | Wavelength: 520nm - 530nm | | |
| | Angle: 80° - 110° Size $30 \text{mm} \times 20 \text{mm}$ | | |
| | Weight: 5g | | |
| | With product quality certification or its | | |
| | equivalent With manufacturer's warranty | | |
| | , | | |
| | LABORATORY EQUIPMENT, Brake | | |
| | dynamometer | | |
| | Analog/Digital | | |
| 10 Unit | Max Power range: 10-20 hp | 1 | 250,000.00 |
| 10 0 1111 | Max RPM: 2000 rpm | 1 | 230,000.00 |
| | Max Torque: 400 Nm With product quality certification or its | | |
| | equivalent | | |
| | With manufacturer's warranty | | |
| | LABORATORY EQUIPMENT, | | |
| | Conservation of | | |
| | Momentum Apparatus (complete set) | | |
| 11 Set | This set includes: | 1 | 70,000,00 |
| 11 Set | 2 cart mass | 1 | 70,000.00 |
| | | | |
| | 2 small cart | | |
| | 2 small cart 2 Dynamics Track end stop (Pair) 2 Dynamics Track feet | | |

| | | 1 Alvaniana Damania Territ | | | |
|-----|------|------------------------------------------------------------------------------------|---|------------|--|
| | | 1 Aluminum Dynamics Track 1 small cart rod stand adapter | | | |
| | | With product quality certification or its | | | |
| | | equivalent | | | |
| | | With manufacturer's warranty | | | |
| | | LABORATORY EQUIPMENT, | | | |
| | | Conventional Milling Machine | | | |
| | | Drilling Capacity: 45mm diameter | | | |
| | | Face milling Capacity: 80mm diameter | | | |
| | | End milling Capacity: 32mm diameter | | | |
| | | Max. Dist. from Spindle nose to table 450mm | | | |
| | | Min. dist. From spindle axis to column 260mm | | | |
| | | Spindle travel: 130 mm | | | |
| 12 | Unit | Spindle speed @ 60Hz 95-1500RPM | 1 | 220,000.00 | |
| 12 | Cint | Table size: 800x240mm | 1 | 220,000.00 | |
| | | Motor power: 1.5 KW (2HP) | | | |
| | | Std. Accessories: | | | |
| | | 1 set of collet, 4 milling vise, clamping kit, | | | |
| | | 10 pc end mill cutter | | | |
| | | Features: Gear Driven, Head Swivels 90° vertically, micro feed precision. With DRO | | | |
| | | (Digital Read Out) With product quality certification or its | | | |
| | | equivalent | | | |
| | | With manufacturer's warranty | | | |
| | | LABORATORY EQUIPMENT, Diesel | | | |
| | | engine with common rail intercooler | | | |
| | | Educational Trainer 4 stroke engine; 4 in- | | | |
| | | line cylinders; 4 valves per cylinder | | | |
| | | Displacement: 2500/2800 cu. Cm | | | |
| | | Power: 150-170 hp at 4000 RPM | | | |
| 13. | Unit | Twin overhead camshaft (DOHC) with timing belt | 1 | 70,000.00 | |
| | | Vibration-damping balancing shafts | | | |
| | | Common rail-type direct injection with | | | |
| | | electro-injectors | | | |
| | | Turbo-supercharger with air-air intercooler | | | |
| | | Alternator-oil filter-oil pump | | | |
| | | With product quality certification or its | | | |
| | | equivalent | | | |

| | | With manufacturer's warranty | | | |
|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|--|
| 14 U | Unit | LABORATORY EQUIPMENT, DIGITAL WATER VELOCITY METER Digital display in ft/sec or m/sec; Records 30 data sets for later analysis; Rain-proof digital computer; Highly accurate easy flow monitoring; Debris shedding turbo-prop; Lightweight, rugged, and reliable Telescoping handle with staff gauge; Padded carrying case for easy storage CE Certified With manufacturer's warranty | 1 | 60,000.00 | |
| 15 U | Unit | LABORATORY EQUIPMENT, Feed Pelletizer Granulation Machine Spec: Automation Grande: Automatic Brand: Generic Die and Roller Size: 6 inches Dimension: 38 x 12 x 26 inch Motor Power: 7.5 HP Output Capacity: 250 kg/hr Pellet Size: 4-10mm; Phase: Single Product Type: Food Pellet Machine Voltage: 220V-240V With product quality certification or its equivalent With manufacturer's warranty | 1 | 75,000.00 | |
| 16 U | Unit | LABORATORY EQUIPMENT, Feed Pelletizer Machine with Electric Motor Power: 5HP Single Phase Working Load: 80-100 kg/hr Default Disc Mill: 3mm Boundary Dimension: 750 x 280 x 700mm Voltage source: 220V-240V With product quality certification or its equivalent With manufacturer's warranty | 1 | 60,000.00 | |
| 17 U | Unit | LABORATORY EQUIPMENT, Fiber Optic Splicing Machine | 1 | 80,000.00 | |

| | AC adaptor: 100-220Vac input voltage, 60 | | | |
|---------|---------------------------------------------------------------------|---|-----------|--|
| | Hz; 12 Vdc, 5A output voltage | | | |
| | With Lithium Battery: 11.1V, 5.2Ah | | | |
| | Applicable to SM, MM, NZ-DS, EDF, | | | |
| | Pigtail, FTTH dropcable SC/LC/FC | | | |
| | connector | | | |
| | Average Splice loss: 0.02dB(SM), | | | |
| | 0.01dB(MM), 0.04 dB(NZDS), | | | |
| | 0.04dB(EDF) | | | |
| | Return Loss: ≥ to 60dB | | | |
| | Splicing time: 8 seconds | | | |
| | Heating time: 25 seconds | | | |
| | Tension Test: 2.0N | | | |
| | Splicing Program: 50 groups | | | |
| | Operating Conditions: -10 degree celsius to | | | |
| | +50 degree celsius, 0- 95% RH, 0-5000m | | | |
| | (altitude) | | | |
| | LCD Monitor: 5 inches, high resolution | | | |
| | Fiber Image Magnification: X or Y | | | |
| | separately views with 400 times | | | |
| | magnification | | | |
| | Storage Result: 6,000 groups of latest splice results | | | |
| | With product quality certification or its | | | |
| | equivalent | | | |
| | With manufacturer's warranty | | | |
| | LABORATORY EQUIPMENT, FM Transmitter Long Range Broadcast Stereo (4 | | | |
| | units) Transmitter: FM | | | |
| | Frequency range: FM: 87-108MHz | | | |
| | Step frequency: less than or equal to 100Khz | | | |
| 18 Unit | Frequency stability: margin of error ± 10PPM | 1 | 68,000.00 | |
| | Frequency Stabilization Method: PLL | | | |
| | Harmonic Noise: less than or equal to -50dB | | | |
| | Output Impedance: 50 ohms | | | |
| | Rf output power: up to 15W (8 levels adjustable) | | | |

| | | Pre-highlight: 75 microseconds | | | |
|----|------|-----------------------------------------------------------------|---|--------------|--|
| | | Distortion sound: 0.3% | | | |
| | | Bluetooth distance: about 5 meters | | | |
| | | Frequency response: 50Hz~15000Hz | | | |
| | | Split: '30dB | | | |
| | | Frequency adjustment: margin of error ± | | | |
| | | 75KHZ | | | |
| | | Snr: '60 dB | | | |
| | | Antenna Connector Type: TNC | | | |
| | | Working temperature: -10-45 degree celsius | | | |
| | | Transmitter Size: 144x100x59mm | | | |
| | | Transmitter weight: 545 grams | | | |
| | | Antenna: Connection Type: TNC | | | |
| | | Power: 2.15dB | | | |
| | | Impedance: 50 ohms | | | |
| | | Maximum stretch length: 1150 mm. (3.77 Feet) | | | |
| | | Shortest abbreviation length: 210 mm. (0.69 | | | |
| | | Feet) | | | |
| | | Feed Length: 5m(16.4ft) | | | |
| | | Power Supply: | | | |
| | | Input voltage: 100-240V 50/60Hz | | | |
| | | Output Power: DC, 12V 3A | | | |
| | | With product quality certification or its | | | |
| | | equivalent With manufacturer's warranty | | | |
| | | LABORATORY EQUIPMENT, Handheld | | | |
| | | XRF for Soil Analysis and Environmental | | | |
| | Unit | Remediation | | | |
| | | | | | |
| | | Dimensions: (W x H x D) $8.3 \text{ cm} \times 28.9 \text{ cm}$ | | | |
| | | \times 24.2 cm (3.25 in. \times 11.4 in. \times 9.5 in.) | | | |
| 10 | | Weight: 1.70 kg (3.75 lb) with battery, 1.48 | 1 | 1,200,000.00 | |
| 19 | | kg (3.24 lb) without battery | | | |
| | | Excitation Source: -watt X-ray tube with | | | |
| | | application-optimized anode material | | | |
| | | [rhodium (Rh), silver (Ag), or tungsten (W)] | | | |
| | | Detector: M series | | | |
| | | Large-area silicon drift detector | | | |
| | | Large-area sincon urni uciccioi | | | |

| | | Power: Removable 14.4V Lithium-ion battery with hot-swap capability Display: 800 × 480 (WVGA) LCD with capacitive touch screen supporting gesture control With product quality certification or its equivalent With manufacturer's warranty | | | |
|----|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|--|
| 20 | Unit | LABORATORY EQUIPMENT, Heavy duty over locker machine with table 1300-1500 max sewing speed 3/4 thread, 4 color easy threading guide 2-4 thread overlocker LED work light With product quality certification or its equivalent With manufacturer's warranty | 2 | 120,000.00 | |
| 21 | Unit | LABORATORY EQUIPMENT, Lab Mill/husker Capacity: 250 grams paddy sample Capacity/hr: 50 kg/hr Power: 400 W (0.5 hp) single phase Head power: 1,900 RPM Follow Power: 1,000 RPM Size: 720 x 480 x 1400 mm Weight: 49 kg Power source: 220 V, 60 hz With product quality certification or its equivalent With manufacturer's warranty | 1 | 100,000.00 | |
| 22 | Unit | LABORATORY EQUIPMENT, LAN Trainer Set: wired and wireless FEATURES PC to PC communication with IEEE 802.3 Wireless LAN-IEEE 802.11 b Token Bus - IEEE 802.4 Network design using RJ45 connectors Error generation Real time graphical representation of entire transmission & reception | 1 | 290,000.00 | |

User friendly software SPECIFICATIONS

Hardware

PC to PC using RJ-45 Connector

Star topology using RJ45 Connector

Bus topology using RJ45 Connector

Data transmission speed: 10/100 Mbps

4 Nodes

Software

Bus, Ethernet, Wireless Topology

Protocols: Stop N Wait, Go back to N,

Selective repeat

Packet size: 128, 256, 512, 1024, 2048,

4096, 8192,

16384

Inter Packet delay: 1000-5000 ms

Error generation: Acknowledgment lost, bad

packet, auto error generation

Data encryption & decryption

Complete analysis of Network & Protocols

Graphic representation of data on s/w screen

with packet details

Network details indication of computer name, IP address, Port number, status of network, MAC address and OS on computer. Indication of packet serial number, file name, file size, file number, receiver name, Workgroup, receiver IP address, total packets, packet length, time out, protocol, topology, receiver, MAC address, port number, file send start time, file sent completion time, transmission time data rate(Mbps), error.

Power Supply: 220 V margin of error plus

minus 10%,

50 Hz / 60 Hz on request

Power Consumption: 1.8 VA (approx.)

