

PHILIPPINE BIDDING DOCUMENTS

Supply and Delivery of Science & Mathematics Equipment (SME) and Learning Tools & Equipment (LTE) TVL Package for JHS & SHS for FY 2022

(RE-BIDDING)

Government of the Republic of the Philippines



SURIGAO DEL SUR DIVISION

**Sixth Edition
July 2020**

Preface

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

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

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

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

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

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

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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
Department of Education
Caraga Region
SCHOOLS DIVISION OF SURIGAO DEL SUR

Invitation to Bid
2022-174

**SUPPLY AND DELIVERY OF SCIENCE & MATHEMATICS EQUIPMENT (SME) AND LEARNING TOOLS & EQUIPMENT (LTE) TVL PACKAGE FOR JHS & SHS FOR FY 2022
(RE-BIDDING)**

1. The Department of Education - Surigao del Sur Division, through the Government of the Philippines, intends to apply the sum of **Three Million Eight Hundred Forty Thousand Eight Hundred Fourteen Pesos Only (Php 3,840,814.00)** being the ABC to payments under the contract for the Project, **Supply and Delivery of Science & Mathematics Equipment (SME) and Learning Tools & Equipment (LTE) TVL Package for JHS & SHS for FY 2022**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

LOT	AREA OF DELIVERY	PARTICULARS	ABC (Php)	Amount of Bidding Documents
A	See Distribution List under Annex A	Science & Mathematics Equipment (SME) Package Package Details see Annex A Technical Specifications see Annex C	₱3,309,900.00	₱5,000.00
B	See Distribution List under Annex B	Learning Tools & Equipment (LTE) Package for Technical-Vocational Livelihood Package Details see Annex B Technical Specifications see Annex D	₱530,914.00	₱1,000.00
TOTAL			₱3,840,814.00	

2. The Department of Education - Surigao del Sur Division now invites bids for the above Procurement Project. Delivery of the Goods is required within **Forty-Five (45) calendar days**. Bidders should have completed, within **five (5) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary pass/fail criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, otherwise known as the Government Procurement Reform Act .
4. Prospective Bidders may obtain further information from DepEd Surigao del Sur Division - BAC Secretariat and inspect the Bidding Documents at the address given below during office hours from 8:00 a.m. to 5:00 p.m.
5. A complete set of Bidding Documents may be acquired by interested Bidders from **November 22, 2022 to December 13, 2022** from the given address and website below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount mentioned above.

6. The Department of Education - Surigao del Sur Division will hold a Pre-Bid Conference on **December 1, 2022 (Thursday) 10:00 a.m.** at the **3rd Floor - Conference Hall, Schools Division Office, Balilahan, Mabua, Tandag City** and/or through video conferencing or webcasting via Microsoft Teams at <https://tinyurl.com/PreBid-SME-LTE-ICT> which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the **Procurement Section - DepEd Surigao del Sur Division, Balilahan, Mabua, Tandag City** on or before **December 13, 2022 (Tuesday) 10:00 a.m.** 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 **December 13, 2022 (Tuesday) 10:00 a.m.** at the **3rd Floor - Conference Hall, Schools Division Office, Balilahan, Mabua, Tandag City**. Bids will be opened in the presence of the bidders representatives who choose to attend the activity and through video conferencing or webcasting via Microsoft Teams at <https://tinyurl.com/Bid-SME-LTE-ICT> which shall be open to prospective bidders.
10. The Department of Education Surigao del Sur Division 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:

*BAC SECRETARIAT
DepEd Surigao del Sur
Balilahan, Mabua, Tandag City
surigaodelsur.procurement@deped.gov.ph
086-211-3560
depedsurigaodelsur.com*
12. You may visit the following websites to download the bidding documents:
www.philgeps.gov.ph

November 21, 2022

GILBERT L. GAYRAMA, PhD, CESE
BAC Chairperson

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

- 1.1 The Department of Education Surigao del Sur Division wishes to receive Bids for the ***Supply and Delivery of Science & Mathematics Equipment (SME) and Learning Tools & Equipment (LTE) TVL Package for JHS & SHS for FY 2022*** with Project ID. No.: **2022-174**.
- 1.2 The Procurement Project is composed of **Two (2) Lots**, 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 *2022 in the amount of Three Million Eight Hundred Forty Thousand Eight Hundred Fourteen Pesos Only (P3,840,814.00)*.
- 2.2. The source of funding is the **General Appropriations Act (GAA) 2022**

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA s CPI, must be at least equivalent to:
- a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.
 - 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:
 - 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 Procuring Entity has prescribed that Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a Pre-bid Conference for this Project on **December 1, 2022 (Thursday) 10:00 a.m.** at 3rd Floor - Conference Hall, Schools Division Office, Balilahan, Mabua, Tandag City and/or through video conferencing/webcasting via Microsoft Teams at <https://tinyurl.com/PreBid-SME-LTE-ICT> 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 *five (5) years* prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

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

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);

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

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 Philippine Pesos.

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration¹ 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 *120 calendar days*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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

¹ 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.

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

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated *passed*, using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.

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

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.
- 21.2. 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.
- 21.3. 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.
- 21.4. 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 Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> a. <i>Related to Supply and Delivery of Science & Mathematics Equipment (SME) and Learning Tools & Equipment (LTE) TVL</i> b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.
7.1	<i>Subcontracting is not allowed</i>
12	The price of the Goods shall be quoted in Philippine Peso and to be delivered to <i>identified Districts of Surigao del Sur Division</i>
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a. The amount of not less than 2% of ABC if bid security is in cash, cashier s/manager s check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than 5% of ABC if bid security is in Surety Bond.
15	<p>Each Bidder shall submit one (1) originally signed certified true copy of the original document and two (2) duplicate copies of the first and second components of its bid. <i>Bidder must arrange each bid documents into sections with tabs properly labeled separating each document according to the provided checklist.</i></p>
19.3	No Further Instruction
20.1	<p>The bidder with the Lowest Calculated Bid shall submit ALL of the following post-qualification requirements:</p> <ol style="list-style-type: none"> 1. Photocopy/ies of Contract/s or Purchase Order/s of one of the following: <ul style="list-style-type: none"> i. A single contract that is similar to the project and whose value must be at least fifty percent (50%) of the ABC to be bid; OR ii. At least two (2) similar contracts: <ul style="list-style-type: none"> a) The aggregate contract amounts should be equivalent to at least fifty percent (50%) of the ABC to be bid; b) The largest of these contracts must be equivalent to at least half of the percentage of the ABC as required above. 2. The corresponding proof of completion, which could either be: <ul style="list-style-type: none"> i. Certificate of Final Acceptance/Completion from the bidder s client/s or ii. Official Receipt/s or Sales Invoice/s of the bidder covering the full amount of the contracts

	<p>3. Latest Income and Business Tax Returns, filed and paid through the Electronic Filing and Payments System (EFPS), consisting of the following:</p>
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- i. Latest Income Tax Return with proof of payment; and
- ii. VAT Returns (Form 2550M and 2550Q) or Percentage Tax Returns (2551M) with proof of payment within the last six (6) months preceding the date of bid submission.

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**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184. *{[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 VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

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

GCC Clause	
1	<p>Delivery and Documents</p> <p>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:</p> <p>The delivery terms applicable to the Contract are DDP delivered in <i>identified districts of DepEd Surigao del Sur</i>. In accordance with INCOTERMS.</p> <p>The delivery terms applicable to this Contract are delivered <i>identified districts of DepEd Surigao del Sur</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>Incidental Services</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> 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. <p>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.</p>

	<p>Packaging</p> <p>The Supplier shall provide such packaging of the Goods as it 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.</p> <p>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.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity: DEPARTMENT OF EDUCATION SURIGAO DEL SUR DIVISION Name of District/School: _____ Name of the Supplier: _____ Contract Description: Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications</p> <p>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.</p>
	<p>Transportation</p> <p>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.</p> <p>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.</p>

	<p>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.</p> <p>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.</p> <p>Intellectual Property Rights</p> <p>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.</p>
2.2	<i>Payment shall be made after full delivery of the items</i>
4	Inspection will be conducted upon delivery.

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.

Lot	Description	Quantity	Total	Delivery Details
A	Science & Mathematics Equipment (SME) Package Package Details see Annex A Technical Specifications see Annex C	51 Packages	₱3,002,616.00	Within 45 calendar days from receipt of Notice to Proceed Goods shall be delivered to identified districts of DepEd Surigao del Sur (please refer to distribution lists under Annexes A & B)
B	Learning Tools & Equipment (LTE) Package for Technical-Vocational Livelihood Package Details see Annex B Technical Specifications see Annex D	1 Package	₱530,914.00	

ANNEX A - PACKAGE DETAILS
SCIENCE & MATHEMATICS EQUIPMENT (SME)

ITEM NO.	UNIT	DESCRIPTION	QTY.	UNIT COST	TOTAL COST
1	pcs	Meterstick, plastic	20	161.38	3,227.60
2	pcs	Protractor (for student)	40	39.35	1,574.00
3	pcs	Ruler, Plastic, 12 inches or 30 cm	40	33.95	1,358.00
4	pcs	Tape Measure, 1.5 meters	20	84.85	1,697.00
5	pcs	Flask, Volumetric, borosilicate 250 mL	5	160.84	804.20
6	pcs	Graduated Cylinder, borosilicate, 10 mL	5	95.76	478.80
7	pcs	Graduated Cylinder, borosilicate, 100 mL	5	129.29	646.45
8	pcs	pH Meter, hand-held	5	1,751.24	8,756.20
9	pcs	Thermometer, Laboratory type, Alcohol, -20°C to 110°C	5	74.70	373.50
10	pack	Universal pH Paper, pH 0-14, 100 strips/pack	1	97.31	97.31
11	pcs	Beaker, borosilicate, 1000 mL	5	383.60	1,918.00
12	pcs	Dish, Petri	5	191.00	955.00
13	pcs	Beaker, borosilicate, 250 mL	5	43.96	219.80
14	pcs	Beaker, borosilicate, 500 mL	5	48.28	241.40
15	pcs	Burner, Alcohol, glass, 150 ml. Capacity	5	48.28	241.40
16	pcs	Mortar and Pestle, porcelain, 150 mL.	5	162.06	810.30
17	pcs	Rubber Stopper # 6 for Erlenmeyer Flask (narrow-mouth) 250 mL, 1 hole	5	64.48	322.40
18	pcs	Test tube brush	5	59.08	295.40
19	pcs	Test Tube, borosilicate, Ø 16 mm x 150 mm long	50	31.16	1,558.00
20	pcs	Vial, screw-neck, 50 mL. (with screw-type plastic cap)	25	75.82	1,895.50
21	pcs	Watch Glass, Ø 90 mm	5	75.28	376.40
22	packs	Lens Paper, 50's/pack	5	63.28	316.40
23	sheets	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905	10	35.30	353.00
24	spool	Nichrome wire. 0.4, 100 ft (1 spool per package = 1.1 oz minimum with spool)	1	273.73	273.73
25	pcs	Triangular File, fine, 6-inch long, with plastic handle	5	243.57	1,217.85
26	units	Globe, Terrestrial	5	954.48	4,772.40
27	pcs	Musical Instrument (Miniature Guitar)	5	974.80	4,874.00
28	set	Set of Tools	1	760.49	760.49
		Set of Tools: Ball Peen Hammer, handle length is 11-inch, 350g approx. weight, 1 pc/set			

		Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set			
		Set of Tools: Mechanical Wire Cutter and Pliers, 6.5-inch, 1 pair/set			
		Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set			
		Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set			
		Set of Tools: Screwdriver, phillips, 6-inch, 1 pc/set			
		Set of Tools: Soldering Iron, 60 watts, 1 pc/set			
		Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 lb/spool, 1 spool/set			
		Set of Tools: Soldering Paste, 50 grams/can, 1 can/set			
		Set of Tools: Tweezers, stainless steel, with curved tips, 6.5-inch long, 1 pair/set			
29	bxs	Glass Cover Slips, 100's/box	10	43.33	433.30
30	bxs	Glass Slides, 72's/box	10	90.50	905.00
31	pcs	Compass, Magnetic	5	99.89	499.45
32	pcs	Pipette, Beral, 1 mL	50	25.76	1,288.00
33	pairs	Gloves, Hand, super nitrile	5	95.00	475.00
34	pcs	Flashlight with incandescent bulb	1	255.47	255.47
35	unit	Lamp, Desk, Heavy Base	5	523.40	2,617.00
36	pcs	Calculator, Scientific	40	432.89	17,315.60
37	pcs	Stopwatch, digital	5	139.33	696.65
Total	units	Science and Mathematics Equipment (SME) Package	51	64,900.00	3,309,900.00

ANNEX A - DISTRIBUTION LIST
SCIENCE & MATHEMATICS EQUIPMENT (SME)

Recipient Schools	Place of Delivery	Address	No. of Packages (Grade 7-10)
Javier National High School	Barobo I	Purok 1A, Poblacion, Barobo, Surigao del Sur	1
Gamut National High School (Barobo)			2
Unidad National High School	Cagwait	Aras-asan, Cagwait, Surigao del Sur	1
Jose Sanvictores Sr. National School Annex			1
Cantilan National High School	Cantilan I	La Purisima St., Purok 3, Magosilom, Cantilan, Surigao del Sur	2
Parang National High School			1
Carmen National Agricultural High School	Carmen	Poblacion, Carmen, Surigao del Sur	1
Gacub Atad S. Iligan Tribal National High School			1
Adlay National High School	Carrascal	Baybay, Carrascal, Surigao del Sur	1
Carrascal National High School			1
Burgos National High School	Cortes	Poblacion, Cortes, Surigao del Sur	1

Felisberto Verano National High School			1
Matho Integrated School			1
Tidman National High School	Hinatuan South	P-1, Lacasa, Hinatuan, Surigao del Sur	1
Florita Herrera-Irizari National High School	Lanuza	Vete St., Zone 4, Lanuza, Surigao del Sur	1
Bunga Integrated School			1
Anibongan National High School	Liangá	Poblacion, Lianga, Surigao del Sur	1
Lianga National Comprehensive National High School			1
St. Christine National High School			1
R. Moreno Integrated School			1
San Isidro Integrated School			1
Barcelona National High School	Lingig I	Poblacion, Lingig, Surigao del Sur	1
Lingig National High School			2

M.K.Yusingco National High School			1
Napanpanan Integrated School			1
Madrid National High School	Madrid	Urbiztondo St. Quirino, Madrid, Surigao del Sur	2
Marihatag National Agricultural High School			1
Cresencio S. Lago National High School	Marihatag	Poblacion, Marihatag, Surigao del Sur	1
San Pedro Integrated School			1
Salvacion National High School			1
Sto. Niño National High School	San Agustin	Poblacion, San Agustin, Surigao del Sur	1
Maurillo Avila Integrated School			1
San Miguel National High School			1
Libas Sud Integrated School	San Miguel I	Poblacion, San Miguel, Surigao del Sur	1
Tagbina National High School	Tagbina I	Poblacion, Tagbina, Surigao del Sur	1

Victoria Integrated School	Tago I	Poblacion, Purisima, Tago, Surigao del Sur	1
Purisima National High School			1
Alba Integrated School			1
Cambatong National High School	Hinatuan North	Brgy. Maharlika, Hinatuan, Surigao del Sur	1
Tambis National High School	Barobo II	P-3, Tambis, Barobo, Surigao del Sur	1
Rizal National High School			1
San Miguel National Comprehensive High School	San Miguel II	Tina, San Miguel, Surigao del Sur	1
Sagbayan National High School			1
Siagao Integrated School			1
Clarence Ty Pimentel National High School	Tago II	Gamut, Tago, Surigao del Sur	1
Barobo National High School	Barobo I	Purok 1A, Poblacion, Barobo, Surigao del Sur	1
Rajah Cabunguan IS	Lingig II	Sitio Mahogany, Tagpupuran, Lingig, Surigao del Sur	1

ANNEX B PACKAGE DETAILS
LEARNING TOOLS & EQUIPMENT (LTE)
FOR TECHNICAL-VOCATIONAL LIVELIHOOD

Stock No.	Unit	Item Description	Quantity	Unit Cost	Total Cost
1	unit	24MP DSLR Camera	1	35,000.00	35,000.00
2	unit	Catheters	100	118.00	11,800.00
3	unit	Dryer-Sterilizer	1	6000.00	6,000.00
4	unit	Sow Dummy	1	10,500.00	10,500.00
5	unit	Fire Extinguisher (with Contents)	1	2,199.00	2,199.00
6	unit	First Aid Kit	1	245.00	245.00
7	unit	Generator Set	1	11,890.00	11,890.00
8	unit	Laboratory Gown	12	300.00	3,600.00
9	unit	Microscope	4	3,900.00	15,600.00
10	unit	Personal Protective Paraphernalia (Scrub Suit)	12	800.00	9,600.00
11	unit	Powder free vinyl gloves	12	178.00	2,136.00
12	unit	Power sprayer	1	2,050.00	2,050.00
13	unit	Rubber boots	12	330.00	3,960.00
14	unit	Sand Bag	1	50.00	50.00
15	unit	Semen transport bag	1	150.00	150.00
16	unit	Shovel	1	315.00	315.00
17	unit	Training Bag for Animal Production	12	1,500.00	18,000.00
18	unit	White Board	1	1,299.00	1,299.00
19	unit	Allen wrench	10	281.00	2,810.00
20	unit	Anti-static devise (Anti-static wrist strap)	10	180.00	1,800.00
21	unit	Combination Pliers, 8"	10	111.00	1,110.00

22	unit	Crimping Tool (RJ 11/45)	10	200.00	2,000.00
23	unit	Desoldering Pump	10	189.00	1,890.00
24	unit	Electric Drill, Portable	1	1,087.00	1,087.00
25	unit	External optical drive	2	929.00	1,858.00
26	unit	Flash drive (32GB)	11	200.00	2,200.00
27	unit	Flashlight, head-mounted	5	232.00	1,160.00
28	unit	Hub/Switch	10	800.00	8,000.00
29	units	LAN cable tester	5	200.00	1,000.00
30	units	Long Nose Pliers, 8"	10	180.00	1,800.00
31	units	Multimeter, digital	10	600.00	6,000.00
32	units	Patch panel (48 ports)	20	2,450.00	49,000.00
33	units	PC Video camera	1	800.00	800.00
34	units	Phillip's screwdriver, 8" insulated	10	232.00	2,320.00
35	units	Precision Screwdriver Set	5	253.00	1,265.00
36	units	Soldering iron,40-60w, adjustable	10	210.00	2,100.00
37	units	Standard screwdriver (Flat),8" insulated	10	136.00	1,360.00
38	units	Uninterruptible Power Supply (UPS)	10	1,249.00	12,490.00
39	units	USB external HD	1	2,355.00	2,355.00
40	units	Wire stripper	5	89.00	445.00
41	units	Wireless Access point	10	1,349.00	13,490.00
42	units	Working table	10	1,288.00	12,880.00
43	units	Blenders	3	1,500.00	4,500.00
44	units	Brix refractometer	2	750.00	1,500.00
45	units	Cap sealer (assorted sizes)	2	300.00	600.00
46	units	Food Processor set, with accessories (5 blade attachments: slicer blade,	5	4,500.00	22,500.00

		large shredder, fine shredder, fries slicer, chopping and dough blades)			
47	units	Headspace gauge	2	3,850.00	7,700.00
48	units	Laboratory scale cabinet drier (160L-1428L cap, dimension 450x450x1010 mm, 220 V)	1	30,000.00	30,000.00
49	units	Measuring cup for liquid, 500 ml	5	250.00	1,250.00
50	units	Meat Grinder (heavy duty multifunction)	2	2,500.00	5,000.00
51	units	Mixing bowl, stainless steel	15	150.00	2,250.00
52	units	Poly/temperature sealer (heat gun 2000w)	5	1,200.00	6,000.00
53	units	Pressure cooker (heavy duty. 41.5 qts, 49Hx57Wx46D cm)	2	40,000.00	80,000.00
54	units	Salinometer (with built-in automatic temperature compensation ATC	2	1500.00	3,000.00
55	units	Smoke house	1	42,000.00	42,000.00
56	units	Smoking Tray	5	200.00	1,000.00
57	units	Soaking container (100L cap plastic container)	5	1,000.00	5,000.00
58	units	Steamer, big	2	1,500.00	3,000.00
59	units	Stove with gas tank	2	5,000.00	10,000.00
60	units	Stuffer (aluminum alloy, 21b cap, size 27x12x13 cm)	1	1,500.00	1,500.00
61	units	Trolley (fordable platform type, 175 kg cap	1	1,500.00	1,500.00
62	units	Vacuum pack machine (chamber dimension 290Lx390Wx50H mm, sealing length 260 mm, 300 watts	1	28,000.00	28,000.00
63	units	Weighing scale, 10 kilograms, dial type	5	1,000.00	5,000.00
64	units	Weighing scale, 50 kilograms	1	4,000.00	4,000.00

ANNEX B DISTRIBUTION LIST
LEARNING TOOLS & EQUIPMENT (LTE)
FOR TECHNICAL-VOCATIONAL LIVELIHOOD

Stock No.	Recipient Schools	Place of Delivery	Address
1 - 18	Gamut National High School (Barobo)	Barobo I District Office	Purok 1A, Poblacion, Barobo, Surigao del Sur
19 - 42	Barobo National High School		
43 - 64	Barcelona National High School	Lingig II District Office	Sitio Mahogany, Tagpupuran, Lingig, Surigao del Sur

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

Annex "C" - Technical Specifications for SME

General Specification

1. Must be branded.
2. Must be free from toxic materials.
3. Must be properly packed.
4. Must be accompanied by a User's Manual written in English with correct grammar, spelling, and punctuation marks.
5. "Imported products should pass international quality control product standards and have international quality control product markings such as ASQC, AFCIQ, ASQ, DGQ, EOQC, IQA, CE, ISO, ASTM, and the likes, while locally made products (Philippine-made) should pass the local quality control product standards and bear the PS mark."

Detailed Specification

DESCRIPTION	
Compass, Magnetic	<p>Functional Specifications: Used to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field</p> <p>Performance Specifications: Should be able to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Outside Diameter: 48 mm to 52 mm 2. Needle mounted in an Aluminum case with clear, scratch-free plastic or glass face 3. Graduated dial marked in cardinal points (North, South, West, East, Northwest, Northeast, Southwest, and Southeast). 4. Must be branded
Flashlight with incandescent bulb	<p>Functional Specifications: Used to provide illumination on the surface of a globe model</p> <p>Performance Specifications: Should be able to provide illumination on the surface of a globe model</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Powered by two (2) 1.5 volts size D dry cells; Capacity: 3 volts 2. 7" long minimum 3. slide switch 5. 35 feet beam distance

DESCRIPTION	
	<p>6. Body: high impact resin construction</p> <p>7. Must be branded</p>
Globe, Terrestrial	<p>Functional Specifications: Used to represent the earth in three dimensions and the locations and sizes of land masses and waterbodies in scale accuracy</p> <p>Performance Specifications: Should be able to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Primarily used as a reference to geographical & political information Globe diameter: minimum of 12 inches. 2. Shows the following: <ol style="list-style-type: none"> (a) All continents, countries with their capitals, and important cities and places (b) Updated with newly established countries, or re-named countries and cities. (c) Illustrates the flow and directions of ocean currents (d) Lines of Latitudes (0°to 90°), graduated both in Northern and Southern Latitudes and Longitudes (0° to 180°), graduated both in Eastern and Western Longitudes (e) International Date Line, Arctic Circle, Tropic of Cancer, Tropic of Capricorn and Antarctic Circle (f) Lines of Equator and Prime Meridian (g) Names of mountain, mountain ranges, volcano, ocean floors, gulfs, seas and lakes (h) Names of continents, seas and country boundaries should be according to international standard. (i) Philippine territory emphasizing the "West Philippine Sea" as one of the Philippine territorial sea boundaries. (j) The Nine Dashed Line should not appear. 3. The globe which is made of plastic is mounted on a plastic meridian ring (C-shape) with movable magnifier. 4. The base stand is made of hard/tough plastic. 5. Must be branded
Lamp, Desk, Heavy Base	<p>Functional Specifications: Used to provide heat and illumination on specimen under study</p> <p>Performance Specifications: Should be able to provide heat and illumination on specimen under study</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Heavy base, able to stand by itself 2. 35 inches length minimum 3. Easily adjustable to direct the light wherever you need it the most 4. With On and Off Switch 5. Power source: AC 220 volts line; included with 60-100 Watts Yellow Light bulb 6. Capacity: 100 watts

DESCRIPTION	
	<p>7. Preferable ungrounded plug (If the plug is grounded, an adapter should include in the item.)</p> <p>8. With English User's Manual that includes Operation Guide</p> <p>9. Should be branded</p>
Beaker, Plastic 500 mL	<p>Functional Specifications: Used to contain liquids and allow liquids to flow thru spout when overfilled</p> <p>Performance Specifications: Should be able to contain liquids and allow liquids to flow thru spout when overfilled</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Material: polypropylene plastic 2. Capacity: 500 mL Increments: 10 mL 3. Height: 12 cm 4. Diameter: 8 cm 5. Must have container box. 6. Must be free from any toxic material.
Dry Cell, 9 volts	<p>Functional Specifications: Used to provide 9 volts DC power to digital multimeter</p> <p>Performance Specifications: Should be able to provide 9 volts DC power to digital multi meter</p> <p>Design Specifications: 1. industry standard 9 volts dry cell</p>
Musical Instrument (Miniature Guitar)	<p>Functional Specifications: Used to demonstrate musical application of standing waves</p> <p>Performance Specifications: Should be able to demonstrate musical application of standing waves</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Mini acoustic type, half-size guitar, any color, surface finish: varnish 2. Made of good quality wood without sign of warp 3. Minimum dimensions: Overall length: 33 inches, Width: 12 inches, Depth: 3 1/2 inches 4. Standard guitar steel strings (Nos. 1-6), 18 fret minimum
SET OF TOOLS:	
Set of Tools: Ball Peen Hammer, handle length is 11", 350g approx. weight, 1 pc/set	<p>Functional Specifications: Used to peen dent surfaces in metals</p> <p>Performance Specifications: Should be able to to peen dent surfaces in metals</p> <p>Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc. /set</p>
Set of Tools: Long Nose Pliers, 6", 1	<p>Functional Specifications: Used to bend tiny solid wire connectors</p> <p>Performance Specifications: Should be able to bend tiny solid wire connectors</p>

DESCRIPTION	
pair/set	<p>Design Specifications: Long Nose Pliers with side cutter, 6 inches long,chrome vanadium material, 1 pair/set</p>
Set of Tools: Mechanical Wire Cutter and Pliers, 6.5", 1 pair/set	<p>Functional Specifications: Used to bend large wires</p> <p>Performance Specifications: Should be able to bend large wires</p> <p>Design Specifications: Mechanical-Wire Cutter and Pliers, 6 1/2 inches,chrome vanadium material, 1 pair/set</p>
Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set	<p>Functional Specifications: Used to drive precision screws</p> <p>Performance Specifications: Should be able to to drive precisionscrews</p> <p>Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips, 3flats)/set, with plastic casing, 1 set</p>
Set of Tools: Screwdriver, flat, 6", 1 pc/set	<p>Functional Specifications: Used to drive flat head screws</p> <p>Performance Specifications: Should be able to drive flat head screws</p> <p>Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 incheslong, chrome vanadium material, 1 pc. /set;</p>
Set of Tools: Screwdriver, phillips, 6", 1 pc/set	<p>Functional Specifications: Used to drive phillips type screws</p> <p>Performance Specifications: Should be able to drive phillips typescrews</p> <p>Design Specifications: Screwdriver, Phillips, Point size blade #3 x 6"long, chrome vanadium material, 1 pc/set;</p>
Set of Tools: Soldering Iron, 60 watts, 1 pc/set	<p>Functional Specifications: Used to heat electrical contacts for permanent joints</p> <p>Performance Specifications: Should be able to heat electricalcontacts for permanent joints</p> <p>Design Specifications: Soldering Iron, 60 watts, small type, woodenhandle, 1 pc. /set;</p>
Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 lb/spool, 1 spool/set	<p>Functional Specifications: Used to provided permanent joint for different electrical components</p> <p>Performance Specifications: Used to provided permanent joint fordifferent electrical components</p> <p>Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight:1 lb./spool, 1 spool/set</p>
Set of Tools: Soldering	<p>Functional Specifications: Used to provide better adhesion of solder lead to electrical joints</p>