Evolution of dynamic behavior.

| T T | Experiments that can be performed | | | |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|--|
| | Experiments that can be performed | | | |
| | Study & implementation of cable designs in networking | | | |
| | Implementation of PC to PC with IEEE 802.3 | | | |
| | Implementation of PC to PC with IEEE 802.11 b | | | |
| | Implementation of Bus topology with IEEE 802.4 | | | |
| | Study of protocols | | | |
| | Study of flow control | | | |
| | Stop-N-wait | | | |
| | Go back to N Selective repeat With product quality certification or its equivalent With manufacturer's yearsenty | | | |
| | With manufacturer's warranty LABORATORY EQUIPMENT, Moisture | | | |
| 23 | analyzer (multi-crop) Input voltage: 220V-240V/50-60Hz Weighing capacity [Max]: 200g Weighing units: % Trockenmasse g, % Feuchte Maximum humidity: 80% Maximum operating temperature: 40 degrees Celsius Minimum ambient temperature: 5 degrees Celsius Minimum humidity: 5% Readability (moisture): 0.050% Tare range: 200g | 1 | 97,000.00 | |
| 24 Unit | LABORATORY EQUIPMENT, Multiparameter Water Quality Meter Portable Type pH Range -2.000-20.000pH Resolution 0001,0.01,0.1pH Selectable Accuracy: 0.002pH Calibration Points: 1 to 5 points pHBuffer Options USA, NIST, DIN, 2 custom buffers ORP Range margin of error plus minus 1999.9mV Resolution 0.1, 1mV, selectable Accuracy margin of error plus minus 0.2mV Calibration Points: 1 point | 1 | 60,000.00 | |

| | T | I | 1 |
|--|---------------------------------------------------------------------------|---|---|
| | Ion Range: 0.001~19999 (depending on the | | |
| | range of ISE) | | |
| | Resolution: 0.001, 0.01, 0.1, 1 | | |
| | Accuracy margin of error ±0.5% F.S. | | |
| | (monovalent), margin of error plus minus | | |
| | 1% F.S. (divalent) Measurement Units ppm, | | |
| | mg/L, mol/L, mmol/L | | |
| | Calibration Points: 2 to 5 points (0.001, 0.01, | | |
| | 0.1, 1, 10, | | |
| | 100, 1000, 10000) | | |
| | Conductivity Range: 0.01~20.00, 200.0, 2000 micro S/cm, 20.00, 200.0mS/cm | | |
| | Resolution: 0001, 0.01, 0.1, 1 | | |
| | Accuracy margin of error: ± 0.5% F.S. | | |
| | Calibration Points: 1 to 5 points | | |
| | Calibration Solutions: 10microS/cm, 84microS/cm, | | |
| | 1413microS/cm, 12.88mS/cm, 111.8mS/cm | | |
| | Temperature Coefficient Linear (0.0- | | |
| | 10.0%/degree celsius) pure water | | |
| | Reference Temperature 20/25 degree celsius | | |
| | Cell Constant K=0.1, 1, 10 or custom | | |
| | TDS Range: 0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt | | |
| | Resolution 001,0.1,1 | | |
| | Accuracy margin of error plus minus 1% F.S. | | |
| | TDS Factor 0.1~1.0 (default 0.5) | | |
| | Salinity Range 0.00~42.00psu, 0.00~80.00ppt | | |
| | Resolution 0.01 | | |
| | Accuracy margin of error: ± 1% F.S. | | |
| | Resistivity Range 0.00~20.00M? Resolution | | |
| | 0.01 Accuracy margin of error ± 1% F.S. | | |
| | DO Range 0.00~20.00mg/L, 0.0~200.0% saturation | | |
| | Resolution 001mg/L,0.1% | | |
| | Accuracy margin of error ± 0.2mg/L, | | |
| | margin of error plus minus 2.0% | | |
| | ı | | |

| | O III di Di di O | l | I | |
|---------|---------------------------------------------------------------------------|---|------------|--|
| | Calibration Points 1 or 2 points | | | |
| | With product quality certification or its | | | |
| | equivalent With manufacturer's warranty | | | |
| | With manufacturer's warranty | | | |
| | LABORATORY EQUIPMENT, ONE SET (ONE BASE AND ONE ROVER) | | | |
| | · · · · · · · · · · · · · · · · · · · | | | |
| | MULTI- FREQUENCY GNSS RECEIVER | | | |
| | FOR | | | |
| | STATIC, RTK AND PPK APPLICATION | | | |
| | | | | |
| | APPLICATION: With static, post Processed | | | |
| | and real time kinematic. Display: NO | | | |
| | DIGITAL DISPLAY | | | |
| | Satellite Tracking: GPS, GLONASS, | | | |
| | BEIDOU AND | | | |
| | GALILEO, QZSS, SBAS | | | |
| | ACCURACY: MINIMUM | | | |
| | High-Precision Static (RMS) Horizontal | | | |
| | 2.5mm+0.1ppm | | | |
| | Vertical 3.5mm+0.4ppm Static & Fast Static | | | |
| | (RMS) | | | |
| | Horizontal 2.5 mm + 0.5 ppm | | | |
| | Vertical 5 mm + 0.5 ppm Real Time | | | |
| 25 Unit | Kinematic (RMS) | 1 | 590,000.00 | |
| | Horizontal 8 mm + 1 ppm | | | |
| | Vertical 15 mm + 1 ppm | | | |
| | 1 | | | |
| | Post Processed Kinematic (RMS) Special feature: REALLY FIX UNDER CANOPIES | | | |
| | (must be tested in actual) FREE INTERNET | | | |
| | RTK SUBSCRIPTION | | | |
| | (NTRIP) | | | |
| | Battery operation must be 16hours with two | | | |
| | batteries with led light indicator in battery | | | |
| | for charge status must be NTC type approved | | | |
| | must be a direct distributor (exclusive) | | | |
| | software 1. can be installed in android | | | |
| | phones, tablet or any android gadgets | | | |
| | 2. free and downloadable at anytime | | | |
| | controller software must have data quality | | | |
| | control like configuring only the allowable | | | |
| | tolerable error. | | | |
| | With product quality certification or its | | | |
| | equivalent | | | |
| | With manufacturer's warranty | | | |

| | | LABORAMORY FOLLOWS | | | |
|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|--|
| | | LABORATORY EQUIPMENT, Petrol Engine, Electronic | | | |
| 26 | Unit | Fuel Injection (EFI) System Training Equipment 4 cylinders engine, DOHC, 1.3 CC minimum piston displacement, with OBD 2 diagnostic socket, with functional dashboard instrument panel, real and operable engine fuel injection system to illustrate the structure & working process, equipment with intelligent fault setting and appraisal system, include fault setting, troubleshooting & assessment functions, etc., it uses ordinary 220 ACV power which will transformed into 12 DCV as power source, has metal base frame, paint coated, with table top attached to the frame, and metal wheel with lock on base of frame for mobility. with manufacturer warranty on parts and labor, with manual of operation (english version) and include training on the use of equipment With product quality certification or its equivalent With manufacturer's warranty | 1 | 170,000.00 | |
| | | LABORATORY EQUIPMENT, All-in-One | | | |
| | | Fitness Testing Machine | | | |
| | | System Assessments include: | | | |
| 27 | Unit | Biometric Assessments: Blood Pressure, Body Weight, Girth Measurements, Blood Chemistries, Hip-to-Waist Ratio/Body Mass Index, Lung Function Spirometry. Body Composition Assessments: 2, 3 and 7 skinfold sites, Circumference Body Fat Calculation and Bio-Impedance Calculation. Flexibility Protocols: Sit & Reach Test, | 1 | 400,000.00 | |
| | | Trunk and Shoulder Rotation. | | | |
| | | Cardiovascular Assessments: Bike Ergometer Tests, Treadmill Tests, Adult Field Tests Strength Protocols: Biceps Strength Test, Pushups, Sit-ups, 1- Rep Max Protocols. | | | |
| | | Features System | | | |

| <u> </u> | |
|----------|------------------------------------------------------------|
| | Computer Interface Unit Integrated, Medical Grade |
| | Cart |
| | With appropriate/compatible computer hardware and software |
| | With all-in-one inkjet Color Printer |
| | Interactive Fitness Testing Equipment Skinfold Caliper |
| | Wireless Polar Heart Rate System Isometric Strength |
| | System Modified Sit and Reach Station Body Weight |
| | Platform |
| | Fitness Assessment and Exercise Planning Software |
| | (including President?s Challenge and other |
| | assessment protocols) |
| | Training Videos & Tutorials Reports |
| | Student Personal Profile (up to 20 pages) |
| | Graphical and Data Summary Trend |
| | (compares 6 assessments) Class Lists and |
| | Database Query |
| | Parent Mail Merge Letters, Labels and Envelopes |
| | Available Options |
| | Testing Equipment |
| | Treadmill, System Interface and Software |
| | Autobike, Interactive Testing Bike |
| | Resting Blood Pressure and Heart Rate System Lange |
| | Skinfold Caliper Upgrade |
| | Bioimpedance Scale Software |
| | Health Risk Appraisal |
| | (includes CDC Youth Risk Behavior Surveys) Meal |
| | Planner |
| | Group Reporting Template Builder System |
| | Network Ready (network hardware, software) |
| | With product quality certification or its equivalent |

| | | With manufacturer's warranty | | | |
|----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|--|
| 28 | Unit | LABORATORY EQUIPMENT, Portable Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor LABORATORY EQUIPMENT, Sheet | 1 | 200,000.00 | |
| 29 | Unit | LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)-verify Max thickness: 1.5MM Bending Angle: 0- 120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty | 1 | 300,000.00 | |
| 30 | Unit | LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table Lock stitcher Direct electronic feed control Minimum lubrication: Semi-Dry For medium to heavy materials 5,000-4000 stitches per minute With product quality certification or its equivalent With manufacturer's warranty | 2 | 100,000.00 | |
| 31 | Unit | LABORATORY EQUIPMENT, Water Quality Monitoring Kit Can test pH (range: 3 - 10.5), nitrate-nitrogen (0-15 ppm), phosphate (0.2 ppm), dissolved oxygen (0-10 ppm), total alkalinity (0-200 ppm), turbidity (0-200 JTU), and temperature (0-5 to 45 degrees centigrade). | 2 | 100,000.00 | |
| 32 | Unit | MONITOR, Patient Monitor Measured parameter: ECG, CO2, NIBP, IBP, SpO2 High-Definition Capacitive Touch Screen weight.: 4.8 kg, size: 310 x289 x169mm USB interface support Multi display mode; Built in high capacity battery up to 2 hours of continuous work; VGA output for continuous display | 1 | 100,000.00 | |

Display screen: Capacitive screen, support multi-touch operation. 12.1-inch, 1280 x 800 pixels; display channel: Up to 10 waveform channels ECG; Led mode, 5 leads SPO2: measuring range 0-100%; Resolution: 1%; Accuracy- 70%- 100%; Pulse rate: 20-250BPM NIBP, Method: Oscillatory; Measure mode: Manual, AUto STAT; UNit: mmHGg, kPa; Auto measure time: Adjustable 10-Measurement range: 270mmHg ECG: Lead mode: 3-lead or 5-lead Lead selection: I, II, III, avR, avL, avF, V Heart rate range: Adult: 15-300bpm, Pediatric/Neonatal: 15-300bpm ECG waveform: 2 channels Accuracy: 1 bpm or 1% S-T segment detection Measurement range:-0.2mv~2.0mv Alarm: Yes, audible and visual alarm, alarm events review PO2: Measurement range: 0-100% Accuracy: 70-100%, 2% 0-69%, unspecified Pulse rate: 20-254bpm; Range: Accuracy: 3bpm Respiration: Method: RA-LL impedance Adult:0-120rpm; Range: pediatric/neonatal:0-150rpm; Apnea alarm: Yes Temperature: Range: 0-50 EtCO2; Measurement Mode: Side-stream or

Measurement range: EtCO2: 0-99mmHg;

mainstream

| | | Accuracy: CO2 concentration | | |
|----|--------|----------------------------------------------------------------------------------------------------------------------------------------------|---|------------|
| | | Apnea alarm: YES | | |
| | | With accessories; 2 years warranty and after | | |
| | | sales service | | |
| | | With product quality certification or its | | |
| | | equivalent | | |
| | | With manufacturer's warranty | | |
| | | MULTIMETER, Water Quality Multi-meter | | |
| | | Parameters Measured: Dissolved Oxygen | | |
| | | (%), Dissolved Oxygen (mg/L), Temperature, Turbidity, | | |
| | | Conductivity, Specific Conductance, Resistivity, | | |
| 33 | Unit | Salinity, Water Density, pH, ORP, Ammonium, Nitrate, | 1 | 200,000.00 |
| | | Chloride, Total Dissolved Solids (TDS), Total | | |
| | | Suspended Solids (TSS), Depth, Barometer With product quality certification or its equivalent With manufacturer's warranty | | |
| | | TABLE, Teacher Demo Table with Sink and | | |
| | | Overhead | | |
| | | Mirror | | |
| | | Demonstration Mirror - Mirror bottom is 29 | | |
| | | in. above tabletop. | | |
| | | Cooktop - Ceramic glass with two burners | | |
| | | (1,200 watts each), 15-ft extension cord, and | | |
| 24 | Unit | | 1 | 80,000.00 |
| 34 | | a 120V GFCI duplex receptacle with 20-ft. | 1 | 80,000.00 |
| | | extension cord. 120V, 20A. | | |
| | | Built-in Sink - Stainless steel with hand- pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. | | |
| | | With product quality certification or its | | |
| | | equivalent | | |
| | | With manufacturer's warranty | | |
| | | TANK, Argon tank with argon gas | | |
| 35 | 5 Unit | Cylinder Type Name: T 330 | 1 | 325,00 |
| | | Tank Gas Capacity in Cubic Feet: 335 | | 0.00 |
| | | Diameter: 9.2 inches | | |

| Height: 55 inches | | |
|-------------------------------------------|--|--|
| Weight: 170 pounds | | |
| With product quality certification or its | | |
| equivalent | | |
| With manufacturer's warranty | | |

[Use this form for Framework Agreement:]

Framework Agreement List

Limited to repeatedly required goods and services that are identified to be necessary and desirable, but, by its nature, use or characteristic, the quantity and/ or exact time of need cannot be accurately pre-determined and are not advisable to be carried in stock.

Prepared by the End-User, attached to the APP and submitted to the BAC for the approval of the HOPE.

| FRAMEWORK AGREEMENT LIST (AGENCY) | | | | | |
|----------------------------------------------------------|------------------------------------|------------------------------|------------------------|--|--|
| Item / Service Type and nature of each item/service | Cost per item or service | Maximum Quantity | Total Cost per Item | | |
| | | | | | |
| TOTAL (Approved Budget for the Contract) | | | | | |
| Expected delivery timeframe after receipt of a Call-Off. | Within [no. of days] ca | llendar days upon issuance o | of Call-off . | | |
| Remarks | Indicate here any other necessary. | r appropriate information as | may be | | |

| SIGNATURE OVER PRINTED NAME | POSITION | DEPARTMENT/DIVISION |
|--------------------------------|----------|---------------------|

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words "or at least equivalent." References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

Technical Specifications

| Item | Specification | Statement of Compliance |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | [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 crossreferenced 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.] |
| | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general- | |
| 1. | purpose storage to contain putrid organic odors as well as fumes | |
| | With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty | |

| | CALIBRATION EQUIPMENT, Inverted | |
|----|---------------------------------------------------------------------|--|
| | Microscope | |
| | Infinite Optical System, Extra wide field eyepiece | |
| | EW10X/22 Viewing Head: Trinocular head inclined | |
| | at | |
| | 30degrees, interpupillary distance 48-75mm | |
| | Objective LWD infinite plan objective 4X/0.1,WD | |
| | 17.3mm ; 40X/0.6,WD 2.1mm | |
| 2. | Infinite plan phase objective PH10X/0.25,WD 10mm, | |
| | PH20X/0.4,WD 5.1mm | |
| | Quintuple nosepiece | |
| | LWD condenser NA 0.3,LWD 72mm(without condenser | |
| | 150mm) 10X-20X,40X phase annulus plate(fixed) | |
| | Illumination: Halogen lamp 6V/30W | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty CALIBRATION EQUIPMENT, NIR | |
| | spectrometer analyzer portable spectrometer | |
| | Wavelength Range: 350-950 Stray light: less than or | |
| | equal to 0.3% | |
| | Spectral bandwidth (FWHM): 2nm CCT range: 1,000K~ | |
| 3. | 100,000K | |
| 3. | Frequency range: 25-1KHz | |
| | Chromaticity coordinate accuracy: margin of error | |
| | plus minus 0.0025 Application: Medical Beauty | |
| | Light source | |
| | Frequency sampling rate: 1-10KHz | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty CALIBRATION EQUIPMENT, Portable Biogas | |
| | Analyzer | |
| | Gases detected CH4, CO2, H2S, O2 Measuring | |
| | range | |
| 4 | CH4: (0-100)%vol CO2: (0-100)%vol | |
| 4. | H2S: (0~1000) ppm O2: (0~30.0)%vol | |
| | Resolution ratio CH4: 1%vol, CO2: 1%vol, H2S: | |
| | 1ppm, | |
| | O2: 0.1%vol | |
| | Sensor Infrared sensor and electrochemical sensor | |

| | T | |
|----|-----------------------------------------------------------------------------------|--|
| | Sensor lifetime greater than or equal to 5 years (CH4, | |
| | CO2) | |
| | greater than or equal to 2years (H2S, O2) | |
| | Response time CH4: less than or equal to 45S (T90) | |
| | CO2: less than or equal to 45s (T90) | |
| | H2S:less than or equal to 45s (T90) O2: less than or | |
| | equal to45s (T90) | |
| | Alarms Audiblebuzzer with greater than or equal | |
| | to 80dB audible Visible-flashing red LED, greater | |
| | than or equal to 20m visible Alarm point Fully | |
| | adjustable Data logging Continuous Data logging | |
| | (1900 events at configurable 0.1-10 minutes | |
| | intervals) | |
| | Continuous working time greater than or equal to | |
| | 13hours Display Liquid Crystal Display (LCD) | |
| | Battery model PL123450, 3.7V/1500mA Charging | |
| | time 4-5 hours | |
| | Dust and water resistance IP65 | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty CALIBRATION EQUIPMENT, Water Activity | |
| | Meters Measurement range: 0.1 to: 0.98 Aw (5- 45) | |
| | degree Celsius) Measuring principle: Electrolytic | |
| | (surface IR and NTC) Measurement accuracy: AW | |
| | margin of error plus and minus 0.01 (margin of error | |
| | plus and minus 15 degrees celsius) precision: margin | |
| | | |
| | of error plus and minus 0.003aw within the | |
| 5. | adjustment range (margin of error plus and minus 0.1 | |
| | degree celsius) Resolution: 0.001aw (0.1 degree | |
| | celsius) | |
| | Accuracy: margin of error plus and minus 0.010aw | |
| | within calibration range (margin of error plus and | |
| | minus | |
| | 0.15 degree celsius) | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Analyzer | |
| 6. | Glass-less infrared heating increases efficiency for | |
| 0. | faster results | |
| | | |

| | Flexible performance: Provides accurate results at | |
|----|-----------------------------------------------------------------------------------|--|
| | either 0.1% or 10 mg readability, and is ideal for | |
| | textiles, wastewater, ceramics, food and other | |
| | applications that require IR heating elements and | |
| | measurements to 0.1% | |
| | Simple to operate: Set up and operation is extremely | |
| | easy, just press and hold the temperature or time | |
| | buttons to set drying parameters, add your sample | |
| | and begin the test process. This makes the analyzer | |
| | | |
| | ideal for routine tasks performed by operators of all | |
| | skill levels | |
| | Compact, easy-to-clean design: The compact | |
| | footprint 6.0-7.0 x 5- 6 x 11-12" (15-18 x 12-15x 25 | |
| | cm-30 cm) of the analyzer is designed to take up less | |
| | space and the easy-to-clean heating chamber is ideal | |
| | for frequent use and inexpensive maintenance | |
| | User-friendly touch-button design for easy operation | |
| | Compact design suits any workspace | |
| | Three shut off criteria (manual, timed or auto) | |
| | One standard heating profile | |
| | 40 to 200 degree celsius heating range (4-8 degree | |
| | celsius increments) With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Antibiotic Disc | |
| | Dispenser and Zone Reader | |
| | Diameter Range: 0 to 80.0 mm | |
| | Resolution: 0.1 mm | |
| 7. | Illumination: Lamp/LED 12 V/ DC | |
| | Display: 4 digit seven segment LED display | |
| | Power Supply: 230V +10% AC, 60Hz | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Archimedes Principle | |
| 0 | Apparatus Set SDFDEWER | |
| 8. | This set includes | |
| | 1 Density set | |
| | 1 Overflow can 1 large rod base | |

| | 1 stainless Steel rod, 45 cm 1 Braided physics string | |
|----|------------------------------------------------------------------------|--|
| | 1 Ohaus Triple-beam balance (with Tare) 1 stainless | |
| | caliper | |
| | 1 1000 ml beaker | |
| | 1 100 ml beaker | |
| | 1 50 ml graduated cylinder | |
| | 1 Archimedes Principle Experiment | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty LABORATORY EQUIPMENT, Arduino Artificial | |
| | Intelligence Suite (Dobot Basic AI Kit) DfRduino | |
| | Mega2560 V3 Specs: | |
| | Microcontroller: ATmega2560 | |
| | Operating Voltage 5V | |
| | Input Voltage (recommended): 7V-12V | |
| | Input Voltage (range): 6V-20V | |
| | Digital I/O Pins: 54 (of which 15 provide PWM | |
| | output) | |
| | Analog Input Pins: 16 I/O | |
| | DC Current per I/O Pin: 50 mA | |
| | DC Current for 3.3V Pin: 50 mA | |
| | Flash Memory: 256 KB of which 4 KB used by the | |
| | bootloader | |
| | SRAM: 8 KB | |
| 9. | 9. EEPROM: 4 KB Clock Speed: 16MHz | |
| | Pixy CMUcam5 Specs: | |
| | Processor: NXP LPC330, 204MHz, dual-core | |
| | Image Sensor: Omni vision OV9715, 1/4", | |
| | 1280x800 Image Sensor: 75 degrees horizontal, 47 | |
| | degrees vertical | |
| | Lens Type: Standard M12 (several different types | |
| | available) | |
| | Power Consumption: 140 mA | |
| | Power Input: USB Input (5V) or unregulated input | |
| | (6V to 10V) | |
| | RAM: 264K bytes | |
| | Flash: 1M bytes | |
| | Available Data Outputs: UART serial, SPI, I2C, USB, | |
| | Digital, Analog | |
| L | | |

| | Size: 2.1" × 1.75" × 1.4" | |
|-----|------------------------------------------------------------------------------------------|--|
| | Keycap Color: Red, Green, Blue Supply Voltage: | |
| | 3.3V - | |
| | 5V | |
| | | |
| | Data Type Digital Size: $22mm \times 30mm$ | |
| | LED Madala Carra | |
| | LED Module Specs: | |
| | Color: Red, Green, Blue | |
| | Brightness: 2500mcd to 3300mcd | |
| | Highlight Output Voltage: 3.3V - 5V Wavelength: 520nm - 530nm | |
| | Angle: 80° - 110° Size $30 \text{mm} \times 20 \text{mm}$ Weight: $5g$ | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Brake | |
| | dynamometer EQUIT WENT, Brake | |
| | Analog/Digital | |
| 10 | Max Power range: 10-20 hp | |
| 10. | Max RPM: 2000 rpm | |
| | Max Torque: 400 Nm | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty LABORATORY FOLURATION Conservation of | |
| | LABORATORY EQUIPMENT, Conservation of Momentum Apparatus (complete set) | |
| | This set includes: | |
| | 2 cart mass | |
| | 2 small cart | |
| 11. | 2 Dynamics Track end stop (Pair) | |
| | 2 Dynamics Track feet | |
| | 1 Aluminum Dynamics Track | |
| | 1 small cart rod stand adapter | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Conventional Milling Machine | |
| | Drilling Capacity: 45mm diameter | |
| | Face milling Capacity: 80mm diameter | |
| 12. | End milling Capacity: 32mm diameter | |
| | Max. Dist. from Spindle nose to table 450mm | |
| | Min. dist. From spindle axis to column 260mm | |
| | Spindle travel: 130 mm | |

| | Spindle speed @ 60Hz 95-1500RPM |
|-----|-------------------------------------------------------------------------------------------------------------------------------------|
| | Table size: 800x240mm |
| | Motor power: 1.5 KW (2HP) |
| | Std. Accessories: |
| | 1 set of collet, 4 milling vise, clamping kit, 10 pc end |
| | mill cutter |
| | Features: Gear Driven, Head Swivels 90° vertically, |
| | micro feed precision. With DRO (Digital Read Out) With product quality certification or its equivalent With manufacturer's warranty |
| | LABORATORY EQUIPMENT, Diesel engine with |
| | common rail intercooler |
| | Educational Trainer 4 stroke engine; 4 in-line |
| | cylinders; 4 valves per cylinder |
| | Displacement: 2500/2800 cu. Cm |
| | Power: 150-170 hp at 4000 RPM |
| 13. | Twin overhead camshaft (DOHC) with timing belt |
| | Vibration-damping balancing shafts |
| | Common rail-type direct injection with electro- injectors |
| | Turbo-supercharger with air-air intercooler |
| | Alternator-oil filter-oil pump With product quality certification or its equivalent With manufacturer's warranty |
| | LABORATORY EQUIPMENT, DIGITAL |
| | WATER VELOCITY METER |
| | Digital display in ft/sec or m/sec; Records 30 data |
| | sets for later analysis; Rain-proof digital computer; |
| 1 4 | Highly accurate easy flow monitoring; Debris |
| 14. | shedding turbo-prop; Lightweight, rugged, and |
| | reliable |
| | Telescoping handle with staff gauge; Padded carrying case for easy storage CE Certified With manufacturer's warranty |
| | LABORATORY EQUIPMENT, Feed Pelletizer |
| | Granulation Machine |
| 15. | Spec: Automation Grande: Automatic |
| | Brand: Generic |
| | Die and Roller Size: 6 inches |
| | DIE AHU KUHEI SIZE: O HICHES |