DESCRIPTION	
Paste, 50 grams/can, 1 can/set	<p>Performance Specifications: Used to provide better adhesion of solderlead to electrical joints</p> <p>Design Specifications: Soldering Paste, all-purpose flux, non-corrosive,50 grams/can, 1 can/set;</p>
Set of Tools: Tweezers, stainless steel, with curved tips, 6.5" long, 1 pair/set	<p>Functional Specifications: Used to hold and pick tiny electronics components</p> <p>Performance Specifications: Used to hold and pick tiny electronicscomponents</p> <p>Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2inches long, 1 pair/set;</p>
Beaker, borosilicate, 1000 mL	<p>Functional Specifications: Used to serve as container for mixing and for heating liquids.</p> <p>Performance Specifications: Must be able to serve as container formixing and for heating liquids.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1.Griffin type, borosilicate, transparent, bubble-free glass 2. Shape: a cylindrical container with flat bottom 3.Thickness range: 1.5 mm to 2.0 mm 4. Permanent white graduations, with white enamel marking spot 5. Features an easy-pour spout 6. Capacity: 1000 mL; ± 10% enameled onto the glass 7. Single graduated metric scale 8. Graduation starts at 200 mL in 100 mL increments 9. Height range: 140 mm to 160 mm 10. Outside diameter: 100 mm to 110 mm 11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box
Dish, Petri	<p>Functional Specifications: Used to secure the specimen under study.</p> <p>Performance Specifications: Must be able to secure the specimenunder study.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Reusable, borosilicate, circular glass with beaded edge; 2. Bubble-free, plain surface 3. Outside Diameter of Cover: 100 mm±2 mm; 4. Outside Diameter of Dish: 92 mm ± 2 mm; 5. Overall height with cover (as assembled): 20 mm ± 2 mm 6. Glass thickness range: 2 mm to 2.2 mm 7. There must be no cracks and sharp edges 8. Safely packed in a compartmentalized box
	<p>Functional Specifications: Used to secure the wet mount sample specimen.</p>

DESCRIPTION	
Glass Cover Slips, 100's/box	<p>Performance Specifications: Must be able to secure the wet mounted sample specimen.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Pre-cleaned cover glasses and not sticking from each other 2. Material: Transparent glass 3. Quantity: 100's/small plastic box 4. Dimension: 22 mm x 22 mm square 5. Thickness: 0.13 mm - 0.17 mm 6. There shall be no chipped edges 7. Safely packed in a plastic box
Glass Slides, 72's/box	<p>Functional Specifications: Used to contain the specimen for examination under the microscope.</p> <p>Performance Specifications: Must be able to accommodate the specimen subject for examination under the microscope.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Clear, flat glass; free from moisture, dirt, and film; 2. No color, no frost and no chipped edges 3. Dimension: 75 mm (± 1 mm) x 25 mm (± 1 mm); 4. Thickness: 1.1 mm (± 0.1 mm) 5. No sharp edges and pointed corners 6. Packed in a box containing 72 slides with thin paper sheets in between them
Pipette, Beral, 1 mL	<p>Functional Specifications: Used to transfer/dispense liquid samples.</p> <p>Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. One-piece pipette, made from flexible soft non-toxic plastic that has a protuberance on top that serves as liquid retention chamber 2. Capacity: 1 mL in 0.25 mL grad interval 3. No rubber head 4. Total length range: 140 mm - 150 mm 5. With molded graduations
	<p>Functional Specifications: Used to show mathematical computations.</p> <p>Performance Specifications: Must be able to show correct mathematical calculations using its built-in functions/formula.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Display: LCD, 2-line(s) X 10 characters (minimum), stably shows input-expressions/equation, calculation result, and various indicators; 2. Built-in functions not less than 240 inclusion of the following:

DESCRIPTION	
Calculator, Scientific	<p>a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, radian (including conversion of the mentioned Basic Calculations);</p> <p>b) Memory calculation, Logarithm and Hyperbolic functions;</p> <p>c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and</p> <p>d) Trigonometric functions: sin, cos, tan, sin⁻¹, cos⁻¹, tan⁻¹;</p> <p>3. Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operates as such correspondingly;</p> <p>4. Power requirement: two way dual (battery, built-in solar system), the unit consistently operational after replacing the battery for three trials, its solar system powers the unit normally in a well-lit room without the battery;</p> <p>5. Brand must be established in providing quality products for five (5) years and up.</p>
Meterstick, plastic	<p>Functional Specifications: Used to measure length.</p> <p>Performance Specifications: Must be able to measure length of objects in flat surfaces up to 1000mm in Metric and 39.37" in English standards of measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Material: Plastic; 2. Thickness: 6 mm (minimum); 3. Width: 24 mm (minimum); 4. Length: 1,000 mm; 5. The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions; 6. The back is scaled in inches, numbered in every inch with 1/8 inch divisions; 7. The numbers and division lines are in dark color; 8. Must be straight and flat; and free from toxic materials; 9. Edges and Surfaces should be smooth and even; 10. Comes with plastic jacket; 11. Standard abbreviation of the measurement unit/s must be followed; and
Protractor, student-type	<p>Functional Specifications: Used to measure angles in degrees.</p> <p>Performance Specifications: Must be able to draw/construct and measure angles and arcs up to 180°.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Protractor, student-type, plastic, transparent, semi-circular, 180°; 2. Ø150mm (or 75mm radius), 1mm thick (minimum); 3. Angular graduations are in degrees, from 0° to 180°. With two (2) set of numerals, one reading clockwise and the other reading counterclockwise; 4. Linear graduations are in millimeters, from 0 to 100mm; 5. With a hole at vertex point enough for a fine string to pass through it;

DESCRIPTION	
	<p>6. Plastic Surface Finish: Smooth, clear, and free from scratches;</p> <p>7. It must be horizontally level when laid flat on a table - no warping;</p> <p>8. Comes with a plastic case; and</p>
Ruler, Plastic, 12 inches/30 cm	<p>Functional Specifications: Used to measure length and draw straight lines</p> <p>Performance Specifications: Must be able to measure length of objects in flat surfaces up to 30cm in Metric and 12" in English standards of measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum); 2. Approximate Width x Length: 28 mm x 314 mm; 3. Graduations: Metric graduations on one side while English graduations on the other side: <ul style="list-style-type: none"> *Metric graduations are in centimeters, from 0 cm to 30 cm, with every cm subdivided by 10. *English graduations are in inches, from 0 inches to 12 inches, with every inch subdivided by 16. 4. Clear, readable black, non-groove permanent prints (will not fade and cannot be scratched off); 5. Bendable up to U-shape when held at both ends; and 6. The item shall be free from toxic materials.
Stopwatch, digital	<p>Functional Specifications: Used to show time elapse in hours, minutes, seconds.</p> <p>Performance Specifications: Must be able to show time elapsed in hours, minutes and seconds.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Digital type, water-resistant (5-bar) 2. Start, stop, and re-set operations 3. Display Number: 4mm W x 10mm H 4. Measure Unit: 1/100th of a second 5. Working Range: up to 23hr 59min 59sec 6. Individually and properly packed in a box. 7. Instruction Manual in English 8. Approximate W x H x T: 60mm x 67mm x 20mm 9. Ready to use and comes with extra batteries.
Tape Measure, 1.5 meters	<p>Functional Specifications: Used to quantify the size of an object or the distance between objects</p> <p>Performance Specifications: Must be able to measure size/distance of an object up to 1.5 meters.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Tape Measure, 12 mm width x 1.5 meter long 2. Made of flexible fiberglass fabric with metal end pieces 3. Color: White with black graduation markings

DESCRIPTION	
	<p>4. Graduation: in cm on one side and inches on the other side, smallest graduation in mm, on the opposite side in 1/16 of an inch</p> <p>5. Comes with a plastic case.</p>
Beaker, borosilicate, 100 mL	<p>Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction up to 100 mL capacity and heats them over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid in pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Outside diameter: 50 mm-52 mm b) Height: 70 mm-72 mm c) Thickness: 1.5 mm-2.0 mm 4. Capacity: 100 mL ± 5% etched onto the glass;" 5. Graduation starts at: 20 mL in 10 mL increments. 6. Graduation range: 20 mL to 80 mL 7. With permanent white enamel graduations of approximate volumes, inscriptions 8. With large white marking spot 9. Features an easy-pour spout 10. With single graduated metric scale 11. Can withstand heating up to 200-230°C for normal, standard use service 12. Wrapped in paper, enclosed in bubble wrap, and packed in a compartmentalized box 13. Must be free from breakage, cracks, chipped rims and other defects 14. Comes with a brand, with five (5) years existence in the glass wares industry
	<p>Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom. andwith a small spout (or "beak") to aid pouring

DESCRIPTION	
<p>Beaker, borosilicate, 250 mL</p>	<p>3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: a) Outside Diameter: 68 mm to 70mm b) Height: 90 mm to 92 mm c) Thickness: 1.5 mm to 2.0 mm 4. With permanent white enamel graduations of approximate volumes, inscriptions and markings enmeled onto the glass 5. With large white marking spot 6. Features an easy-pour spout 7. "With double graduated metric scale " 8. Capacity: 250 mL \pm5% etched onto the glass;" 9. With marking graduation to fill: starts at 25 mL in 25mL increments 10. With marking graduation to empty: starts at 0 mL in 25 mL increments 11 Graduation interval: 25 mL 12. Graduation range: 25 mL to 200 mL 13. Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box 14. Can withstand heating up to 200-230°C for normal, standard use service 15. Must be free from breakage, cracks, chipped rims and other defects 16. Comes with a brand of five (5) years existence in the glasswares industry</p>
<p>Beaker, borosilicate, 500 mL</p>	<p>Functional Specifications: a) Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition.</p> <p>Performance Specifications: a) Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition.</p> <p>Design Specifications: 1. Type: Berzellius, tall form 2. Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear, bubble free glass, Berzellius. tall form with the following dimensions: a) Outside Diameter Range :75 mm- 80 mm b) Height range: 136 mm -140 mm c) Thickness :1.5 mm to 2.0 mm 4. Capacity :500 mL; \pm 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot</p>

DESCRIPTION	
	<p>7. With easy pour spout</p> <p>8. Double graduated metric scale</p> <p>9. Marked to fill: Graduation starts at 50 mL in 50 mL increments</p> <p>10. Marked to empty: Graduation starts at 0 mL in 50 mL increments</p> <p>11. Can withstand heating up to 200-230°C for normal, standard useservice</p> <p>12. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box</p> <p>13. Must be free from breakage, cracks, chipped rims and other defects</p> <p>14. Comes with a brand, with five (5) years existence in the glass wares industry</p>
<p>Burner, Alcohol, glass, 150 ml. Capacity</p>	<p>Functional Specifications: Used to produce hot, consistent open flame for slow/gentle heating of glasswares and substances</p> <p>Performance Specifications: Must be able to produce hot, consistent open flame</p> <ul style="list-style-type: none"> a) for slow/gentle heating of glasswares and substances b) can withstand prolonged heating without breaking c) visually determine the identity of an unknown metal or metalloid ionbased on the characteristic color the chemical/salt emits on the Bunsen flame to investigate reactions of ions and apply these in qualitative analysis through an activity, on Flame Test d) bend a glass tubing e) heat,to sterilize, to accelerate, and to trigger chemical reactions, f) for combustion purposes and techniques <p>Design Specifications:</p> <ul style="list-style-type: none"> 1. Shape: A globe-shaped body and flat base (bottom) withthreaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free glasswith the following dimensions <ul style="list-style-type: none"> a) Outside Diameter: 80 mm to 85 mm b) Total height: 100 mm to105 mm 3. Capacity: 150 mL 4. With wick holder permanently attached to a threaded base <ul style="list-style-type: none"> a) Material of wick holder and cover/caps: Nickel- plated brass b) Type of wick holder: Threaded 5. With one (1) pc cotton fiber/strand braided wick perfectly fitted tothe wicktube <ul style="list-style-type: none"> a) Material of wick: Cotton fiber/strand b) Type of wick: Braided c) Length: 7 inches (178 mm) min d) Diameter: 3/16 inches (5-6 mm) 6. With snuff/snap-on cover/cap 7. With ten (10) pc replacement braided cotton fiber/strand wicks 8. Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box 9. Must be free from breakage, cracks, chipped rims and other defects