| | Dimension: 38 x 12 x 26 inch | |
|-----|-----------------------------------------------------------------------------------|--|
| | Motor Power: 7.5 HP | |
| | | |
| | Output Capacity: 250 kg/hr Pellet Size: 4-10mm; | |
| | , | |
| | Phase: Single | |
| | Product Type: Food Pellet Machine | |
| | Voltage: 220V-240V With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Feed Pelletizer | |
| | Machine with Electric Motor | |
| | Power: 5HP Single Phase | |
| | Working Load: 80-100 kg/hr | |
| 16. | Default Disc Mill: 3mm | |
| | Boundary Dimension: 750 x 280 x 700mm | |
| | Voltage source: 220V-240V | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Fiber Optic | |
| | Splicing Machine | |
| | AC adaptor: 100-220Vac input voltage, 60 Hz; 12 | |
| | Vdc, 5A output voltage | |
| | With Lithium Battery: 11.1V, 5.2Ah | |
| | Applicable to SM, MM, NZ-DS, EDF, Pigtail, FTTH | |
| | dropcable SC/LC/FC connector | |
| | Average Splice loss: 0.02dB(SM), 0.01dB(MM), | |
| | 0.04dB(NZDS), 0.04dB(EDF) | |
| | | |
| | Return Loss: ≥ to 60dB | |
| 17. | Splicing time: 8 seconds | |
| | Heating time: 25 seconds Tension Test: 2.0N | |
| | | |
| | Splicing Program: 50 groups Operating Conditions: 10 degree coloins to 150 | |
| | Operating Conditions: -10 degree celsius to +50 | |
| | degree celsius, 0- 95% RH, 0-5000m (altitude) | |
| | LCD Monitor: 5 inches, high resolution | |
| | Fiber Image Magnification: X or Y separately views | |
| | with 400 times magnification | |
| | Storage Result: 6,000 groups of latest splice results | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty | |

| | I ADODATODY POLIDADATE TAKE | |
|-----|-----------------------------------------------------------------------------------|--|
| | LABORATORY EQUIPMENT, FM Transmitter Long Range Broadcast Stereo (4 units) | |
| | Transmitter: FM | |
| | Frequency range: FM: 87-108MHz | |
| | Step frequency: less than or equal to 100Khz | |
| | Frequency stability: margin of error ± 10PPM | |
| | Frequency Stabilization Method: PLL | |
| | Harmonic Noise: less than or equal to -50dB | |
| | Output Impedance: 50 ohms | |
| | Rf output power: up to 15W (8 levels adjustable) | |
| | Pre-highlight: 75 microseconds | |
| | Distortion sound: 0.3% | |
| | Bluetooth distance: about 5 meters | |
| | Frequency response: 50Hz~15000Hz | |
| | Split: '30dB | |
| | Frequency adjustment: margin of error ± 75KHZ | |
| 18. | Snr: '60 dB | |
| | Antenna Connector Type: TNC | |
| | Working temperature: -10-45 degree celsius | |
| | Transmitter Size: 144x100x59mm | |
| | Transmitter weight: 545 grams | |
| | Antenna: Connection Type: TNC | |
| | Power: 2.15dB | |
| | Impedance: 50 ohms | |
| | Maximum stretch length: 1150 mm. (3.77 Feet) | |
| | Shortest abbreviation length: 210 mm. (0.69 Feet) | |
| | Feed Length: 5m(16.4ft) | |
| | | |
| | Power Supply: | |
| | Input voltage: 100-240V 50/60Hz | |
| | Output Power: DC, 12V 3A | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Handheld XRF for | |
| | Soil Analysis and Environmental Remediation | |
| | | |
| 19. | Dimensions: (W x H x D) 8.3 cm \times 28.9 cm \times 24.2 | |
| 19. | cm (3.25 in. \times 11.4 in. \times 9.5 in.) | |
| | Weight: 1.70 kg (3.75 lb) with battery, 1.48 kg (3.24 | |
| | lb) without battery | |
| | 10) without battery | |

| | Excitation Source: -watt X-ray tube with | |
|-----|---------------------------------------------------------------------------------------|--|
| | application-optimized anode material [rhodium | |
| | (Rh), silver (Ag), or tungsten (W)] | |
| | Detector: M series | |
| | Large-area silicon drift detector | |
| | Power: Removable 14.4V Lithium-ion battery with | |
| | hot-swap capability | |
| | Display: 800 × 480 (WVGA) LCD with capacitive touch screen supporting gesture control | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Heavy duty over | |
| | locker machine with table | |
| 20 | 1300-1500 max sewing speed 3/4 thread, 4 color | |
| 20. | easy threading guide 2-4 thread overlocker | |
| | LED work light | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Lab Mill/husker | |
| | Capacity: 250 grams paddy sample Capacity/hr: 50 | |
| | kg/hr | |
| | Power: 400 W (0.5 hp) single phase Head power: | |
| 21 | 1,900 RPM | |
| 21. | Follow Power: 1,000 RPM Size: 720 x 480 x 1400 mm | |
| | Weight: 49 kg | |
| | Power source: 220 V, 60 hz | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, LAN Trainer Set: | |
| | wired and wireless | |
| | FEATURES | |
| | PC to PC communication with IEEE 802.3 | |
| | Wireless LAN-IEEE 802.11 b | |
| 22. | Token Bus - IEEE 802.4 | |
| | Network design using RJ45 connectors | |
| | Error generation | |
| | Real time graphical representation of entire | |
| | transmission & reception | |
| | User friendly software SPECIFICATIONS | |
| | Hardware | |

PC to PC using RJ-45 Connector

Star topology using RJ45 Connector

Bus topology using RJ45 Connector

Data transmission speed: 10/100 Mbps

4 Nodes

Software

Bus, Ethernet, Wireless Topology

Protocols: Stop N Wait, Go back to N, Selective

repeat

Packet size: 128, 256, 512, 1024, 2048, 4096, 8192,

16384

Inter Packet delay: 1000-5000 ms

Error generation: Acknowledgment lost, bad packet,

auto error generation

Data encryption & decryption

Complete analysis of Network & Protocols

Graphic representation of data on s/w screen with packet details

Network details indication of computer name, IP address, Port number, status of network, MAC

address and OS on computer.

Indication of packet serial number, file name, file size, file number, receiver name, Workgroup, receiver IP address, total packets, packet length, time out, protocol, topology, receiver, MAC address, port number, file send start time, file sent completion time, transmission time data rate(Mbps), error.

Power Supply: 220 V margin of error plus minus 10%,

50 Hz / 60 Hz on request

Power Consumption: 1.8 VA (approx.) Evolution of dynamic behavior.

Experiments that can be performed

Study & implementation of cable designs in networking

Implementation of PC to PC with IEEE 802.3

Implementation of PC to PC with IEEE 802.11 b

Implementation of Bus topology with IEEE 802.4

Study of protocols

| | Charles of Classes and and | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Study of flow control | |
| | Stop-N-wait | |
| | Go back to N Selective repeat | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty LABORATORY EQUIPMENT, Moisture analyzer | |
| | (multi-crop) | |
| | Input voltage: 220V-240V/50-60Hz | |
| | Weighing capacity [Max]: 200g | |
| | Weighing units: % Trockenmasse g, % Feuchte | |
| 23. | Maximum humidity: 80% | |
| 23. | Maximum operating temperature: 40 degrees | |
| | Celsius | |
| | Minimum ambient temperature: 5 degrees Celsius | |
| | Minimum humidity: 5% Readability (moisture): 0.050% | |
| | Tare range: 200g | |
| | LABORATORY EQUIPMENT, Multiparameter | |
| | Water Quality Meter | |
| | Portable Type pH Range -2.000-20.000pH | |
| | Resolution 0001,0.01,0.1pH | |
| | Selectable Accuracy: 0.002pH | |
| | Calibration Points: 1 to 5 points | |
| | pHBuffer Options USA, NIST, DIN, 2 custom | |
| | | |
| | buffers ORP Range margin of error plus minus | |
| | 1999.9mV Resolution 0.1, 1mV, selectable | |
| | Accuracy margin of error plus minus 0.2mV | |
| | Calibration Points: 1 point | |
| | Ion Range: 0.001~19999 (depending on the range of | |
| 24. | ISE) | |
| | Resolution: 0.001, 0.01, 0.1, 1 | |
| | Accuracy margin of error ±0.5% F.S. | |
| | (monovalent), margin of error plus minus 1% F.S. | |
| | | |
| | | |
| | | |
| | 10, | |
| | 100, 1000, 10000) | |
| | Conductivity Range: 0.01~20.00, 200.0, 2000 micro | |
| | S/cm, 20.00, 200.0mS/cm | |
| | Resolution: 0001, 0.01, 0.1, 1 | |
| | Accuracy margin of error: ± 0.5% F.S. | |
| | (monovalent), margin of error plus minus 1% F.S. (divalent) Measurement Units ppm, mg/L, mol/L, mmol/L Calibration Points: 2 to 5 points (0.001, 0.01, 0.1, 1, 10, 100, 1000, 10000) Conductivity Range: 0.01~20.00, 200.0, 2000 micro S/cm, 20.00, 200.0mS/cm Resolution: 0001, 0.01, 0.1, 1 | |

| | Calibration Points: 1 to 5 points | |
|-----|--------------------------------------------------------|--|
| | Calibration Solutions: 10microS/cm, 84microS/cm, | |
| | 1413microS/cm, 12.88mS/cm, 111.8mS/cm | |
| | Temperature Coefficient Linear (0.0-10.0%/degree | |
| | celsius) pure water | |
| | Reference Temperature 20/25 degree celsius | |
| | Cell Constant K=0.1, 1, 10 or custom | |
| | TDS Range: 0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt | |
| | Resolution 001,0.1,1 | |
| | Accuracy margin of error plus minus 1% F.S. | |
| | TDS Factor 0.1~1.0 (default 0.5) | |
| | Salinity Range 0.00~42.00psu, 0.00~80.00ppt | |
| | Resolution 0.01 | |
| | Accuracy margin of error: ± 1% F.S. | |
| | Resistivity Range 0.00~20.00M? Resolution 0.01 | |
| | Accuracy margin of error ± 1% F.S. | |
| | DO Range 0.00~20.00mg/L, 0.0~200.0% saturation | |
| | Resolution 001mg/L,0.1% | |
| | Accuracy margin of error ± 0.2mg/L, margin of | |
| | error plus minus 2.0% | |
| | Calibration Points 1 or 2 points | |
| | With product quality certification or its equivalent | |
| | With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, ONE SET (ONE BASE AND ONE ROVER) | |
| | MULTI- FREQUENCY GNSS RECEIVER FOR | |
| | STATIC, RTK AND PPK APPLICATION | |
| | | |
| | APPLICATION: With static, post Processed and | |
| | real time kinematic. Display: NO DIGITAL | |
| | DISPLAY Satellite Tracking: GPS, GLONASS, BEIDOU | |
| 25. | AND | |
| | GALILEO, QZSS, SBAS | |
| | ACCURACY: MINIMUM | |
| | High-Precision Static (RMS) Horizontal | |
| | 2.5mm+0.1ppm | |
| | Vertical 3.5mm+0.4ppm Static & Fast Static (RMS) | |
| | Horizontal 2.5 mm + 0.5 ppm | |
| | Vertical 5 mm + 0.5 ppm Real Time Kinematic (RMS) | |

| | Horizontal 8 mm + 1 ppm | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | Vertical 15 mm + 1 ppm | |
| | Post Processed Kinematic (RMS) Special feature: REALLY FIX UNDER CANOPIES (must be tested in actual) FREE INTERNET RTK SUBSCRIPTION (NTRIP) | |
| | Battery operation must be 16hours with two batteries with led light indicator in battery for charge status must be NTC type approved must be a direct distributor (exclusive) software 1. can be installed in android phones, tablet or any android gadgets 2. free and downloadable at anytime controller software must have data quality control like configuring only the allowable tolerable error. With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Petrol Engine, Electronic | |
| 26. | Fuel Injection (EFI) System Training Equipment 4 cylinders engine, DOHC, 1.3 CC minimum piston displacement, with OBD 2 diagnostic socket, with functional dashboard instrument panel, real and operable engine fuel injection system to illustrate the structure & working process, equipment with intelligent fault setting and appraisal system, include fault setting, troubleshooting & assessment functions, etc., it uses ordinary 220 ACV power which will transformed into 12 DCV as power source, has metal base frame, paint coated, with table top attached to the frame, and metal wheel with lock on base of frame for mobility. with manufacturer warranty on parts and labor, with manual of operation (english version) and include training on the use of equipment With product quality certification or its equivalent | |
| | With manufacturer's warranty LABORATORY EQUIPMENT, All-in-One Fitness | |
| | Testing Machine | |
| 27. | System Assessments include: | |
| | Biometric Assessments: Blood Pressure, Body Weight, Girth Measurements, Blood Chemistries, Hip-to-Waist Ratio/Body Mass Index, Lung Function Spirometry. Body Composition Assessments: 2, 3 and 7 skinfold sites, Circumference Body Fat Calculation and Bio- | |
| | * | |

Flexibility Protocols: Sit & Reach Test, Trunk and

Shoulder Rotation.