DESCRIPTION	
	<p>10. Comes with a brand</p>
Cork borer	<p>Functional Specifications: Used to bore or to cut a round hole of six different diameters in a cork/rubber stopper with a steel ramrod/ejectrod pushing the removed cork out of the borer</p> <p>Performance Specifications: Must be able to bore or to cut a round hole of six different diameters in a cork or rubber stopper and removecork out of the borer by pushing it with a steel ramrod/eject rod</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape of cork borer: Long, hollow round rod/tube with sharpened ends 2. Material of tube/rod: Nickel-plated steel borer 3. A set of six (6) different diameter sizes:(4 mm, 4.5 mm, 6 mm, 8 mm, 9.5 mm, 11 mm) 4. Comes with a handles which are individually and permanently numbered (1-6) for easy identification handle <ol style="list-style-type: none"> a) Shape of handle: T-shaped b) Material of handle: Hard plastic c) Finish: Smooth d)Color of handle: Red 5. Includes a ramrod/eject rod pushing the removed cork out of the borer Material of ramrod/eject rod: Steel 6. Packaging: Resealable plastic pouch 7.Comes with a brand
Dish, Evaporating, 75 mL	<p>Functional Specifications: Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leaveresidual chemical solute</p> <p>Performance Specifications: Must be able to contain/hold substances and to demonstrate evaporation, as one of the techniques in separating mixtures, by heating chemical solutions gradually, drivingoff the water to leave residual chemical solute</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Deep form, broad, and wider at the top than bottom andwith round bottom with pouring lip/spout 2. Material: Porcelain, with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 80-82 mm b) Height/depth: 30-34 mm high 3.Capacity: 75 mL 4. With pouring lip/spout 5. Can withstand temperatures up to 1150°C 6. Uniformly glazed inside (except for rim) and partly uniformly glazedoutside except bottom surface. 7. Must be free from breakage, cracks, chipped rims and other defects 8.Wrapped in paper, and packed in a sturdy box 9. Comes with a brand

DESCRIPTION

<p>Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905</p>	<p>Functional Specifications: Used to filter/separate mixtures solids from liquids</p> <p>Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures(solids from liquids)</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Technical use 2. Shape of filter paper: Square 3. Material: Cellulose with the following dimensions: <ol style="list-style-type: none"> a) Length: 580 mm b) Width: 580 mm 4. Color: White to cream 5. Grade: 0905 6. Surface: Creped 7 Initial Filtration Speed: 20 sec (± 1 sec)/10 mL; Flow rate: High 8. Wet strengthened 9. Packed in brown filter paper tube 10. Comes with a brand
<p>Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 mL</p>	<p>Functional Specifications: Used to:</p> <ol style="list-style-type: none"> a) contain/hold a small chemical reaction, b) mix solids and liquids, c)heat substances over a Bunsen/alcohol burner's flame up to over150 °C or d)collect them in a titration/distillation experiment <p>Performance Specifications: Must be able to:</p> <ol style="list-style-type: none"> a) contain/hold a small chemical reaction, b) mixes solids and liquids during chemical reaction, c) heats substances up to 150°C over a Bunsen burner's flame up to250 mL, or d) serves as a reaction vessel in a titration experiment, and to collectdistillate during distillation <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: A conical body, a cylindrical short neck, narrow mouth,with sloping sides, and with a flat bottom 2. Material: Clear, and transparent bubble-free, borosilicate, glass with the following dimensions: <ol style="list-style-type: none"> a) Outside diameter range :80 m -82 mm b) Height range: 130-132 mm c) Thickness range :1.5 to 2.0 mm d) Neck inside diameter range: 28 to 30 mm e) Tolerance: $\pm 6\%$ and other inscriptions enamelled onto the glass 3. Capacity: 250 mL capacity 4. Graduation range: 50 mL-200 mL

DESCRIPTION	
	<p>5. Graduation interval: 25 mL</p> <p>6. Graduation starts at: 50 mL in 25 mL increments</p> <p>7. With uniform wall thickness</p> <p>8. With heavy duty beaded rim</p> <p>9. With permanent durable white enamel graduations with large, white enamel marking spot</p> <p>10. Can withstand heating up to 150°C for normal, standard use service</p> <p>11. Wrapped in paper and individually packed in a compartmentalized box</p> <p>12. Must be free from breakage, cracks, chipped rims and other defects</p> <p>13. Comes with a brand with five (5) years of existence in the glass wares industry</p>
<p>Flask, Volumetric, borosilicate 250 mL</p>	<p>Functional Specifications: Used to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 mL</p> <p>Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 mL</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Class A 2. Shape: A round or pear-shaped bulb, a long thin neck topped by a snap cap and with flat bottom 3. Material of body: Borosilicate, clear, transparent and bubble-free, glass with the following dimensions: <ol style="list-style-type: none"> a) Height: 225 mm b) Outside diameter: 78 mm (approx.) c) Size: 250 mL d) Tolerance: ± 0.12 mL 4. With heavy duty rim 5. Comes with snap cap <ol style="list-style-type: none"> a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap: No. 250 d) Color of snap cap: Blue 6. Must meet ASTM E- 694 for volumetric ware, ASTM E-542 for calibration of volumetric ware and ASTM E-288 for volumetric flasks. 7. Calibrated "to contain" (marked "TC" or "IN") 8. Manufacturer should be accredited by NIST standards or its equivalent to the country of origin to certify that their items are calibrated. 9. Must be free from breakage, cracks, sharp rims and other defects 10. Packaging: Roll up glassware in newspaper and secure with a piece of masking tape and place in a bubble pouch and individually packed in a sturdy box

DESCRIPTION	
	<p>11. Comes with a brand, with five (5) years existence in the glasswares industry</p>
Gloves, Hand, super nitrile	<p>Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes</p> <p>Performance Specifications: Must be able to protect hands against mechanical risks, microorganisms, chemical burns and splashes</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped) , 2. Material: Super nitrile, reusable with the following dimensions: <ol style="list-style-type: none"> a) Length of gloves: 13 inches (330.2 mm) min b) Thickness: 0.38 -0.52 mm (min) 3. Color: Green 4. Size: 8 5. Interior finish: Flocklined interior (acid/solvent resistant) 6. Exterior finish: Smooth 7. Cuff type: Rolled beaded 8. Latex free to suit those with latex allergies 9. Non-slip wear resistant high elasticity, waterproof 10. Puncture resistant 11. With detailed imprints on each glove, on the following: <ol style="list-style-type: none"> a) the glove size/s b) the name of manufacturer c) nitrile, flocklined d) individual manufacturing lot e) with pictograms for certification category requirements CE 0334 (EN420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 12. Individually packed in resealable plastic bag 13. Comes with a brand
Graduated Cylinder, borosilicate, 10 mL	<p>Functional Specifications: Used to measure and to deliver the volume of liquids</p> <p>Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 mL capacity</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions: <ol style="list-style-type: none"> a) Outside Diameter: 13-14 mm b) Height: 177-178 mm c) Thickness range :1.3-1.4 mm d) Tolerance: ± 0.20 4. Capacity: 10 mL 5. Graduation Range: 1 to 10 mL

DESCRIPTION	
	<p>6. Graduation interval: 0.1 mL</p> <p>7. Calibrated to deliver (TD)</p> <p>8. All markings are in permanent white enamel</p> <p>9. With pouring spout</p> <p>10. Single metric scale, with plastic bumper guard</p> <p>11. Glass hexagonal base (non-detachable)</p> <p>12. Manufacturer of the country of origin should issue certificate of calibration for every item.</p> <p>13. Placed in bubble wrap, and packed individually in a compartmentalized box</p> <p>14. Must be free from breakage, cracks and sharp rim</p> <p>15. Comes with a brand, with five (5) years existence in the glasswares industry</p>
Graduated Cylinder, borosilicate, 100 mL	<p>Functional Specifications: Used to measure and to deliver the volume of liquids</p> <p>Performance Specifications:</p> <p>a) Must be able to measure and to deliver the volume of liquids up to 100 mL capacity</p> <p>b) Used as a container to determine the volume of irregularly shaped solids by water displacement</p> <p>Design Specifications:</p> <p>1. Type: Class A</p> <p>2. Shape: Narrow cylindrical container with a small turned-out lip</p> <p>3. Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions:</p> <p>a) Outside Diameter: 29-31 mm</p> <p>b) Height: 254-256 mm</p> <p>c) Thickness range :1.3-1.4 mm</p> <p>d) Tolerance: ± 0.60 mL</p> <p>4. Capacity: 100 mL</p> <p>5. Graduation range: 5 to 100 mL</p> <p>6. Graduation Interval: 1 mL</p> <p>7. Calibrated to deliver (TD)</p> <p>8. All markings are in permanent white enamel</p> <p>9. With pouring spout</p> <p>10. With single graduated metric scale with plastic bumper guard</p> <p>11. With glass hexagonal base (non-detachable)</p> <p>12. Manufacturer of the country of origin should issue certificate of calibration for every item.</p> <p>13. Placed in bubble wrap, and packed individually in a compartmentalized box</p> <p>14. Must be free from breakage, cracks and sharp rim</p> <p>15. Comes with a brand, with five (5) years existence in the glass industry</p>
	<p>Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle</p>

DESCRIPTION

<p>Mortar and Pestle, porcelain, 150 mL.</p>	<p>Performance Specifications: Must be able to pulverize/mash/grind and mixes materials in a mortar using a pestle to demonstrate how particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased.</p> <p>Design Specifications:</p> <p>A. Mortar</p> <ol style="list-style-type: none"> 1. Shape of mortar: Bowl shape, with wide mouth, and with deeply molded, smooth rounded bottom 2. Material for mortar and pestle: Porcelain with the following dimensions: <ol style="list-style-type: none"> a) Outside diameter: 130 mm ± 1 mm b) Depth: 65 mm c) Flat bottom: 87 mm 3. Capacity: 150 mL 4. With pouring lip 5. With unglazed grinding surface (interior) and uniformly glazed exterior <p>B. Pestle:</p> <ol style="list-style-type: none"> 6. Shape of pestle: Cylindrical with bulbous bottom with the following dimensions: <ol style="list-style-type: none"> a) Length range: 133-135 mm and b) Diameter range: 28 - 30 mm dia at its widest point. 7. Material of pestle: A heavy bat-shaped porcelain 8. Uniformly glazed on its handle and rough on opposite end 9. The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box 10. Must be free from breakage, cracks, chipped parts and other defects 11. Comes with a brand
<p>Nichrome wire. 0.4, 100 ft</p>	<p>Functional Specifications: Used as a wire loop and heating element on which a metal salt or solid ionic compound is made to adhere to and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound</p> <p>Performance Specifications: Must be used as a wire loop on which a metal salt or solid ionic compound is made to adhere to, and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound in a laboratory activity, the Flame test</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: <ol style="list-style-type: none"> a) AWG size: 26 b) Diameter: 0.4 mm c) Length: 100 ft 3. Form: Soft, rust-free wire

DESCRIPTION	
	<p>4. Color: Silvery grey</p> <p>5. Resistance: 2.57 ohms/foot</p> <p>6. Annealed soft</p> <p>7. Perfectly tensioned. Zero elongation, scratches, or other flaws.</p> <p>8. Comes in a spool</p> <p>9. Packed in a resealable plastic pouch</p> <p>10. Comes with a brand</p>
pH Meter, hand-held	<p>Functional Specifications: To measure the pH of a substance or solution indicating its acidity, being neutral, or its basicity/alkalinity in 0.1 pH readability</p> <p>Performance Specifications: Must be able to measure the pH of each substance/solution in 0.1 pH readability:</p> <p>a) For an acid: pH 0- pH 6.0</p> <p>b) For basic/alkaline: pH 8.0 to pH 14.0.</p> <p>c) For neutral (distilled water): pH 7.0</p> <p>Design Specifications:</p> <p>1. Type: Portable hand-held digital pen type</p> <p>2. Material: Plastic with the following dimensions:</p> <p>a) Length: 6.2 in (155.45 mm) (min)</p> <p>b) Width: 1.5 in (38.1 mm) (min)</p> <p>c) Height: 1.3 in (33.02 mm) (min)</p> <p>3. With retractable electrode</p> <p>4. Comes with one (1) pc protective cap</p> <p>5. Electrodes extend up to 3.15 (80.01 mm) (min)</p> <p>6. Waterproof</p> <p>7. pH range: pH 0 to pH 14</p> <p>8. Accuracy: ± 0.2 pH</p> <p>9. Features a bold LCD display of pH</p> <p>10. With automatic temperature compensation</p> <p>11. Supplied with accessories:</p> <p>a) One (1) bottle pH 7.0 buffer solution Capacity of pH 7.0 buffersolution: 50 mL</p> <p>b) With one (1) pc calibration screwdriver</p> <p>c) One (1) pc 9V battery</p> <p>d) Packed in hard plastic carry case</p> <p>12. Manufacturer should be accredited by NIST standards or its equivalent to the country of origin to certify that their items are calibrated.</p> <p>13. With User's Manual in English</p> <p>14. With Student Worksheets/Teacher's Manual in English</p> <p>15. For numbers 13-14, the following technical specifications from a-emust be followed:</p>

DESCRIPTION

	<p>a) For Contents List of materials, In Table form</p> <p>b) For User's Manual, Teacher's Guide, Student Worksheets, Instruction Sheets/Assembly Guides, In sentences format</p> <p>i) With sentences grammatically correct and</p> <p>ii) With correct spelling and terminologies, punctuations and others</p> <p>c) In original print, not photocopied</p> <p>d) In colored pictures, drawings/illustrations</p> <p>e) In ten (10) mil laminated keycard that shall contain the actual colored picture of the model including the name: labeled with therequired parts with details as follows</p> <p>i) Paper Size: A4 size, 80 gsm</p> <p>ii) Font: Times New Roman</p> <p>iii) Font size: 12</p> <p>iv) Orientation: Portrait</p> <p>v) Margins on all sides with 2-point width border line</p> <p>vi) Line with arrow head of 1.25 point with width shall point to the specific part being labeled</p> <p>16. Must be free from sharp edges</p> <p>17. Must have a brand</p>
Rubber Stopper # 6 for Erlenmeyer Flask (narrow-mouth) 250 mL, 1 hole	<p>Functional Specifications: Used to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one 1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction .to prevent leaks, hazards and contamination.</p> <p>Performance Specifications: Must be able to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Design Specifications:</p> <ol style="list-style-type: none">1. Shape: Cylindrical with a tapered bottom end2. Material: Premium grade SBR black rubber compound with the following dimensions:<ol style="list-style-type: none">a) Height: 25 mmb) Top Ø: 32 mmc) Bottom Ø: 26 mmd) Hole Ø: 5 mm3. Number of holes: With one (1) hole4. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm5. Hardness: 40 ± 5 Duro6. Packed in resealable plastic bag7. Comes with a brand

DESCRIPTION

<p>Rubber Stopper # 6 for Erlenmeyer Flask (narrow-mouth) 250 mL, 2 holes</p>	<p>Functional Specifications: Used to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Performance Specifications: Must be able to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical with a tapered bottom end 2. Material: Premium grade SBR black rubber compound with the following dimensions: <ol style="list-style-type: none"> a) Height: 25 mm b) Top Ø: 32 mm c) Bottom Ø: 26 mm d) Hole Ø: 5 mm 3. Number of holes: Two (2) holes 4. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm 5. Hardness: 40 ± 5 Duro 6. Packed in resealable plastic bag 7. Comes with a brand
<p>Test tube brush</p>	<p>Functional Specifications: Used to clean test tubes and other small sized glasswares</p> <p>Performance Specifications: Must be able to clean test tubes and other small-sized glasswares with densely filled radial tip and head brush to make complete contact with walls, corners and bottom.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 17-19 mm b) Length: 96-98 mm c) Over-all length: 220-229 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle: Common loop twisted wire 5. With circular loop for hanging 6. Packed in a resealable plastic bag 7. Must be free from sharp metal parts 8. Comes with a brand

DESCRIPTION	
<p>Test tube, Ø 16mm x 150mm long</p>	<p>Functional Specifications: Used to contain/hold a small chemical reaction, to mix small quantities of solids and liquids, and to heat small quantities of substances</p> <p>Performance Specifications: Must be able to contain/hold a small chemical reaction and, mixes solids and liquids, heats small quantity of substances up to more than 100°C over a Bunsen burner's flame</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Fingerlike length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded 'U' shaped bottom 2. Material of test tube: Borosilicate, clear, transparent and bubble-free, glass, with rim with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 16 mm diameter b) Thickness :1.3 -1.4 mm c) Length: 150 mm long 3. Capacity: 20 mL 4. With heavy uniform wall thickness, excellent heat resistance 5. Test tubes must be reusable (not disposable) 6. With large, white enamel marking spot 7. With permanent graduation of approx. volume and inscriptions in high contrast white enamel. 8. Can withstand heating up to 150°C for normal, standard use service 9. Comes with a certification from the manufacturer that the test tube is reusable not disposable 10. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box 11. Must be free from breakage, cracks, chipped rims and other defects 12. Comes with a brand with five (5) years of existence in the glass wares industry
<p>Thermometer, Laboratory type, Alcohol, -20°C to 110°C</p>	<p>Functional Specifications: Used to measure the temperature</p> <p>Performance Specifications: Must measure the temperature, -20° to 110°C</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Alcohol filled, partial immersion thermometer 2. Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center 3. Material: Glass 4. Color: White 5. Non-toxic red-filled thermometer 6. Partial immersion type with immersion line indicator and ring top 7. With precision red alcohol-filled, reinforced bulbs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings; scale never washes out

DESCRIPTION	
	<p>10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions: 13. Range: -20°C to 110°C 14. Division: 1°C 15. Length: 300 mm (minimum) 16. Accuracy: ± 1° C 17. Diameter: 5.8 to 6.2 mm 18. Immersion line: 76 mm 19. Manufacturer of the country of origin should issue certificate of calibration for every item. 20. Must be free from breakage, cracks, chipped and sharp edges and other defects 21. Comes with a brand</p>
<p>Triangular File, fine, 6" long, with plastic handle</p>	<p>Functional Specifications: Used to cut the glass tubing</p> <p>Performance Specifications: Must be able to cut the glass tubing</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth 5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic 7. Packed in a resealable pouch 8. Comes with a brand
<p>Universal pH Paper, pH 0-14, 100 strips/pack</p>	<p>Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base</p> <p>Performance Specifications: Must be used as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided, which corresponds to:</p> <p>a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14. c) For distilled water: pH 7</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: <ol style="list-style-type: none"> a) Length: 69 mm x 6 mm 5. Number of colors in indicator test strip: In four colors to test pH values 6. Number of test strips: 100 pc strips

DESCRIPTION	
	<p>7. Packaging: Clear, transparent box</p> <p>8. Shape of box: Square</p> <p>9. With complete color chart for comparison with the color change to get the pH reading of the sample being tested</p> <p>10. No sharp edges on box</p> <p>11. Measures pH 0-pH 14</p> <p>12. Comes with a brand</p>
Vial, screw-neck, 50 mL. (with screw-type plastic cap)	<p>Functional Specifications: Used to hold/contain/store/mix small quantities of samples/ solutions/ substances up to 50 mL</p> <p>Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 mL</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Wide mouth 2. Shape: Bottle-like shape with a threaded neck, screw cap polypropylene closure and with a flat bottom 3. Material: Borosilicate, clear, transparent, and bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Outside Diameter: 25 mm to 30 mm b) Length: 100 mm to 108 mm 4. Capacity: 50 mL With screw- type plastic cap 5. Shape of neck: Cylindrical, round 6. Neck finish: Continuous thread 7. Cap Color: Black/White 8. Cap Attached: No 9. Cap Material: Polypropylene (plastic) 10. Closure style: Solid top, screw thread cap 11. Neck size: 24-400 12. Cap liner: Foam lined 13. Packed individually in a compartmentalized box 14. Must be free from breakage, cracks, chipped rims and other defects 15. Comes with a brand
Watch Glass, Ø 90 mm	<p>Functional Specifications: Used to:</p> <ol style="list-style-type: none"> a) cover glasswares like beakers b) evaporates solvents in a sample and c) holds/contains liquids and solids prior to heating. <p>Performance Specifications: Must be able to</p> <ol style="list-style-type: none"> a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Circular concave 2. Material: Borosilicate, clear and bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 90 mm ± 1 mm

DESCRIPTION	
	<ul style="list-style-type: none">b) Thickness range: 1.5 mm to 2 mm3. Fire-polished rims/edge.4. Individually wrapped in used newspaper, enclosed in a bubblewrap, and packed in a sturdy box5. Must be free from breakage, cracks, chipped edges and other defects6. Comes with a brand

Annex "D" - Technical Specifications for LTE TVL

General Specification

1. Must be branded.
2. Must be free from toxic materials.
3. Must be properly packed.
4. Must be accompanied by a User's Manual written in English with correct grammar, spelling, and punctuation marks.
5. "Imported products should pass international quality control product standards and have international quality control product markings such as ASQC, AFCIQ, ASQ, DGQ, EOQC, IQA, CE, ISO, ASTM, and the likes, while locally made products (Philippine-made) should pass the local quality control product standards and bear the PS mark."

Detailed Specification

Item Name	TWL Specialization	Functional Specification	Performance Specification	Design Specification:
CAMERA	Artificial Insemination (Swine) NC II			<p>Type: Digital Camera, Screen Size: 2" - 3" Memory Card Type: MicroSD / TF Battery Type: Rechargeable Battery Pack MegaPixel: 10.0 - 20.0MP Optical Zoom: 7.1x - 16x Image Resolution (Video): HD (1280x720) LCD Display: 2.7" TFT LCD Image sensor: 1800 CMOS Sensor Video resolution: 1280x720 HD, 640x480 VGA, 320x240 QVGA Digital zoom: 8X Digital Zoom External Memory: SD card(Up to 32GB) Video resolution: 1280x720 HD, 640x480 VGA, 320x240 QVGA With User's Manual in English which includes: a. a diagram of the parts with their names, b. operating procedures on how to use the equipment, c. safety precautions when using the equipment, d. basic troubleshooting and maintenance procedures.</p>
CATHETERS	Artificial Insemination (Swine) NC II	Use in insemination of swine as a tool in extraction and delivers semen activity	Must be used as a tool for swine insemination such as extraction and delivers semen activity	<p>TYPE: VETERINARY CATHETER MATERIAL: MEDICAL GRADE SILICONE NON TOXIC TRADITIONAL SHAPE OR SPIRAL PIPE-TYPE SHAPE WITH HANDLE LENGTH OF TUBE: 500 mm (minimum) TUBE DIAMETERS: mm (minimum) APPLICATION: SWINE (BOAR AND GILT) WITH INNER TUBE COMES WITH PLASTIC POUCH PACKING</p>
DRYER-STERILIZER	Artificial Insemination (Swine) NC II	Use to sterilize or to destroy micro organisms by bringing into a high temperature and dry to allow the things to be used immediately.	Must be able to sterilize or to destroy micro organisms. Must be able to perform quick drying to allow the things to be used immediately.	<p>Casing material: Stainless steel Chamber dimensions: Width- 350 mm Depth- 280 mm Height- 500 mm Maximum Rated Power- 300 watts Rated voltage- 220/240 VAC/60 Hz Air circulation: Forced air convection from 500C to 250 degrees centigrade Number of shelves- 2 With Electronic control system Includes with User's Guide in English that contains: a. Operating procedure on how to use the equipment b. Safety precaution when using the equipment</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specifications:
DUMMY SOW	Artificial Insemination (Swine) (NC II)	Used for collecting boar semen	Must be able to collect semen while the boar mounts a dummy sow, it avoids size differences between animals and the sows reluctance to support the boars weight until ejaculation is completed.	Size: 80*40*55cm (minimum); Used to: collect the boar semen for artificial insemination
Fire Extinguisher (with contents)	Artificial Insemination (Swine) (NC II)	Used to extinguish or control small fires, often in emergency situations	Must be able to stop or control fires when in used.	1. For Type A, B, C Fire: Dry Chemicals (Monoammonium Phosphate) 2. Portable type 3. Capacity : 5 - 6 lgs 4. Rechargeable Cylinder Metal 5. Working pressure of Cylinder : 400 psi 6. Brass Valve with Pressure Gauge 7. With Rubberized Hose and Aluminum Nozzle Attached 8. With Squeeze lever to discharge and safety pin 10. Painted with Metal Primer and Red Enamel Paint 11. Includes with User's Guide in English that contains: a. Operating procedure on how to use the equipment b. Safety precaution when using the equipment 12.1 year warranty parts and service 13. The item must be branded and have good quality