Cardiovascular Assessments: Bike Ergometer Tests,

Treadmill Tests, Adult Field Tests

Strength Protocols: Biceps Strength Test, Pushups,

Sit-ups, 1- Rep Max Protocols.

Features System

Computer Interface Unit Integrated, Medical Grade

Cart

With appropriate/compatible computer hardware and software

With all-in-one inkjet Color Printer

Interactive Fitness Testing Equipment Skinfold Caliper

Wireless Polar Heart Rate System Isometric Strength System Modified Sit and Reach Station Body Weight

Platform

Fitness Assessment and Exercise Planning Software (including President?s Challenge and other assessment protocols)

Training Videos & Tutorials Reports

Student Personal Profile (up to 20 pages) Graphical and Data Summary Trend (compares 6 assessments)

Class Lists and Database Query

Parent Mail Merge Letters, Labels and Envelopes

Available Options

Testing Equipment

Treadmill, System Interface and Software Autobike,

Interactive Testing Bike

Resting Blood Pressure and Heart Rate System Lange

Skinfold Caliper Upgrade

Bioimpedance Scale Software

Health Risk Appraisal

(includes CDC Youth Risk Behavior Surveys) Meal

Planner

Group Reporting Template Builder System

Network Ready (network hardware, software)

| | With product quality certification or its equivalent With manufacturer's warranty | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 28. | LABORATORY EQUIPMENT, Portable Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor | |
| | LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)- verify | |
| 29. | Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz | |
| | With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Single Needle | |
| | Lock Stitch Machine with Table Lock stitcher | |
| 30. | Direct electronic feed control | |
| 30. | Minimum lubrication: Semi-Dry For medium to heavy materials 5,000-4000 stitches per minute With product quality certification or its equivalent With manufacturer's warranty | |
| | LABORATORY EQUIPMENT, Water Quality | |
| | Monitoring Kit | |
| 31. | Can test pH (range: 3 - 10.5), nitrate-nitrogen (0-15 ppm), phosphate (0.2 ppm), dissolved oxygen (0-10 ppm), total alkalinity (0-200 ppm), turbidity (0-200 JTU), and temperature (0-5 to 45 degrees centigrade). | |
| | MONITOR, Patient Monitor | |
| | Measured parameter: ECG, CO2, NIBP, IBP, SpO2 | |
| | High-Definition Capacitive Touch Screen | |
| | weight.: 4.8 kg, size: 310 x289 x169mm USB interface support | |
| | Multi display mode; Built in high capacity battery up | |
| 32. | to 2 hours of continuous work; VGA output for continuous display | |
| | Display screen: Capacitive screen, support multi- | |
| | touch operation. 12.1-inch, 1280 x 800 pixels; | |
| | display channel: Up to 10 waveform channels | |
| | ECG; Led mode, 5 leads | |

| | SPO2; measuring range 0-100%; Resolution: 1%; | |
|-----|-----------------------------------------------------------------------------------|------|
| | Accuracy- 70%- 100%; Pulse rate: 20-250BPM | |
| | NIBP, Method: Oscillatory; Measure mode: Manual, | |
| | AUto STAT; UNit: mmHGg, kPa; Auto measure time: | |
| | Adjustable Measurement range: 10-270mmHg | |
| | ECG: | |
| | Lead mode: 3-lead or 5-lead | |
| | Lead selection: I, II, III, avR, avL, avF, V | |
| | Heart rate range: Adult: 15-300bpm, | |
| | Pediatric/Neonatal: 15-300bpm | |
| | ECG waveform: 2 channels | |
| | Accuracy: 1 bpm or 1% S-T segment detection | |
| | Measurement range:-0.2mv~2.0mv | |
| | Alarm: Yes, audible and visual alarm, alarm events | |
| | review PO2: Measurement range: 0-100% | |
| | Accuracy: 70-100%, 2% 0-69%, | |
| | unspecified Pulse rate: | |
| | Range: 20-254bpm; Accuracy: 3bpm Respiration: | |
| | Method: RA-LL impedance | |
| | Range: Adult:0-120rpm; pediatric/neonatal:0-150rpm; | |
| | Apnea alarm: Yes | |
| | Temperature: Range: 0-50 | |
| | EtCO2; Measurement Mode: Side-stream or | |
| | mainstream | |
| | Measurement range: EtCO2: 0-99mmHg; | |
| | Accuracy: CO2 concentration | |
| | Apnea alarm: YES | |
| | With accessories; 2 years warranty and after sales | |
| | service | |
| | With product quality certification or its equivalent With manufacturer's warranty | |
| | MULTIMETER, Water Quality Multi-meter | |
| | Parameters Measured: Dissolved Oxygen (%), | |
| | Dissolved Oxygen (mg/L), Temperature, Turbidity, | |
| 33. | Conductivity, Specific Conductance, Resistivity, | |
| 33. | Salinity, Water Density, pH, ORP, Ammonium, Nitrate, | |
| | Chloride, Total Dissolved Solids (TDS), Total | |
| | Suspended Solids (TSS), Depth, Barometer | |
| | | |

| | With product quality certification or its equivalent With manufacturer's warranty | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | TABLE, Teacher Demo Table with Sink and Overhead Mirror | |
| | Demonstration Mirror - Mirror bottom is 29 in. above tabletop. | |
| 34. | Cooktop - Ceramic glass with two burners (1,200 watts each), 15-ft extension cord, and a 120V GFCI duplex receptacle with 20-ft. extension cord. 120V, | |
| | 20A. Built-in Sink - Stainless steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's warranty | |
| 35. | TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 Diameter: 9.2 inches Height: 55 inches Weight: 170 pounds With product quality certification or its equivalent With manufacturer's warranty | |

BILL OF QUANTITIES

Name of Project: 2024-4E Supply and Delivery of Various Laboratory Equipment for the

University (Fourth Advertisement)
Location: NVSU, Bayombong Campus
Mode of Implementation: Public Bidding

Source of Fund: F101

Number of Calendar Days to Complete: <u>60 calendar days</u> Approved Budget for the Contract: <u>Php6,950,000.00</u>

| Item No. | Particulars | Qty | Unit of Measure ment | Unit Cost | Total Cost |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------|------------|------------|
| 1. | CABINET, Vented Chemical Storage Cabinet Freestanding, 34" Wide, 115V 60Hz Activated carbon main filter formulated for general-purpose storage to contain putrid organic odors as well as fumes With HEPA filter, eliminates exposure to biological particulates With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 210,000.00 | 210,000.00 |
| 2. | CALIBRATION EQUIPMENT, Inverted Microscope Infinite Optical System, Extra wide field eyepiece EW10X/22 Viewing Head: Trinocular head inclined at 30degrees, interpupillary distance 48-75mm Objective LWD infinite plan objective 4X/0.1,WD 17.3mm; 40X/0.6,WD 2.1mm Infinite plan phase objective PH10X/0.25,WD 10mm, PH20X/0.4,WD 5.1mm Quintuple nosepiece LWD condenser NA 0.3,LWD 72mm(without condenser 150mm) 10X-20X,40X phase annulus plate(fixed) | 1 | Unit | 80,000.00 | 80,000.00 |

| | Illumination: Halogen lamp 6V/30W With product quality certification or its equivalent With manufacturer's warranty | | | | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| 3. | CALIBRATION EQUIPMENT, NIR spectrometer analyzer portable spectrometer Wavelength Range: 350-950 Stray light: less than or equal to 0.3% Spectral bandwidth (FWHM): 2nm CCT range: 1,000K~ 100,000K Frequency range: 25-1KHz Chromaticity coordinate accuracy: margin of error plus minus 0.0025 Application: Medical Beauty Light source Frequency sampling rate: 1-10KHz With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 200,000.00 | 200,000.00 |
| 4. | CALIBRATION EQUIPMENT, Portable Biogas Analyzer Gases detected CH4, CO2, H2S, O2 Measuring range CH4: (0-100)%vol CO2: (0- 100)%vol H2S: (0~1000) ppm O2: (0~30.0)%vol Resolution ratio CH4: 1%vol, CO2: 1%vol, H2S: 1ppm, O2: 0.1%vol Sensor Infrared sensor and electrochemical sensor Sensor lifetime greater than or equal to 5years (CH4, CO2) greater than or equal to 2years (H2S, O2) | 1 | Unit | 100,000.00 | 100,000.00 |

| Response time CH4: less than or equal to 45S (T90) CO2: less than or equal to 45s (T90) H2S:less than or equal to45s (T90) O2: less than or equal to45s (T90) Alarms Audiblebuzzer with greater than or equal to 80dB audible Visible-flashing red LED, greater than or equal to 20m visible Alarm point Fully adjustable Data logging Continuous Data logging (1900 events at configurable 0.1-10 minutes intervals) Continuous working time greater than or equal to 13hours Display Liquid Crystal Display (LCD) Battery model PL123450, 3.7V/1500mA Charging time 4-5 hours Dust and water resistance IP65 With product quality certification or its equivalent | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| With manufacturer's warranty CALIBRATION EQUIPMENT, Water Activity Meters Measurement range: 0.1 to: 0.98 Aw (5- 45 degree Celsius) Measuring principle: Electrolytic (surface IR and NTC) Measurement accuracy: AW margin of error plus and minus 5. 0.01 (margin of error plus and minus 15 degrees celsius) precision: margin of error plus and minus 0.003aw within the adjustment range (margin of error plus and minus 0.1 degree celsius) Resolution: 0.001aw (0.1 degree celsius) | 1 | Unit | 190,000.00 | 190,000.00 |

| Accuracy: margin of error plus and minus 0.010aw within calibration range (margin of error plus and minus 0.15 degree celsius) With product quality certification or its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, Analyzer | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| Glass-less infrared heating increases efficiency for faster results Flexible performance: Provides accurate results at either 0.1% or 10 mg readability, and is ideal for textiles, wastewater, ceramics, food and other applications that require IR heating elements and measurements to 0.1% Simple to operate: Set up and operation is extremely easy, just press and hold the temperature or time buttons to set drying parameters, add your sample and begin the test process. This makes the analyzer ideal for routine tasks performed by operators of all skill levels Compact, easy-to-clean design: The compact footprint 6.0-7.0 x 5- 6 x 11-12" (15-18 x 12-15x 25 cm-30 cm) of the analyzer is designed to take up less space and the easy-to-clean heating chamber is ideal for frequent use and inexpensive maintenance User-friendly touch-button design for easy operation | 1 | Unit | 220,000.00 | 220,000.00 |

| | Compact design suits any workspace Three shut off criteria (manual, timed or auto) One standard heating profile 40 to 200 degree celsius heating range (4-8 degree celsius increments) With product quality certification or its equivalent | | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| 7. | With manufacturer's warranty LABORATORY EQUIPMENT, Antibiotic Disc Dispenser and Zone Reader Diameter Range: 0 to 80.0 mm Resolution: 0.1 mm Illumination: Lamp/LED 12 V/ DC Display: 4 digit seven segment LED display Power Supply: 230V +10% AC, 60Hz With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 70,000.00 | 70,000.00 |
| 8. | LABORATORY EQUIPMENT, Archimedes Principle Apparatus Set SDFDEWER This set includes 1 Density set 1 Overflow can 1 large rod base 1 stainless Steel rod, 45 cm 1 Braided physics string 1 Ohaus Triple-beam balance (with Tare) 1 stainless caliper 1 1000 ml beaker 1 100 ml beaker 1 50 ml graduated cylinder 1 Archimedes Principle Experiment With product quality certification or its equivalent With manufacturer's warranty | 1 | Set | 70,000.00 | 70,000.00 |
| 9. | LABORATORY EQUIPMENT, Arduino Artificial | 1 | Unit | 425,000.00 | 425,000.00 |