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
First Aid Kit	Artificial Insemination (Swine) NC II	Treats minor illness on emergency time with availability of First aid kit.	Must be able to treat minor illnesses and injuries for local guiding services.	<p>Type: Emergency case; Body shape: Standard; First Aid Quick Reference Guide, 1pc</p> <p>Sterile Gauze Swab(4 x 12 ply) 100 pcs/pack, 1 pack</p> <p>Adhesive strips/Band-Aid, 50 pcs/pack, 2packs</p> <p>Gloves,disposable,medium size 2 pairs</p> <p>Hypo Allergenic adhesive tape, 5cm x 5cm, 2 rolls</p> <p>Triangular bandage/arm sling, min 90cm x 90cmx 120cm, 2pcs</p> <p>Safety pins, 1 1/4 inches (12 pcs), 1 3/4 inches (12 pcs)</p> <p>Stainless steel bandage scissors, 2pcs</p> <p>Betadine, 60ml, 2-3 years expiration, 2 bottles</p> <p>Dust mask, 2pcs</p> <p>Hand towels or face towels, white color, 6 pcs</p> <p>Gauze bandage, minimum 5cm x 4cm, 2 rolls</p> <p>Antiseptic handwash/germicidal soap, 60 gms, 2pcs</p> <p>Torriquet, 2 pcs</p> <p>Spirit of ammonia, 30ml, 2-3 years expiration, 1 bottle</p> <p>Burn cream ointment, 20g to 30g, 2-3 years expiration, 1 tube</p> <p>Medical tweezers min. 8cm, plastic, 2pcs</p> <p>Plastic bags, releasable, minimum of 24pcs,100mmx80mm,24pcs; 150mmx30mm</p> <p>Cotton balls, 50 balls in a sealed package, 2 packs</p> <p>Hot and Cold pack, reusable, 1 pack</p> <p>Water resistant and sturdy case w/ handle that can accommodate all the listed items.</p> <p>All items shall be branded and have quality Control markings(local/international)</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification
GENERATOR SET	Artificial Insemination (Swine) NC II	Used to provide energy... Serves as the main source of energy or as a supplementary power source.	Must be able to provide electrical energy and serve as supplementary power source.	<p>Generator type Single phase A.C. generator</p> <p>Rated power (KW) 3</p> <p>Frequency (Hz) 50</p> <p>Voltage (A.C) (V) 230</p> <p>Voltage (D.C) (V) 12</p> <p>Current (D.C) (A) 8.3</p> <p>Speed (rpm) 3000</p> <p>Power factor (COSφ) 1</p> <p>Phase type Single phase</p> <p>Number of poles 2</p> <p>Excitation Self-excitation voltage</p> <p>Insulation B</p> <p>Engine model 178E</p> <p>Engine type single-cylinder, vertical, 4-stroke, air cooled, direct injection</p> <p>Output Continuous (KW) 4.40 (5.9 HP)</p> <p>Output Maximum (KW) 4.9 (6.6 HP)</p> <p>Bore x Stroke (mm) 78 x 62</p> <p>Displacement (cc) 296 cc</p> <p>Cooling system Forced air cooling by flywheel fan</p> <p>Lubricating system Pressure splash, duplex type lubrication</p> <p>Oil capacity 1.1 L</p> <p>Starting system Recoil manual start / Electric start</p> <p>Fuel tank capacity 12 L</p>
LABORATORY GOWN	Artificial Insemination (Swine) NC II	Used to protect the person against accidental spills, e.g., acids.	Must be able to protect the person against accidental spills	<p>TYPE:LABORATORY GOWN</p> <p>MATERIAL:TETORON FABRIC OR COTTON</p> <p>SIZE:FREE SIZE UNISEX</p> <p>WITH A MINIMUM OF 2 POCKETS</p> <p>WITH STUDS FOR EASY OPENING AND CLOSING</p> <p>LENGTH:100 CM (MINIMUM)</p> <p>COMES WITH PLASTIC POUCH WHEN PACK</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Microscope	Artificial Insemination (Swine) NC II	Use to view magnified images of small objects on a glass slides.	Must be able to view magnified images of small objects on a glass slides.	<p>Material: Aluminum die casted Type: Compound Eyepiece: Glass lens locked-wide field,LOX with pointer, and with own separate plastic storage case includes an extra 15X eyepiece Nosepiece: Quadruple with accurate centering and click stops Objectives: Achromatic objectives are par focal, parcentered, colorcoded, with own separate plastic storage case Stage: Built in graduated mechanical stage with stage clips and knobs of 120 x 120mm (minimum size) for easy and smooth scan of specimen slide over range of 30 x 60mm (minimum size) Condenser: 400x lens with iris diaphragm Focus Dual coarse controls with slip clutch and adjustable tensioning ; dual lever type fine focus controls adjustable safety stops Gives sharp, clear, well-lighted images Mirror: 50mm, 2 sided, plain-concave with halogen lamp, switch on/off, safety device and cable for 220VAC rated voltage with wooden storage case; Includes with User's Guide in English that contain a. Diagram of the parts with their names b. Operating procedure on how to use the equipment Comes with wooden box w/ lock No sharp edges</p>
PERSONAL PROTECTIVE PARAPHERNALIA (SCRUB SUITS)	Artificial Insemination (Swine) NC II	A loose-fitting, usually two-piece garment, often of green cotton, worn by surgeons and assisting personnel in an operating room.	Must be able to loose fit ,the two piece garment,often of green cotton, worn by hospital staff	<p>Clothing Material: Cotton Pattern: Plain Sleeves: Short Sleeve Unisex Comes with plastic pouch</p>
POWDER FREE VINYL GLOVES	Artificial Insemination (Swine) NC II	Use to protect against most chemicals and infectious agents.	Must be able to protect against most chemicals and infectious agents.	<p>VINYL/ NITRILE BLEND GLOVES POWDER FREE (1BOX 100 PCS) SIZE: LARGE LATEX FREE MULTI-PURPOSE SINGLE USE ONLY COMES WITH CARTOON BOX</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
POWER SPRAYER	Artificial Insemination (Swine) NC II	USED TO SPRAY A LIQUID, WHERE SPRAYERS ARE COMMONLY USED FOR PROTECTION OF WATER, WEED KILLERS, CROP PERFORMANCE MATERIALS, PEST MAINTENANCE CHEMICALS, AS WELL AS MANUFACTURING AND PRODUCTION LINE INGREDIENTS.	MUST BE ABLE TO SPRAY A LIQUID, WHERE SPRAYERS ARE COMMONLY USED FOR PROTECTION OF WATER, WEED KILLERS, CROP PERFORMANCE MATERIALS, PEST MAINTENANCE CHEMICALS, AS WELL AS MANUFACTURING AND PRODUCTION LINE INGREDIENTS.	Power Sprayer 1.5HP Motor: Single Phase Induction, 1.2HP Spraying Pressure: 214g Irrigation Pressure: 0-10 Spraying Function: 14 L/min Irrigation Function: 20 L/min Spraying R.P.M.: 800 Irrigation R.P.M.: 1200
Rubber boots	Artificial Insemination (Swine) NC II	Use to protect delicate toes from dropped objects and rough terrain	Must be able to protect toes from dropped objects and rough terrain	Material: Rubber Type: Rubber boots Upper material: Elastic, PVC Sizes: 6 inches-2 pairs, 7inches- 3 pairs, 8inches- 3 pairs, 9inches-2 pairs, 10inches-2 pairs Comes with carton box
SANDBAG	Artificial Insemination (Swine) NC II	A sandbag is a cloth bag filled with sand. Sandbags are usually used to build walls for protection against floods or explosions.	Must be able to protect against floods or explosions	Product name: sandbag (without sand) Material: thick canvas Size: 30*70cm Sealing method: drawstring sealing
SEMEN TRANSPORT BOX	Artificial Insemination (Swine) NC II			SEMEN TRANSPORT BOX Product Includes: 1 x Pair Nitrile Gloves 1 x Sterile Syringe (5ml) 1 x Sterile Syringe (10ml) 1 x Vial (50ml) 2 x Capped Semen Tubes with Thermoregulator Sleeves 2 x Sterile Lubricant 2 x Ice Packs
Shovel	Artificial Insemination (Swine) NC II	Used for digging, lifting, and moving bulk materials, such as soil, coal, gravel, sand and etc.	Must be able to dig, lift, and move such as soil, coal, gravel and sand and etc.	Type: Round nose Body shape: Material: High carbon steel plate Blade thickness: 1.9 mm (minimum) Handle type and material: D-Type, Hardwood Width blade: 8.5 inches (minimum) Handle length : 29 inches (minimum) Overall length : 40 inches (minimum) No sharp edges Must be branded

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
TRAINING BAG	Artificial Insemination (Swine) NC II			<p>TYPE TRAINING BAG MATERIAL: POLYESTER WIDTH: 12 INCHES (MINIMUM) MINIMUM OF THREE(3) EXTERIOR POCKETS MINIMUM OF TWO (2) INTERIOR POCKETS COMES WITH DETACHABLE SHOULDER STRAP COMES IN PLASTIC POUCH</p>
White board	Artificial Insemination (Swine) NC II	Use primarily for drawing and writing with whiteboard marker.	Must be able to provide a surface to draw and write on with whiteboard marker.	<p>White board, floor standing, rolling Board: White Formica Laminated, plane will not deform. Board Size: Rectangular 1800mm W x 1000 to 1200mm H, Board Edges secured with Aluminum Clip Edging 17 mm (minimum) with plastic corner caps Comes with Metal Tray for Marker and Eraser The stand and frame are constructed with Aluminum or powder coated steel 25mm square tube (minimum), sturdy, no wobble With 4 lockable hard plastic caster wheels Overall Height from floor: 210 to 214cm Smooth surface, no sharp edges</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Allen Wrench	Computer System Servicing (NC II)	Drive bolts and screws with hexagonal sockets to fasten computer parts and accessories	Drive bolts and screws without causing deformities and still maintaining its form and rigidity	<p>1. Material: chrome vanadium steel, HRc 38 to 60;</p> <p>2. Set of 10 pieces: 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 5.5 mm, 6 mm, 8 mm, 10 mm;</p> <p>3. With holder/ring to keep the set intact;</p> <p>4. Label of sizes engraved in each Allen wrench;</p> <p>5. Smooth surfaces and no sharp edges</p> <p>6. Plastic pack by set</p>
Anti-Static Device (Anti-static Wrist Strap)	Computer System Servicing (NC II)	Reduces, dampens, or otherwise inhibits electrostatic discharge when handling electronic components	Effectively dissipates electrostatic discharge and maintain a set resistance between the metal part of the wrist strap, and the end part where you connect it to ground.	<p>Consists of:</p> <p>a) Adjustable and elastic wristband with integrated 1 Mega Ohm Resistor,</p> <p>b) banana plug with alligator clip for connecting to ground (or equivalent),</p> <p>c) at least 59" long coiled cord;</p> <p>d) non toxic material</p> <p>e) Carton box or plastic pouch packaging</p>
Combination Pliers, 8"	Computer System Servicing (NC II)	Use to cut, splice and stripped various primary and secondary electrical wires, copper and aluminum cable.	Must be able to cut, splice and stripped various primary and secondary electrical wires, copper and aluminum cable	<p>Type: Combination pliers;</p> <p>Body shape: Square nose</p> <p>Material: Chrome vanadium/forged steel</p> <p>Length: 9 inches (minimum)</p> <p>Insulation rating: 1000 volts (etched on the handle)</p> <p>Design: Square nose with serrated jaw</p> <p>Comes with nickel plated finish, side cutter and insulated handle</p> <p>Must be branded (Brand must etched either in the head or on the handle)</p>
Crimping Tool (RJ 11/45)	Computer System Servicing (NC II)	Used to join two or more pieces of metal or other ductile material by deforming one or both of them to hold the other. The bend or deformity is called the crimp.	Effectively crimp materials within the specified measurements of RJ 11 or 45	<p>1. Ratchet Crimp Tool</p> <p>2. ALL-IN-ONE tool that can strip, cut, and crimp</p> <p>3. lightweight steel frame</p> <p>4. RJ-11/45 Compatible</p> <p>5. Positions for 8P/8C, 6P/6C and 4C Connectors</p> <p>6. Lightweight, compact, and durable</p> <p>7. Smooth surface and no sharp edges except cutting edges</p> <p>8. Carton box packaging</p>
Desoldering pump	Computer System Servicing (NC II)	Remove solder from a printed circuit board	Effectively remove solder for a given number of times while still maintaining its form and functionality.	<p>1. Material : Plastic or aluminum housing;</p> <p>2. Replaceable heat-resistant plastic tip;</p> <p>3. Length : Minimum of 6 inches;</p> <p>4. Effective in removing solder;</p> <p>5. Smooth surface and no sharp edges</p> <p>6. Carton or plastic packaging</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Electric Drill, Portable	Computer System Servicing (NC II)	Use to drill a hole on the sheet metals, angle bars, square tubing, G.I. pipes, B.I. pipes, hardwood and walls	Must be able to drill a hole on the sheet metals, angle bars, hardwood and walls with hammer function for concrete. Must be able to drill 13mm hole	<p>Type: Electric power Material: Hard plastic Rated voltage: 220 / 240 volts, AC 60 Hz Power in warts: 550 to 650 watts Speed: Variable speed Chuck capacity: 2 to 13 mm Power cord must have flat blade attachment plug (Type A plug) Comes with HSS Drill bits: 2mm 4pcs, 4 mm 4pcs, 6 mm 4pcs, 8 mm 4pcs, 10 mm 4pcs. 12 mm 4pcs, 12.5 mm 4pcs, Total- (28 pcs) Masonry drill bits: 4 mm 2pcs, 6 mm 2pcs. 8 mm 2pcs, 10 mm 2pcs, 12 mm 2pcs, Total- (10 pcs.) With hammer function for concrete drilling Comes with English user's manual includes of the following: a. a diagram of the parts with label; b. assembly instructions; c. operating procedures; d. safety precautions when using the equipment; e. basic troubleshooting and maintenance procedures. Warranty period of parts and service: 1 year</p>
External optical drive	Computer System Servicing (NC II)	Uses a laser light to read data from or write data to an optical disc (CD or DVD)	Read data from or write data to given number of optical discs (CD or DVD) while still maintaining its form and functionality.	<ol style="list-style-type: none"> 1. Interface: USB 3.0 or better; 2. Compatibility: Windows 2000, XP, Vista, 7, 8, 10, Apple Mac, Linux or better; 3. Read Speed: at least 8x DVD, at least 24x CD; 4. Write Speed: at least 4x DVD, at least 16x CD; 5. Package includes: <ol style="list-style-type: none"> a) 1 x External optical drive, b) 1 x USB Power Cable, c) 1 x USB Data Cable, d. Item size: 5.4" x 5.51" x 0.63" (L x W x H) approximate 7. Metal or hard plastic casing 8. Smooth surface and no sharp edges 9. Carton box packaging 10. With User's Manual in English which includes: <ol style="list-style-type: none"> a. a diagram of the parts with their names, b. operating procedures 11. With Service centers located in major cities in the Philippines.

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Flash drive	Computer System Servicing (NC II)	Store and transfer files to and from a computer	Store and transfer file with a specified size to and from a computer without the file being corrupted in the process	<ol style="list-style-type: none"> 1. Capacity: 32 GB ; 2. Connectivity: USB 3.0, Backward-Compatible with USB 2.0, Plug and Play ; 3. Device/OS compatibility: Windows Vista, Windows 7, 8, 10, MacOS 10.6+ or later versions; 4. Form: Swivel type or with cover; 5. Dimension: 0.40 x 0.80 x 2.31 in. (10.16 x 20.32 x 58.67 mm) approximate 6. Metal or hard plastic casing 7. Smooth surface and no sharp edges 8. Carton and/or plastic packaging 9. User's Guide on name of parts, connection guide, maintenance and safety precautions.
Flashlight, head-mounted	Computer System Servicing (NC II)	Light source affixed to the head to provide "hands-free" lighting for certain activities	Provide "hands-free" lighting of a set brightness for a specified time on a single charge	<ol style="list-style-type: none"> 1. Type: Rechargeable, Head mounted LED flashlight; 2. Minimum of 160 lumens; 3. Beam Distance: minimum of 150 meters; 4. Includes 220 V AC Charger/Power Adaptor (or equivalent); 5. Charging time: 3-6 hours; 6. Provides up to 30 hours (minimum) of constant light on a single full charge; 7. Approximate Size: 60X 30mm 8. Smooth surface and no sharp edges 9. Carton box or plastic pouch packaging. 10. With User's Manual in English which includes: <ol style="list-style-type: none"> a. a diagram of the parts with their names, b. operating procedures c. safety precautions when using the equipment, d. basic troubleshooting and maintenance procedures.

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Hub / Switch	Computer System Servicing (NC II)	used to connect various network segments	joins multiple computers together within one local area network (LAN). A Hub connects multiple Ethernet devices together, making them act as a single segment.	<ol style="list-style-type: none"> 1. Standards and Protocols: IEEE 802.3, IEEE802.3u, IEEE802.3X CSMA/CD 2. Interface: 8 10/100Mbps Ports, Auto-Negotiation, Auto-MDI/MDIX 3. External Power Supply Adapter: 100-240VAC,50/60Hz 4. Fanless 5. Data Rates: 10/100Mbps at Half Duplex ; 20/200Mbps at Full Duplex 6.LED indicator: Power, 1, 2, 3, 4, 5, 6, 7, 8 7.Dimensions: 5.3 x 3.1 x 0.9 in. (134.5 x 79 x 22.5mm) (Approx.) 8. Transfer Method: Store and Forward 9. Advance Functions: Green Technology, saving power up to 73%; 802.3X Flow Control, Back Pressure; Auto-Uplink Every Port 10. Certification: FCC, CE, RoHS 11. Package Contents: 8-Port 10/100Mbps Desktop Switch, Power Adapter, User Guide 12. System Requirements: Microsoft Windows 98SE, NT, 2000, XP, Vista or Windows 7, Windows 8, Mac OS, Netware, Unix or Linux. 13. Operating Temperature: 0°C-40°C (32°F-104°F) 14. Storage Temperature: -40°C-70°C (-40°F-158°F) 15. Operating Humidity: 10%-90% non-condensing 16. Storage Humidity: 5%-90% non-condensing 17. Dimension: 141.5 x 78.5 x 23.8 mm (5.57 x 3.09 x 0.94 inches) approximate 18. Metal or hard plastic casing 19 Smooth surface and no sharp edges

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
LAN Cable tester	Computer System Servicing (NC II)	Measure and test existing LAN connection	Measure and test existing LAN connection for a given number of cable types	<ol style="list-style-type: none"> 1 Cable Tester with LED indication for RJ12, RJ11, RJ45, Cat5e, Cat6, 10/100 Base-T; 2 Main tester: 1-2-3-4-5-6-7-8-G; 3 Remote tester: 1-4-3-2-5-6-7-8-G; 4 Power supply: 9 V battery (included); 5 Capable of testing crossover, straight-through, and rollover cables; 6 Includes plastic case or pouch; 7 With User's Manual in English which includes: <ol style="list-style-type: none"> a. a diagram of the parts with their names, b. operating procedures c. safety precautions when using the equipment, d. basic troubleshooting and maintenance procedures. 8 With Service centers located in major cities in the Philippines. 9. Material: ABS 10. Size: 103x100x30mm/4.06x0.39x1.18in approximate 11. Smooth surface and no sharp edges
Long Nose Pliers, 8"	Computer System Servicing (NC II)	For holding, cutting, straightening, bending wire, and twisting wires together when making splices.	Must be able to hold, cut, straighten, bend, and twist wires of a given size/diameter	<ol style="list-style-type: none"> 1 Material: chrome vanadium steel, HRC 38 to 60; 2 Length: 7 inches (minimum); 3 Handle type: curved handle with rubber cushion for easy grip; 4 Jaws type: knurled and long tempered; 5 Comes with hardened cutting edges and chrome-nickel finish. 6. Smooth surface and no sharp edges 7. Carton or plastic packaging

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Multimeter, digital	Computer System Servicing (NC II)	Used to measure two or more electrical values-principally voltage (volts), current (ampere) and resistance (ohms), capacitance (farad)	Must be able to measure Voltage (volts), Current (ampere) and Resistance (ohms), capacitance (farad).	<p>Material: Plastic casing</p> <p>Main functions: AutoRange/Data hold/Back light/ LED lamp/Diode test/Triode test/Continuity/ Over load protection/Low Battery Indication/Auto Power Off/Short-circuit protection.</p> <p>Display: True RMS, 6000 counts, 3 1/2 digits</p> <p>Overload Display: Display OL</p> <p>DC Voltage:600mV/6V/60V/600V(0.5%+3), 1000V (0.5%+3)</p> <p>AC Voltage:600mV/6V/60V/600V(0.8%+5)</p> <p>DC Current:600A/6000A/60mA/600mA/10A (1.2%+3)</p> <p>AC Current:600A/6000A/60mA/600mA/10A (1.5%+3)</p> <p>Resistance:600/6K/60K/600K(1.0%+3) 6M/60M (1.5%+3)</p> <p>Capacitance: 10nF/100nF/1000nF/10uF/100uF/1000uF (4.0%+5), 10MF/100MF(5.0%+5)</p> <p>Frequency/Duty:10Hz/100Hz/1000Hz/10kHz/ 100kHz/ 1000kHz (1.0%+3),1.0MHz(3.0%+3)</p> <p>Package Content: (a.) 1 x Digital Multimeter, (b.) 1 x Test Leads, (c.) 2 x 1.5V (AA or AAA) Battery, (d.) 1 x User manual in english, operating procedures, safety precautions when using the equipment, basic troubleshooting and maintenance procedures, (e.) 1 x Temperature Probe (Thermocouple)</p> <p>With Safety Level/Certification: IEC, CE or equivalent</p> <p>With carton box</p>
Patch panel (48 ports)	Computer System Servicing (NC II)	bundle multiple network ports together to connect incoming and outgoing lines	must be able to connect for local area networks (LAN) to connect computers to other computers and to outside lines.	<ol style="list-style-type: none"> 1. Network Patch Panel 2. 48 port Patch Panel 3. CAT6 Cable 4. Material: ABS Plastic 5. Application: UTP(UShielded) 6. Certification: RoHS, ISO, CE 7. RJ45 Connector : two rows (1-24 ports & 25-48 ports) 8. Transport package: 1PCS/Box 9. Smooth surface and no sharp edges

Item Name	TVM Specialization	Functional Specification	Performance Specification	Design Specification:
PC Video camera	Computer System Servicing (NC II)	Feeds or streams an image or video in real time to or through a computer to a computer network	Feeds or streams an image or video with a given resolution in real time to a computer	<ul style="list-style-type: none"> 1) 5.0 Mega Pixel Web Camera, USB-type; 2) With Microphone for Laptop and Desktop PC use; 3) Resolution: at least 640 x 480; 4) Support Windows XP/7/8/equivalent Mac OS or later versions; 5) With User's Manual in English which includes: <ul style="list-style-type: none"> a) a diagram of the parts with their names, b) operating procedures c) basic troubleshooting and maintenance procedures. 6) Hard plastic or metal casing 7) Smooth surface and no sharp edges 8) Carton or plastic packaging
Phillip's screwdriver, 8" insulated	Computer System Servicing (NC II)	For screwing (installing) and unscrewing phillips head screw.	Must be able to screw (install) and unscrew phillips head screw. Must have insulation protection 1000VAC/1500VDC, VDE certified (or its equivalent).	<ul style="list-style-type: none"> 1. Shank Material: chrome vanadium steel, HRC 38 to 60; 2. Handle Material: Molded Plastic 3. Overall length: 8 inches (minimum) 4. Insulation protection (including shank): 1000VAC/1500VDC, VDE Certified (or its equivalent) 5. Non slip handle design 6. Carton or plastic packaging
Precision Screwdriver Set	Computer System Servicing (NC II)	Used for driving small screws.	Drive small screws without causing deformities and still maintaining its form and tip	<ul style="list-style-type: none"> 1. Material: Hardened and tempered steel; 2. 1 set comes with the following: <ul style="list-style-type: none"> a) 3 x Phillips tip No. 00, 0, and 1; b) 6 x Standard tip No. 1, 1.2, 1.4, 1.8, 2.4, and 3.0; c) 1 x Awl; d) 1 x Magnet; e) plastic storage case; 3. Non slip design handle
Soldering Iron, 60W	Computer System Servicing (NC II)	For melting solder so that it can flow into the joint between two workpieces.	Must be able to generate enough heat to melt the soldering lead and join the two wires firmly with minimal effort.	<ul style="list-style-type: none"> 1. Type: iron rod 2. Voltage: 220/240VAC, 60Hz, Single phase; 3. Power: 60W (minimum); 4. Body Length: 8.3 inches (21 cm) approximate 5. Cord Length: 1.5 meters (minimum) 6. Handle: Plastic; (non slip handle) 7. With user's manual written in English that contains user's guide, operating procedure, parts with description, safety procedure, and maintenance; 8. Interchangeable copper tip; 9. Should have available spare parts nationwide for a minimum period of 5 years; 10. Carton and/or plastic packaging

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Standard screwdriver (Flat), 8" Insulated	Computer System Servicing (NC II)	For driving (tighten or loosen) slotted head screws.	Must be able drive (tighten or loosen) slotted head screws. Must have insulation protection 1000VAC/1500VDC, VDE certified (or its equivalent)	<p>Design Specification:</p> <ol style="list-style-type: none"> 1. Shank Material: chrome vanadium steel, HRC 38 to 60; 2. Handle Material: Molded Plastic 3. Overall length: 8 inches (minimum) 4. Insulation protection (including shank): 1000v, VDE Certified (or its equivalent) 5. Non slip handle design 6. Carton or plastic packaging <p>The item shall have the following specifications:</p> <ol style="list-style-type: none"> 1. Type: Battery (Included): Lithium Ion battery or Maintenance-free sealed Lead-Acid battery with suspended electrolyte: leakproof 2. Voltage: Nominal Input Voltage: 230V, 50/60 Hz 3. Output Power Capacity: 600VA (minimum) 4. Output Connections :2 Universal Receptacle (minimum) 5. Cord Length: 1 meter (minimum) 6. Maximum Input Current: 5A 7. Protection: Overload, Short Circuit, Over Discharge & Over Charge 8. Transfer Time: 10ms maximum 9. Size (Approx.): (H) 223mm x (W) 143mm x (D) 347mm 10. Metal and/or hard plastic casing 11. Smooth surface and no sharp edges 12. Carton box packaging 13. With User's Manual in English which includes: <ul style="list-style-type: none"> a. a diagram of the parts with their names, b. operating procedures / wire connections c. safety precautions when using the equipment, d. basic troubleshooting and maintenance procedures.
USB External HD	Computer System Servicing (NC II)	used to store media located outside of a computer that is connected through a USB cable or wireless connection that a user needs to be portable, for backups, and when the internal drive of the computer is already at its full memory capacity	must be able to store media connected through a USB cable that needs to be portable, for backups, and additional memory capacity in the device	<ol style="list-style-type: none"> 1) 1TB Portable/External Hard Drive 2) Application: Laptop / Desktop PC 3) Interface Type: SATA/II 4) Installation: Mobile 5) Formatted Capacity: 1000GB(Windows Display about 298GB) 6) Size(mm): 14.29 x 80.01 x 17.60 (Approx) 7) Metal Casing 8) Comes with USB 3.0 cable (1.8 inch minimum) 9) User's manual (English) on name of parts, user's guide, wiring connection, safety precautions and maintenance 10) Smooth surface and no sharp edges 11) Optimal Colors: Black 12) Carton box or plastic pouch packaging

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Wire stripper	Computer System Servicing (NC II)	Use to stripped, cut and crimp a connector and terminal lug of electrical wires / cable.	Must be able stripped, cut and crimp terminal lug of electrical wires / cable to the control panel of compressor motor, panel board and air condition system.	<p>Type: Spring-loaded self opening. Body shape: Long jaw with slot Blade material: Hardened alloy steel (sharp edges to strip and cut the wires) Wires to be stripped: 10 AWG to 24 AWG Length: 7 inches (minimum) Comes with automatic self-adjusting spring, crimping slot, and hard plastic handle Must be branded</p>
Wireless Access Point	Computer System Servicing (NC II)	Allows wireless capable devices and wired networks to connect through a wireless standard, including Wi-Fi or Bluetooth	Must be able to provide connectivity for laptops, notebooks, smartphones, tablets, and other Wi-Fi enabled devices of up to 300Mbps through a wireless standard.	<p>Type: Wireless access point Dual band WiFi Band / Data Transfer Rate: 867 Mbps at 5 GHz and 300 Mbps at 2.4 GHz band Operating Modes: Access Point (AP), Bridge, Wireless Client, Repeater Interface: One 10/100M Ethernet Port(RJ45), Support Passive PoE Power: On/Off Button and Reset Button Comes with External Power Supply: 5VDC-12VDC / 0.5A-1.0A Dimensions (L x W x D): (76-191 x47-125 x30-68mm) Comes with at least 2 Antenna (External detachable) Operating Temperature: 0°C~40°C Storage Temperature: -40°C~60°C Operating Humidity: 10%~90% non-condensing Storage Humidity: 10%~85% non-condensing System Requirements: Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, 10, MAC OS, NetWare, UNIX or Linux. Wireless Security (any): 64/128/152-bit WEP / WPA / WPA2,WPA-PSK / WPA2-PSK Protocols: Supports IPv4 and/or IPv6 Plastic or metal casing The item must be branded. With User's Manual in English which includes: a. operating procedures, b. safety precautions when using the equipment, c. basic troubleshooting and maintenance procedures. Carton box packaging</p>