| Iı | ntelligence Suite (Dobot Basic AI |
|----|------------------------------------------------------|
| K | it) DfRduino Mega2560 V3 |
| S | pecs: |
| N | licrocontroller: ATmega2560 |
| C | perating Voltage 5V |
| | nput Voltage (recommended): 7V- 2V |
| Iı | nput Voltage (range): 6V-20V |
| | rigital I/O Pins: 54 (of which 15 rovide PWM output) |
| A | nalog Input Pins: 16 I/O |
| D | C Current per I/O Pin: 50 mA |
| Г | C Current for 3.3V Pin: 50 mA |
| F | lash Memory: 256 KB of which 4 |
| K | B used by the bootloader |
| S | RAM: 8 KB |
| Е | EPROM: 4 KB Clock Speed: |
| 1 | 6MHz |
| P | ixy CMUcam5 Specs: |
| | rocessor: NXP LPC330, 204MHz, ual-core |
| Iı | mage Sensor: Omni vision |
| C | V9715, 1/4", 1280x800 Image |
| | ensor: 75 degrees horizontal, 47 |
| | egrees vertical |
| | ens Type: Standard M12 (several |
| | ifferent types available) |
| | ower Consumption: 140 mA |
| | ower Input: USB Input (5V) or |
| | nregulated input (6V to 10V) |
| | AM: 264K bytes |
| | lash: 1M bytes |
| Α | vailable Data Outputs: UART erial, SPI, I2C, USB, |
| | rigital, Analog |
| | ize: 2.1" × 1.75" × 1.4" |
| K | eycap Color: Red, Green, Blue upply Voltage: 3.3V - |
| 5 | |
| | |

| | Data Type Digital Size: 22mm × 30mm LED Module Specs: Color: Red, Green, Blue Brightness: 2500mcd to 3300mcd Highlight Output Voltage: 3.3V - 5V Wavelength: 520nm - 530nm Angle: 80° - 110° Size 30mm × 20mm Weight: 5g With product quality certification or its equivalent With manufacturer's warranty | | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| 10. | LABORATORY EQUIPMENT, Brake dynamometer Analog/Digital Max Power range: 10-20 hp Max RPM: 2000 rpm Max Torque: 400 Nm With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 250,000.00 | 250,000.00 |
| 11. | LABORATORY EQUIPMENT, Conservation of Momentum Apparatus (complete set) This set includes: 2 cart mass 2 small cart 2 Dynamics Track end stop (Pair) 2 Dynamics Track feet 1 Aluminum Dynamics Track 1 small cart rod stand adapter With product quality certification or its equivalent With manufacturer's warranty | 1 | Set | 70,000.00 | 70,000.00 |
| 12. | LABORATORY EQUIPMENT, Conventional Milling Machine Drilling Capacity: 45mm diameter Face milling Capacity: 80mm diameter | 1 | Unit | 220,000.00 | 220,000.00 |

| | End milling Capacity: 32mm diameter | | | | |
|-----|------------------------------------------------------------------------------------------------------------------|---|------|-----------|-----------|
| | Max. Dist. from Spindle nose to table 450mm | | | | |
| | Min. dist. From spindle axis to column 260mm | | | | |
| | Spindle travel: 130 mm | | | | |
| | Spindle speed @ 60Hz 95- 1500RPM | | | | |
| | Table size: 800x240mm | | | | |
| | Motor power: 1.5 KW (2HP) | | | | |
| | Std. Accessories: | | | | |
| | 1 set of collet, 4 milling vise, | | | | |
| | clamping kit, 10 pc end mill cutter | | | | |
| | Features: Gear Driven, Head Swivels 90° vertically, micro feed precision. With DRO (Digital Read | | | | |
| | Out) With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, | | | | |
| | Diesel engine with common rail | | | | |
| | intercooler | | | | |
| | Educational Trainer 4 stroke engine; | | | | |
| | 4 in-line cylinders; 4 valves per | | | | |
| | cylinder | | | | |
| | Displacement: 2500/2800 cu. Cm | | | | |
| | Power: 150-170 hp at 4000 RPM | | | | |
| 13. | | 1 | Unit | 70,000.00 | 70,000.00 |
| | Vibration-damping balancing shafts | | | | |
| | Common rail-type direct injection with electro-injectors | | | | |
| | Turbo-supercharger with air-air intercooler | | | | |
| | Alternator-oil filter-oil pump With product quality certification or its equivalent With manufacturer's warranty | | | | |

| 14. | LABORATORY EQUIPMENT, DIGITAL WATER VELOCITY METER Digital display in ft/sec or m/sec; Records 30 data sets for later analysis; Rain-proof digital computer; Highly accurate easy flow monitoring; Debris shedding turbo-prop; Lightweight, rugged, and reliable Telescoping handle with staff gauge; Padded carrying case for easy storage CE Certified With manufacturer's warranty | 1 | Unit | 60,000.00 | 60,000.00 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|-----------|-----------|
| 15. | LABORATORY Feed Pelletizer Granulation Machine Spec: Automation Grande: Automatic Brand: Generic Die and Roller Size: 6 inches Dimension: 38 x 12 x 26 inch Motor Power: 7.5 HP Output Capacity: 250 kg/hr Pellet Size: 4-10mm; Phase: Single Product Type: Food Pellet Machine Voltage: 220V-240V With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 75,000.00 | 75,000.00 |
| 16. | LABORATORY EQUIPMENT, Feed Pelletizer Machine with Electric Motor Power: 5HP Single Phase Working Load: 80-100 kg/hr Default Disc Mill: 3mm Boundary Dimension: 750 x 280 x 700mm Voltage source: 220V-240V | 1 | Unit | 60,000.00 | 60,000.00 |

| | With product quality certification or its equivalent | | | | |
|-----|------------------------------------------------------------------------------------------------------------|---|------|-----------|-----------|
| | With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, Fiber Optic Splicing Machine | | | | |
| | AC adaptor: 100-220Vac input | | | | |
| | voltage, 60 Hz; 12 Vdc, 5A output | | | | |
| | voltage | | | | |
| | With Lithium Battery: 11.1V, 5.2Ah | | | | |
| | Applicable to SM, MM, NZ-DS, | | | | |
| | EDF, Pigtail, FTTH dropcable | | | | |
| | SC/LC/FC connector | | | | |
| | Average Splice loss: 0.02dB(SM), | | | | |
| | 0.01dB(MM), 0.04dB(NZDS), | | | | |
| | 0.04dB(EDF) | | | | |
| | Return Loss: ≥ to 60dB | | | | |
| | Splicing time: 8 seconds | | | | |
| 17. | Heating time: 25 seconds | 1 | Unit | 80,000.00 | 80,000.00 |
| | Tension Test: 2.0N | | | | |
| | Splicing Program: 50 groups | | | | |
| | Operating Conditions: -10 degree | | | | |
| | celsius to +50 degree celsius, 0- | | | | |
| | 95% RH, 0-5000m (altitude) | | | | |
| | LCD Monitor: 5 inches, high resolution | | | | |
| | Fiber Image Magnification: X or Y | | | | |
| | separately views with 400 times | | | | |
| | magnification | | | | |
| | Storage Result: 6,000 groups of latest splice results With product quality certification or its equivalent | | | | |
| | With manufacturer's warranty LABORATORY EQUIPMENT, | | | | |
| | FM Transmitter Long Range Broadcast Stereo (4 units) | | | | |
| 18. | Transmitter: FM | 1 | Unit | 68,000.00 | 68,000.00 |
| | Frequency range: FM: 87-108MHz | | | , | , |
| | Step frequency: less than or equal to 100Khz | | | | |

| | Frequency stability: margin of error ± 10PPM | | | | |
|-----|------------------------------------------------------|---|------|-------------|------------|
| | Frequency Stabilization Method: PLL | | | | |
| | Harmonic Noise: less than or equal to -50dB | | | | |
| | Output Impedance: 50 ohms | | | | |
| | Rf output power: up to 15W (8 levels adjustable) | | | | |
| | Pre-highlight: 75 microseconds | | | | |
| | Distortion sound: 0.3% | | | | |
| | Bluetooth distance: about 5 meters | | | | |
| | Frequency response: 50Hz~15000Hz | | | | |
| | Split: '30dB | | | | |
| | Frequency adjustment: margin of error ± 75KHZ | | | | |
| | Snr: '60 dB | | | | |
| | Antenna Connector Type: TNC | | | | |
| | Working temperature: -10-45 | | | | |
| | degree celsius | | | | |
| | Transmitter Size: 144x100x59mm | | | | |
| | Transmitter weight: 545 grams | | | | |
| | Antenna: Connection Type: TNC | | | | |
| | Power: 2.15dB | | | | |
| | Impedance: 50 ohms | | | | |
| | Maximum stretch length: 1150 mm. (3.77 Feet) | | | | |
| | Shortest abbreviation length: 210 mm. (0.69 Feet) | | | | |
| | Feed Length: 5m(16.4ft) | | | | |
| | Power Supply: | | | | |
| | Input voltage: 100-240V 50/60Hz | | | | |
| | Output Power: DC, 12V 3A | | | | |
| | With product quality certification or | | | | |
| | its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, Handheld XRF for Soil Analysis | | | | |
| 19. | and Environmental Remediation | 1 | Unit | 1,200,000.0 | 1,200,000. |
| | | | | 0 | 00 |
| | | | | | |

| | Dimensions: (W x H x D) 8.3 cm × | | | | |
|-----|------------------------------------------------------------|---|------|------------|------------|
| | 28.9 cm \times 24.2 cm (3.25 in. \times 11.4 | | | | |
| | $\sin \times 9.5 \text{ in.}$ | | | | |
| | , | | | | |
| | Weight: 1.70 kg (3.75 lb) with | | | | |
| | battery, 1.48 kg (3.24 lb) without | | | | |
| | battery | | | | |
| | Excitation Source: -watt X-ray tube | | | | |
| | with application-optimized anode | | | | |
| | material [rhodium (Rh), silver (Ag), | | | | |
| | or tungsten (W)] | | | | |
| | Detector: M series | | | | |
| | Large-area silicon drift detector | | | | |
| | Power: Removable 14.4V Lithium- | | | | |
| | ion battery with hot-swap capability | | | | |
| | Display: 800 × 480 (WVGA) LCD with capacitive touch screen | | | | |
| | supporting gesture control | | | | |
| | With product quality certification or | | | | |
| | its equivalent With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, | | | | |
| | Heavy duty over locker machine | | | | |
| | with table | | | | |
| | 1300-1500 max sewing speed 3/4 | | | | |
| 20. | thread, 4 color easy threading guide | 2 | Unit | 60,000.00 | 120,000.00 |
| 20. | 2-4 thread overlocker | 2 | Omt | 00,000.00 | 120,000.00 |
| | LED work light | | | | |
| | With product quality certification or | | | | |
| | its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, Lab Mill/husker | | | | |
| | Capacity: 250 grams paddy sample | | | | |
| | Capacity/hr: 50 kg/hr | | | | |
| | Power: 400 W (0.5 hp) single phase | | | | |
| 21. | | 1 | Unit | 100,000.00 | 100,000.00 |
| | 1,900 RPM | | | | |
| | Follow Power: 1,000 RPM Size: | | | | |
| | 720 x 480 x 1400 mm | | | | |
| | Weight: 49 kg | | | | |
| | Power source: 220 V, 60 hz | | | | |

| XX7',1 1 , 11, | | | | 1 |
|--------------------------------------------------------|-----|------|------------|------------|
| With product quality certification of | r | | | |
| its equivalent With manufacturer's warranty | | | | |
| LABORATORY EQUIPMENT | , | | | |
| LAN Trainer Set: wired and | | | | |
| wireless | | | | |
| FEATURES | | | | |
| PC to PC communication with IEEE | 3 | | | |
| 802.3 | | | | |
| Wireless LAN-IEEE 802.11 b | | | | |
| Token Bus - IEEE 802.4 | | | | |
| Network design using RJ45 connectors | 5 | | | |
| Error generation | | | | |
| Real time graphical representation | ı | | | |
| of entire transmission & reception | | | | |
| User friendly softward SPECIFICATIONS | e | | | |
| Hardware | | | | |
| PC to PC using RJ-45 Connector | | | | |
| Star topology using RJ45 Connector | | | | |
| Bus topology using RJ45 Connecto | r 1 | Unit | 290,000.00 | 290,000.00 |
| Data transmission speed: 10/100 Mbps |) | | | |
| 4 Nodes | | | | |
| Software | | | | |
| Bus, Ethernet, Wireless Topology | | | | |
| Protocols: Stop N Wait, Go back to N, Selective repeat |) | | | |
| Packet size: 128, 256, 512, 1024 2048, 4096, 8192, | , | | | |
| 16384 | | | | |
| Inter Packet delay: 1000-5000 ms | | | | |
| Error generation: Acknowledgmen | t | | | |
| lost, bad packet, auto erro | r | | | |
| generation | | | | |
| Data encryption & decryption | | | | |
| Complete analysis of Network & Protocols | Z | | | |

| | | 1 | Ι | T T | 1 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----------|-----------|
| | Graphic representation of data on | | | | |
| | s/w screen with packet details | | | | |
| | Network details indication of | | | | |
| | computer name, IP address, Port | | | | |
| | number, status of network, MAC | | | | |
| | address and OS on computer. | | | | |
| | Indication of packet serial number, | | | | |
| | file name, file size, file number, | | | | |
| | receiver name, Workgroup, receiver | | | | |
| | IP address, total packets, packet | | | | |
| | length, time out, protocol, topology, | | | | |
| | receiver, MAC address, port | | | | |
| | number, file send start time, file sent | | | | |
| | completion time, transmission time | | | | |
| | data rate(Mbps), error. | | | | |
| | Power Supply: 220 V margin of error plus minus 10%, | | | | |
| | 50 Hz / 60 Hz on request | | | | |
| | Power Consumption : 1.8 VA | | | | |
| | (approx.) Evolution of dynamic | | | | |
| | behavior. | | | | |
| | Experiments that can be performed | | | | |
| | Study & implementation of cable designs in networking | | | | |
| | Implementation of PC to PC with IEEE 802.3 | | | | |
| | Implementation of PC to PC with IEEE 802.11 b | | | | |
| | Implementation of Bus topology with IEEE 802.4 | | | | |
| | Study of protocols | | | | |
| | Study of flow control | | | | |
| | Stop-N-wait | | | | |
| | Go back to N Selective repeat | | | | |
| | | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, | | | | |
| 23. | | 1 | | 97,000.00 | 97,000.00 |
| | | | | | |
| 23. | Study of flow control Stop-N-wait Go back to N Selective repeat With product quality certification or its equivalent With manufacturer's warranty | 1 | | 97,000.00 | 97,000.00 |

| % Feu Maxir Maxir 40 deg Minin degree Minin Reada Tare r | num humidity: 80% num operating temperature: grees Celsius num ambient temperature: 5 es Celsius num humidity: 5% ability (moisture): 0.050% range: 200g | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|-----------|-----------|
| Multip Meter Portab 20.000 Resolu Select Calibr pHBu DIN, 3 margin 1999.9 selecta plus m 24. Calibr Ion (deper ISE) Resolu Accur F.S. (mono minus Measu mol/L Calibr (0.001 100, 1 Condu 200.0, | ole Type pH Range -2.000- DpH ution 0001,0.01,0.1pH able Accuracy: 0.002pH ration Points: 1 to 5 points ffer Options USA, NIST, 2 custom buffers ORP Range n of error plus minus DmV Resolution 0.1, 1mV, able Accuracy margin of error ninus 0.2mV ration Points: 1 point Range: 0.001~19999 nding on the range of ution: 0.001, 0.01, 0.1, 1 racy margin of error ±0.5% evalent), margin of error plus | 1 | Unit | 60,000.00 | 60,000.00 |

| 25. | ONE SET (ONE BASE AND ONE ROVER) | 1 | Unit | 590,000.00 | 590,000.00 |
|-----|------------------------------------------------------------------------|---|------|------------|------------|
| | its equivalent With manufacturer's warranty LABORATORY EQUIPMENT, | | | | |
| | Calibration Points 1 or 2 points With product quality certification or | | | | |
| | minus 2.0% | | | | |
| | \pm 0.2mg/L, margin of error plus | | | | |
| | Accuracy margin of error | | | | |
| | Resolution 001mg/L,0.1% | | | | |
| | 0.0~200.0% saturation | | | | |
| | DO Range 0.00~20.00mg/L, | | | | |
| | error ± 1% F.S. | | | | |
| | Resolution 0.01 Accuracy margin of | | | | |
| | Resistivity Range 0.00~20.00M? | | | | |
| | Accuracy margin of error: ± 1% F.S. | | | | |
| | Resolution 0.01 | | | | |
| | Salinity Range 0.00~42.00psu, 0.00~80.00ppt | | | | |
| | TDS Factor 0.1~1.0 (default 0.5) | | | | |
| | minus 1% F.S. | | | | |
| | Accuracy margin of error plus | | | | |
| | Resolution 001,0.1,1 | | | | |
| | TDS Range: 0~10.00, 100.0, 1000ppm, 10.00, 200.0ppt | | | | |
| | custom | | | | |
| | Cell Constant K=0.1, 1, 10 or | | | | |
| | Reference Temperature 20/25 degree celsius | | | | |
| | Water Performed Temperature 20/25 | | | | |
| | (0.0-10.0%/degree celsius) pure | | | | |
| | Temperature Coefficient Linear | | | | |
| | 111.8mS/cm | | | | |
| | 1413microS/cm, 12.88mS/cm, | | | | |
| | 10microS/cm, 84microS/cm, | | | | |
| | Calibration Solutions: | | | | |
| | Calibration Points: 1 to 5 points | | | | |
| | Accuracy margin of error: ± 0.5% F.S. | | | | |
| | Accuracy margin of error: + U 7% | | | | |

| | MULTI- FREQUENCY GNSS | | | | |
|-----|-------------------------------------------------------------------------------|---|------|------------|------------|
| | RECEIVER FOR | | | | |
| | STATIC, RTK AND PPK | | | | |
| | APPLICATION | | | | |
| | APPLICATION: With static, post | | | | |
| | Processed and real time kinematic. | | | | |
| | Display: NO DIGITAL DISPLAY | | | | |
| | Satellite Tracking: GPS, | | | | |
| | GLONASS, BEIDOU AND | | | | |
| | GALILEO, QZSS, SBAS | | | | |
| | ACCURACY: MINIMUM | | | | |
| | High-Precision Static (RMS) Horizontal 2.5mm+0.1ppm | | | | |
| | Vertical 3.5mm+0.4ppm Static & | | | | |
| | Fast Static (RMS) | | | | |
| | Horizontal 2.5 mm + 0.5 ppm | | | | |
| | Vertical 5 mm + 0.5 ppm Real Time | | | | |
| | Kinematic (RMS) | | | | |
| | Horizontal 8 mm + 1 ppm | | | | |
| | Vertical 15 mm + 1 ppm | | | | |
| | Post Processed Kinematic (RMS) | | | | |
| | Special feature: REALLY FIX UNDER CANOPIES (must be | | | | |
| | tested in actual) FREE INTERNET | | | | |
| | RTK SUBSCRIPTION | | | | |
| | (NTRIP) | | | | |
| | Battery operation must be 16hours | | | | |
| | with two batteries with led light indicator in battery for charge status | | | | |
| | must be NTC type approved must be | | | | |
| | a direct distributor (exclusive) | | | | |
| | software 1. can be installed in | | | | |
| | android phones, tablet or any | | | | |
| | android gadgets2. free and downloadable at anytime | | | | |
| | controller software must have data | | | | |
| | quality control like configuring only | | | | |
| | the allowable tolerable error. | | | | |
| | With product quality certification or its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | LABORATORY EQUIPMENT, | | | | |
| 26. | Petrol Engine, Electronic | 1 | Unit | 170,000.00 | 170,000.00 |
| 20. | Fuel Injection (EFI) System | 1 | Omi | 170,000.00 | 170,000.00 |
| | Training Equipment 4 cylinders | | | | |

| | | | | | - |
|-------------|-------------------------------------------------|---|------|------------|------------|
| _ | OHC, 1.3 CC minimum | | | | |
| | placement, with OBD 2 | | | | |
| _ | socket, with functional | | | | |
| | instrument panel, real | | | | |
| _ | ble engine fuel injection | | | | |
| | illustrate the structure & | | | | |
| | process, equipment with | | | | |
| intelligent | fault setting and appraisal | | | | |
| system, | include fault setting, | | | | |
| troublesho | oting & assessment | | | | |
| functions, | etc., it uses ordinary 220 | | | | |
| ACV pow | er which will transformed | | | | |
| into 12 De | CV as power source, has | | | | |
| metal base | frame, paint coated, with | | | | |
| table top a | ttached to the frame, and | | | | |
| _ | eel with lock on base of | | | | |
| frame | for mobility. with | | | | |
| manufactu | rer warranty on parts and | | | | |
| | h manual of operation | | | | |
| | version) and include | | | | |
| training or | the use of equipment | | | | |
| | uct quality certification or | | | | |
| its equival | = - | | | | |
| _ | ıfacturer's warranty | | | | |
| LABORA | - | | | | |
| | Fitness Testing Machine | | | | |
| System As | ssessments include: | | | | |
| Biometric | Assessments: Blood | | | | |
| Pressure, I | Body Weight, | | | | |
| | Measurements, Blood | | | | |
| Chemistrie | * | | | | |
| Ratio/Bod | , I | | | | |
| | pirometry. | | | | |
| | nposition Assessments: 2, | 1 | Unit | 400,000.00 | 400,000.00 |
| 3 and | 7 skinfold sites, | 1 | Cint | 100,000.00 | 100,000.00 |
| Circumfer | | | | | |
| Calculation | • | | | | |
| Calculation | - | | | | |
| | | | | | |
| | Protocols: Sit & Reach k and Shoulder Rotation. | | | | |
| | | | | | |
| | cular Assessments: Bike | | | | |
| Ergometer | | | | | |
| Treadmill | Tests, Adult Field Tests | | | | |

| | | | |
|-----------------------------|---------------------------------------------|--|------|
| Strength Pro | otocols: Biceps Strength | | |
| Test, Pushu | ps, Sit-ups, 1- Rep Max | | |
| Protocols. | | | |
| | | | |
| Features Sy | | | |
| Computer In Medical Gra | nterface Unit Integrated, ade | | |
| Cart | | | |
| With computer ha | appropriate/compatible ardware and software | | |
| With all-in- | one inkjet Color Printer | | |
| Interactive Equipment | Fitness Testing Skinfold Caliper | | |
| Wireless Po Isometric St | olar Heart Rate System rength | | |
| | odified Sit and Reach | | |
| Platform | | | |
| Fitness Ass Planning So | sessment and Exercise ftware | | |
| | President?s Challenge | | |
| | sessment protocols) | | |
| | Videos & Tutorials | | |
| _ | sonal Profile (up to 20 | | |
| | raphical and Data | | |
| | Trend (compares 6 | | |
| |) Class Lists and | | |
| Database Qu | | | |
| | Merge Letters, Labels | | |
| Available O | | | |
| Testing Equ | • | | |
| | System Interface and | | |
| | Autobike, Interactive | | |
| Testing Bike | | | |
| | ood Pressure and Heart | | |
| Rate System | | | |
| | liper Upgrade | | |
| Bioimpedan | ice Scale Software | | |
| Health Risk | Appraisal | | |

| | (includes CDC Youth Risk Behavior Surveys) Meal Planner Group Reporting Template Builder System Network Ready (network hardware, software) With product quality certification or its equivalent With manufacturer's warranty | | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| 28. | LABORATORY EQUIPMENT, Portable Transmittance Spectromata wavelength 380-780 mm; high precision CCD sensor | 1 | Unit | 200,000.00 | 200,000.00 |
| 29. | LABORATORY EQUIPMENT, Sheet Metal Box Bending Machine Manual Box Sheet Bender Width: 1220MM (48?)-verify Max thickness: 1.5MM Bending Angle: 0-120° Weight: 95kgz With product quality certification or its equivalent With manufacturer's warranty | 1 | Unit | 300,000.00 | 300,000.00 |
| 30. | LABORATORY EQUIPMENT, Single Needle Lock Stitch Machine with Table Lock stitcher Direct electronic feed control Minimum lubrication: Semi-Dry For medium to heavy materials 5,000-4000 stitches per minute With product quality certification or its equivalent With manufacturer's warranty | 2 | Unit | 50,000.00 | 100,000.00 |
| 31. | LABORATORY EQUIPMENT, Water Quality Monitoring Kit Can test pH (range: 3 - 10.5), nitrate-nitrogen (0-15 ppm), phosphate (0.2 ppm), dissolved oxygen (0-10 ppm), total alkalinity (0-200 ppm), turbidity (0-200 JTU), and temperature (0-5 to 45 degrees centigrade). | 2 | Unit | 50,000.00 | 100,000.00 |

| | MONITOR, Patient Monitor Measured parameter: ECG, CO2, NIBP, IBP, SpO2 | | | | |
|-----|------------------------------------------------------------------------|---|------|------------|------------|
| | High-Definition Capacitive Touch | | | | |
| | Screen | | | | |
| | weight.: 4.8 kg, size: 310 x289 | | | | |
| | x169mm | | | | |
| | USB interface support | | | | |
| | Multi display mode; Built in high | | | | |
| | capacity battery up to 2 hours of | | | | |
| | continuous work; VGA output for | | | | |
| | continuous display | | | | |
| | Display screen: Capacitive screen, | | | | |
| | support multi-touch operation. 12.1- | | | | |
| | inch, 1280 x 800 pixels; display | | | | |
| | channel: Up to 10 waveform | | | | |
| | channels | | | | |
| | ECG; Led mode, 5 leads | | | | |
| 32. | SPO2; measuring range 0-100%; Resolution: 1%; | 1 | Unit | 100,000.00 | 100,000.00 |
| | Accuracy- 70%- 100%; Pulse rate: | | | | |
| | 20-250BPM NIBP, Method: | | | | |
| | Oscillatory; Measure mode: | | | | |
| | Manual, | | | | |
| | AUto STAT; UNit: mmHGg, kPa; Auto measure time: | | | | |
| | Adjustable Measurement range: 10- | | | | |
| | 270mmHg | | | | |
| | ECG: | | | | |
| | Lead mode: 3-lead or 5-lead | | | | |
| | Lead selection: I, II, III, avR, avL, avF, V | | | | |
| | Heart rate range: Adult: 15-300bpm, | | | | |
| | Pediatric/Neonatal: 15-300bpm | | | | |
| | ECG waveform: 2 channels | | | | |
| | Accuracy: 1 bpm or 1% S-T | | | | |
| | segment detection | | | | |
| | Measurement range:-0.2mv~2.0mv | | | | |

| | Alarmy Vas audible and viewal | | | | |
|-----|------------------------------------------------------|---|------|------------|------------|
| | Alarm: Yes, audible and visual | | | | |
| | alarm, alarm events review PO2: | | | | |
| | Measurement range: 0-100% | | | | |
| | Accuracy: 70-100%, 2% 0-69%, | | | | |
| | unspecified Pulse rate: | | | | |
| | Range: 20-254bpm; Accuracy: | | | | |
| | 3bpm Respiration: | | | | |
| | Method: RA-LL impedance | | | | |
| | Range: Adult:0-120rpm; pediatric/neonatal:0-150rpm; | | | | |
| | Apnea alarm: Yes | | | | |
| | Temperature: Range: 0-50 | | | | |
| | EtCO2; Measurement Mode: Side- | | | | |
| | stream or mainstream | | | | |
| | Measurement range: EtCO2: 0- | | | | |
| | 99mmHg; | | | | |
| | Accuracy: CO2 concentration | | | | |
| | Apnea alarm: YES | | | | |
| | With accessories; 2 years warranty | | | | |
| | and after sales service | | | | |
| | With product quality certification or its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | MULTIMETER, Water Quality | | | | |
| | Multi-meter | | | | |
| | Parameters Measured: Dissolved | | | | |
| | Oxygen (%), | | | | |
| | Dissolved Oxygen (mg/L), Temperature, Turbidity, | | | | |
| | Conductivity, Specific | | | | |
| | Conductance, Resistivity, | | | | |
| 33. | Salinity, Water Density, pH, ORP, Ammonium, Nitrate, | 1 | Unit | 200,000.00 | 200,000.00 |
| | Chloride, Total Dissolved Solids (TDS), Total | | | | |
| | Suspended Solids (TSS), Depth, | | | | |
| | Barometer | | | | |
| | With product quality certification or | | | | |
| | its equivalent | | | | |
| | With manufacturer's warranty | | | | |
| | TABLE, Teacher Demo Table with | | | | |
| 34. | Sink and Overhead | 1 | Unit | 80,000.00 | 80,000.00 |
| | Mirror | | | | |

| | Demonstration Mirror - Mirror | | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------------|------------|
| | bottom is 29 in. above tabletop. | | | | |
| | Cooktop - Ceramic glass with two | | | | |
| | burners (1,200 watts each), 15-ft | | | | |
| | extension cord, and a 120V GFCI | | | | |
| | duplex receptacle with 20-ft. | | | | |
| | extension cord. 120V, 20A. | | | | |
| | Built-in Sink - Stainless steel with hand-pump faucet, 2-1/2 gallon fresh water container, and 2-1/2 gallon waste water container. With product quality certification or its equivalent With manufacturer's warranty | | | | |
| | TANK, Argon tank with argon gas Cylinder Type Name: T 330 Tank Gas Capacity in Cubic Feet: 335 | | | | |
| 35. | Diameter: 9.2 inches Height: 55 inches | 1 | Unit | 325,000.00 | 325,000.00 |
| | Weight: 170 pounds With product quality certification or its equivalent | | | | |
| | With manufacturer's warranty | | | | |

| Name of Sup | oplier : | | |
|-------------|----------|--|--|
| 1 | . 1 | | |
| | | | |
| Address | : | | |
| | | | |
| Contact Nun | nber : | | |

Technical Specifications

| | TECHNICAL SPECIFICATIONS | | | | | | |
|-------------------|--------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Item / Service | Maximum Quantity | Technical Specifications / Scope of Work | Statement of Compliance | | | | |
| | | | [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 crossreferenced 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.] | | | | |

Section VIII. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary "pass/fail" criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

| | | Class A Documents |
|-----|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Leg | <u>gal Do</u> | <u>cuments</u> |
| | (a) | Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); |
| | (b) | 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, <u>and</u> |
| | (c) | 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; <u>and</u> |
| | (d) | Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR). |
| Tec | chnica | l Documents |
| | (e) | Statement of the prospective bidder of all its ongoing government and private |
| | (f) | 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; <u>and</u> 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 |
| | (g) | 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 certification issued by the Insurance Commission; or |
| | | Original copy of Notarized Bid Securing Declaration; and |
| | (h) | Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or aftersales/parts, if applicable; and |
| | (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 ap | oplicable, 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. | FINA | ANCI | AL COMPONENT ENVELOPE |
| | | (m) | Original of duly signed and accomplished Financial Bid Form; and |
| | | (n) | Original of duly signed and accomplished Price Schedule(s). |
| | <u>Oth</u> | er do | cumentary requirements under RA No. 9184 (as applicable) |
| | | (o) [F | or 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 government procurement activities for the same item or product. |
| | | (p) Co | ertification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity. |

ANNEX I – BIDDING FORMS

Bid Form for the Procurement of Goods

[shall be submitted with the Bid]

| | BID FORM |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Date : |
| | Project Identification No: |
| To: [name o | and address of Procuring Entity] |
| Bulletin Numbo offer to [supply of [total Bid an computational and made part of the applicable | g examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid ers [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, by/deliver/perform] [description of the Goods] in conformity with the said PBDs for the sum mount in words and figures] or the total calculated bid price, as evaluated and corrected for errors, and other bid modifications in accordance with the Price Schedules attached herewith of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: [specify taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal es], which are itemized herein or in the Price |
| If our | Bid is accepted, we undertake: |
| a. | to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs); |
| b. | to provide a performance security in the form, amounts, and within the times prescribed in the PBDs; |
| C. | to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period. |
| Comm | this paragraph if Foreign-Assisted Project with the Development Partner: nissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to ution if we are awarded the contract, are listed below: |
| | ddress Amount and Purpose of agent mmission or gratuity |
| | |
| | |

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of [name of the bidder] as evidenced by the attached [state the written authority].

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

| Name: | |
|----------------------------------------------------|--|
| Legal capacity: | |
| Signature: | |
| Ouly authorized to sign the Bid for and behalf of: | |
| Date: | |

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

| REPUBLIC OF THE PHILIPPINES) | |
|------------------------------|---------|
| , | 7 0 0 |
| CITY OF | _) S.S. |

BID SECURING DECLARATION Project Identification No.: [Insert number]

To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
- 2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
- 3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to sucheffect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ______day of [month] [year] at [place of execution].

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES) CITY/MUNICIPALITY OF) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. [Select one, delete the other:]

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. [Select one, delete the other:]

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorized representative(s) to verify all the documents submitted;

6. [Select one, delete the rest:]

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract:
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this day of , 20 at , Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

Price Schedule for Goods Offered from Within the Philippines

[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

| me (| of Bidder_ | | | | Project | ID No | | Page | _of |
|------|-------------|----------------------|----------|-------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| ltem | Description | Country of origin | Quantity | Unit price EXW per item | Transportation and all other costs incidental to delivery, per item | Sales and other taxes payable if Contract is awarded, per item | Cost of Incidental Services, if applicable, per item | Total Price, per unit (col 5+6+7+ 8) | Total Price delivered Final Destination (col 9) x (col 4) |
| _ | Capacity: _ | | | | | | | | |

STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

This is to certify that (company) has the following completed contracts for the period CY 2019-2021. (Note: covering 2 years up to the opening of bids)

| Date of the Contract | Contracting Party | Name of Contract | Kind of Goods Sold | Amount of Contract | Date of Delivery/ End-user's Acceptance | Date of Official Receipt | Bi A) B) C) | dder is Manufactu Supplier Distributor |
|----------------------|----------------------|--------------------|-----------------------|-----------------------|--------------------------------------------------|--------------------------------|----------------------|-------------------------------------------------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Date | | and Signature of | | | | | | |
| | Authoria | zed Representative | | | | | | |

*Instructions:

- a) Cut-off date as of:
 - (i) Up to the day before the deadline of submission of bids.
- b) In the column under "Dates", indicate the dates of Delivery/ End-user's Acceptance and Official Receipt.
- c) "Name of Contract". Indicate here the Nature/ Scope of the Contract for the Procuring Entity to determine the relevance of the entry with the procurement at hand. Example: "Supply and Delivery of Generator Set"

| Statement of: (i) Ongoing Contracts and; (ii) Awarded But Not Yet Started Contracts | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|----------------------|--------------------|----------------------------------------------------------------------|-----------------------|--------------------------------------|-------------------------------------------------------|--|--|--|--|--|
| This is to certify that (company) | | | has the following ongoing and awarded but not yet started contracts: | | | | | | | | |
| Date of the Contract | Contracting Party | Name of Contract | Kind of Goods Sold | Amount of Contract | Value of Outstanding Contracts | Bidder is A) Manufacturer B) Supplier C) Distributor | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Name and Signature of | | | | | | | | | | | |
| Date | Authoriz | zed Representative | | | | | | | | | |

*Instructions:

- a) State <u>all</u> ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:
 - i. The day before the deadline of submission of bids.
- b) If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
- c) The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC) in case an NFCC is submitted as an eligibility document.
- d) "Name of Contract". Indicate here the Nature/ Scope of the Contract for easier tracking of the entries/ representations. Example: "Supply and Delivery of Generator Se

Contract Agreement Form for the Procurement of Goods (Revised)

[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT made the _____ day of _____ 20___ between [name of PROCURING ENTITY] of the Philippines (hereinafter called "the Entity") of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called "the Supplier") of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures in specified currency] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
 - i. Philippine Bidding Documents (PBDs);
 - i. Schedule of Requirements;
 - ii. Technical Specifications;
 - iii. General and Special Conditions of Contract; and
 - iv. Supplemental or Bid Bulletins, if any
 - ii. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- iii. Performance Security;
- iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
- v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

- 3. In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
- 4. The [Name of the procuring entity] agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

[Insert Name and Signature] [Insert Name and Signature]

[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]

for: for:

[Insert Procuring Entity] [Insert Name of Supplier]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