Item Name	TVL Specialization Computer System Servicing (NC II)	Functional Specification	Performance Specification	Design Specification:
Working Table		Used as a surface for working at, or on which to place things.	Must be able to hold/carry items up to a given weight and still maintain its form and rigidity	<p>Type: Wood Top Table Shape: Rectangle Legs material: Heavy duty steel frame Wood top thickness: 1.5" thick (minimum) with flat surface Dimensions (L x W): 48" x 24" (minimum). Adjustable steel legs 28.5" to 42" (adjustable at least 7" height difference) Load capacity: 500 lbs. (minimum) No sharp edges</p>
BLENDER	Food Processing NC II	Must be able to blend, mix and extract juice from fruits and vegetables.	Should have sharp ice crushing blade, heat resistant glass jar, non-slip base for a successful blending and mixing tasks.	<p>Type: Blender Machine Body Shape: Round Material Housing: Plastic (Polypropylene) Heat resistant Glass Jar with cover Jar Height: 25 cm to 28 cm Jar Thickness: 4 mm to 8 mm Power Source: 220 Volts / 240 Volts, 50 Hz / 60 Hz, with power cord 1.5 meter long with attachment of standard Type A male plug or provide plug Adaptor: 10A/220V Power Rating: 300 to 700 watts Blade: Stainless steel, 3 to 4 metal blades Capacity: 1.5 to 2 liters With 5 to 10 push button speed setting with pulse control switch Preferably with a locking case With English Manual that contain: Operation guide, maintenance and troubleshooting procedure With Service centers located in major cities in the Philippines.</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Brix refractometer	Food Processing NC II	Must be used as an optical precision instrument which determines the density of a liquid by the index of refraction.	Should be sturdy, metal body made of durable aluminum, with dual scale (brix scale and specific gravity scale) for easier and more accurate measurement of sugar contents.	<p>Type: Brix Refractometer Body Shape: Tubular Body material: Aluminum Overall Length: 175 mm (minimum) Measuring Range: Brix 0-32% Minimum Divisions: Brix 0.2% Accuracy: Brix: + 0.2% Automatic Temperature Compensation Range: 0 °C ~ 30 °C Accessories: Set include ATC refractometer, pipettes, mini screw driver, protective carrying case and user's manual Preferably with a packing case Comes with English user's manual that contain: Operation guide and maintenance procedure. Warranty period of 1 year (parts and service) Must be branded."</p>
CAP SEALER	Food Processing NC II	Must be used in sealing of glass bottles and non-metallic bottles (PP, PET, PVC, PE, ABS and other plastic bottles).	Should adopt to electromagnetic induction principle to heat and seal non-metal containers and can seal bottles with various cap sizes.	<p>Type: Induction Cap Sealer Body Shape: Rectangular Material: Metal (coated) Dimension: (L x W x H) 33 cm x 27.9 cm x 15.2 cm (minimum) Induction head with sealing diameter of 20 mm to 100 mm Rated voltage: 220 Volts -230 Volts/ 50 Hz- 60Hz with power cord 1.5 meter long with attachment standard Type A male plug or provide plug Adaptor 10A/220V Power Rating: 500 Watts (minimum) Equipped with LCD Display, digital timer, vertical inductive switch & control panel Preferably with a packing case No sharp edges and rough surfaces Comes with English user manual that contain: Operation guide, maintenance and troubleshooting procedure. Must be branded"</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Food Processor Set, with accessories	Food Processing NC II	Must be used to quickly perform food preparation tasks traditionally carried out by hand.	Should be of stainless steel cutting disc for slicing, chopping and shredding for easy food processing and preparation.	<p>Type: Food Processor Body Shape: Round Body material: Hard plastic, Polypropylene, Food grade Dimensions: Height - 377 mm x Width- 244 mm x Depth-244 mm (minimum) Liquifying Jar Capacity: 1.5 liters (minimum) Bowl Capacity with lid: 2.0 liters (minimum) Rated voltage: 220 Volts - 230Volts, 50 Hz/60 Hz, with power cord 1.5 meter long with attachment standard Type A male plug or provide plug Adapter 10A/220V Power Rating: 450 Watts (minimum) Number of speed settings: 3 speed With five (5) Stainless Steel cutting disc for slicing, chopping Shredding disc. Preferably with a packing case Dishwasher safe bowl, lid, blades and scraper Comes with user manual in English that contain: Operation guide, maintenance and troubleshooting procedure. Must be branded.</p>
Head-space gauge	Food Processing NC II	Must be used as measurement kit in home canning processing for hassle free preserves making.	Should have a space gauge and bubble remover for quality preserves.	<p>Type: Head-space Gauge Body Shape: Flat Material: Hard plastic, Polypropylene Thickness: 1/8 inch thick Amount of Head-space : 1/4 inch, 1/2 inch, 3/4 inch, 1 inch and 1 1/4 inches Length: 6 inches (minimum) The tip is for bubble remover and other end is for headspace gauge Preferably with a packing case Food grade Bubble remover and Headspace tool in any color Must be branded.</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Laboratory scale cabinet drier or forced draft	Food Processing NC II	used to expedite drying of food items such as fruits, fish, meat, vegetable and root crops.	Should be of durable body with thermostat, timer and automatic constant temperature for quick drying of food and other products.	<p>Type: Laboratory Scale Cabinet drier or forced draft oven</p> <p>Body Shape: Rectangular Box</p> <p>Material: Stainless Steel, steel, iron and carbon steel</p> <p>Dimensions: Length-500 mm x Width- 600 mm x Height-750 mm (minimum)</p> <p>Working Temperature: 300 degrees centigrade</p> <p>High temperature resistant long shaft motor for turbine fan</p> <p>Power Source: 220 Volts-230 Volts /50 Hz- 60 Hz, with power cord 1.5 meter long with attachment of standard Type A male plug or provide plug Adaptor .10A/220V</p> <p>Power Rated: 4.6 kilowatts</p> <p>Over temperature protection, super load automatic power system.</p> <p>With thermostat, microcomputer control, Timer, power failure alarm indicator and automatic constant temperature</p> <p>No. of shelves: 4 shelves (minimum) with trays</p> <p>Door with glass window</p> <p>Preferably with a packing case</p> <p>No sharp edges and rough surfaces</p> <p>Comes with English user manual that contain operation guide and maintenance procedure.</p> <p>Must be branded.</p>
Measuring Cup for Liquid, 500 mL	Food Processing NC II	Must be used to measure liquids in cup, ounce and other metric equivalents.	Should be marked for precise measuring and designed to be easily held and poured.	<p>Type: Measuring Cup for liquid</p> <p>Body Shape: Round</p> <p>Material: Clear, non-porous tempered glass</p> <p>Capacity:</p> <ol style="list-style-type: none"> 1) 500 ml (with 10 ml or 50 ml increments) 2) 250 ml (with 10 ml or 50 ml increment) 3) 100 ml (10 ml or 50 ml increment) <p>Food grade</p> <p>Specified metric and English system of measurement</p> <p>With handle & spout for easy pouring</p> <p>With permanent graduation markings</p> <p>Preferably with a packing case</p> <p>Dishwasher safe</p> <p>Must be branded</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Meat Grinder	Food Processing NC II	Must be used for chopping and/or mixing of raw or cooked meat, fish, vegetables or similar food, also known as meat mincer.	Should have various steel cutting plates for coarse, medium, fine grinding of meat, with powerful and durable motor for quality mincing of meat.	<p>Type: Meat Grinder</p> <p>Body Shape: Rectangular</p> <p>Body material: Cast Aluminum body</p> <p>Dimensions: Length-34 cm x Width-27 cm x Height-37 cm (minimum)</p> <p>Rated voltage: 220 Volts/ 230 Volts, 60 Hz with power cord 1.5 meter long with attachment standard Type A male plug or provide plug Adaptor 10A/220V</p> <p>Power Rating : 650 Watts (minimum)</p> <p>Grinding Capacity: 60 kg per hour</p> <p>Two (2) Speed: Fast (grinding) and Slow (stuffing)</p> <p>Grinder plates hole sizes: 5/32 inches (3.9mm), 1/4 inches (6.3mm) and 3/8 inches(9.5mm)</p> <p>Comes with 3 pieces of Stainless steel cutting blades, tubes, adaptor and grinding head which includes locknut, head, meat pan and worm screws</p> <p>Preferably with a packing case</p> <p>No sharp edges and no rough surfaces</p> <p>With an English manual that contain: Operation guide, Safety guide, maintenance / troubleshooting procedure and list of parts.</p> <p>With Service centers located in major cities in the Philippines.</p> <p>Warranty period of 1 year (parts and service)</p> <p>Must be branded</p>
Mixing Bowl, Stainless Steel	Food Processing NC II	used to measure, mix and store food and can be used to marinate meat for the grill, make taste sauces and dressings, for serving fruit, tossed salad, chips and much more.	Should be durable stainless steel, easy to clean, with flat base for increase stability for mixing, measuring and storing of foods.	<p>Type: Mixing Bowl</p> <p>Body Shape: Round</p> <p>Material: 304 Stainless steel, 0.5 mm thick (minimum)</p> <p>Dimension: Diameter-10 inches x Height-4 inches (minimum)</p> <p>Capacity: 5 Quarts</p> <p>Flat base for increased stability when mixing</p> <p>Preferably with a packing case</p> <p>The item must be safe to use, no rough surfaces, and sharp edges</p> <p>Dishwasher safe</p> <p>Must be branded</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Poly/Temperature sealer	Food Processing NC II	used to seal products, packaging and other thermoplastic materials using heat.	Should be of rigid metal body, handy and easily used for quality sealing and packaging.	<p>Type: Poly Heat Sealer Body Shape: Standard Material: Metal (coated) Dimension: Length-420 mm x Width-75 mm x Height- 135 mm (minimum) Sealing Strip length: 300 mm x Width-2 mm (width can be extended to 3mm-5 mm) Rated Voltage: 220 Volts / 60 Hz. Power Rating: 400 Watts (minimum) Sealing Time: 0.2 - 1.5 seconds Accessories: With replacement kit which includes heating element wire and teflon strips Color: Any color Preferably with a packing case No rough surfaces Comes with English user manual that contain: Operation guide, maintenance & troubleshooting procedure Must be branded.</p>
Pressure Cooker	Food Processing NC II	Used to cook food quickly because of the pressure that builds up inside, and is perfect for meat stews, cheese cakes, and much more.	Should be with safety opening mechanism, safety valve, made of polished aluminum material, can cook food quickly and hassle free.	<p>Type: Pressure Cooker Body Shape: Round Material: Polished aluminum Dimension: Diameter: 32 cm x Height: 25 cm (minimum) Capacity: 10 quarts (11.3 liters) Side handles for secure carrying Equipped with safety opening mechanism, spring safety valve, rubber seal ring Dishwasher safe Comes with an English manual that contain: Operation guide, safety guide, maintenance / troubleshooting procedure. With Service centers located in major cities in the Philippines. Warranty period of 1 year (parts and service) Must be branded.</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Salinometer	Food Processing NC II	used to determine the salinity of water and to dissolve salt content in a solution.	Should be water proof, battery operated power supply, with button for calibration and LCD display for easy determination of the salinity of water.	<p>Type: Salinometer Body Shape: Tubular/ Pen Body material: Hard plastic, Polypropylene Display LCD Size: 20 mm x 27 mm (minimum) Dimensions: Length = 188 mm x Width = 38 mm (minimum) Power supply by 1.5V battery (battery included) Temperature range: 0 to 50 °C (32 to 122 °F) Measurement range: 0 - 1000 mg/L (salinity) Resolution: Salt 1 mg/L and Temperature 0.1°C/0.1°F Accuracy: Salt ± 1% and Temperature ± 0.8 °C/ ± 1.5 °F Water proof salinometer With button for Calibration, ATC and Power ON/OFF. Preferably with a packing case Comes with English user manual that contain: Operation guide and maintenance procedure. Must be branded.</p>
Smoke House	Food Processing NC II	used to smoke slow cooked meats by checking on them constantly and by observing the temperature throughout the cookery process providing a hands of technique.	Should be with automatic smoke generator, four adjustable layer grill, LED display in control panel and clear glass door for easy monitoring of the smoking processes.	<p>Type: Electric Smoke House Body Shape: Rectangular Material: Stainless Steel Dimensions: Height-40 inches x Width-23 inches x Depth-16 inches (minimum) Rated voltage: 220 Volts / 50 Hz- 60 Hz with power cord 1.5 meter long with attachment of standard Type A male plug or provide plug Adaptor: 10A/220V Power Rating: 1000 Watts (minimum) Control Panel with LED Display Maximum temperature up to 400 °F with thermostat Number of detachable layer grills: Four (4) adjustable layer grill Insulated double wall Glass door with stainless steel locking latch for smoke tight seal Comes with immovable food thermometer Preferably with a packing case With user manual in English that contain: Operation guide, maintenance procedure and list of parts Must be branded.</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Smoking Tray	Food Processing NC II	used to add smoke flavor in a grill and used as a receptacle for saw dust and wood chips in the smoke house.	Should be convenient to use, stainless steel, can create thin blue smoke for hours on one load of woodchips and saw dust for smoking with minimal effort.	<p>Type: Smoking Tray Body Shape: Rectangular Material: Stainless steel Mesh size: 1.2 mm (minimum) Dimensions: Length- 15 cm x Width - 19 cm x Height - 4 cm (minimum) Wire diameter: 4 mm (minimum) Use with sawdust and woodchips Preferably with a packing case No sharp edges Must be branded</p>
Soaking Container	Food Processing NC II	used for soaking and washing kitchen utensils or large size baskets and can be used as an ice storage.	Should be with extra deep interior, sturdy, durable, extended sides for easy grip, portable can make the soaking and washing processes easy and attainable.	<p>Type: Soaking Container or soaking Pan with Lid Body Shape: Rectangular Material: Stainless steel, 1 mm thick (minimum) Dimensions: Length-50 cm x Width- 30 cm x Height- 15 cm (minimum) Extended sides for an easy grip Preferably with a packing case Dishwasher Safe Must be branded.</p>
Steamer, Big	Food Processing NC II	used to cook or prepare various foods with steam heat by means of holding the food in the closed vessel reducing steam escape.	Should be of good quality stainless steel steamer with multi-functional 3 layers, for faster cooking of health oriented foods.	<p>Type: Steamer, Big Body Shape: Round Material: stainless steel, 0.7 mm thick (minimum) Diameter: 45 cm (minimum) Height per layer: 12 cm (minimum) Number of layers: 3 layers Comes with handle both side and glass cover with knob Includes: straight-sided stockpot, double boiler and steamer insert Preferably with a packing case Dishwasher Safe Must be branded</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Stoves	Food Processing NC II	Must be able to heat and cook food using infrared energy.	Should be double burner, with ceramic plates, precise temperature control function, with steady fire power, with automatic ignition LPG gas for safety and satisfying cooking.	<p>Type: Infrared Gas Stoves Body Shape: Rectangular Material: Stainless Steel and Ceramic Ceramic plates, matched with honeycomb burners Dimension: Length-70 cm x Width-32 cm x Height-10 cm (minimum) Fuel: LPG Gas with automatic ignition and precise temperature control function Capacity of 2 burner with diameter of 12.7 cm (minimum) With Steady fire power which is safe even with Wind blow Accessories: Brand new LPG tank 11 kg with content, LPG hose, hose clamp, and LPG gas regulator Preferably with a packing case or crate Comes with user manual in English that contain: Operation guide, maintenance and troubleshooting procedure. Warranty period of 1 year (parts and service) Must be branded.</p>
Stuffer/ Linker	Food Processing NC II	used for food industry as a bag and box fillers for formed hams and plates, and as stuffing pumps for high capacity sausage.	Should be manually operated, stainless steel with various stuffing tube sizes for sanitary and safe making of sausages and other food products.	<p>Type: Manual Stuffer/ Linker Body Shape: material: Stainless steel Dimensions: Length - 300 mm x Width- 300 mm x Height- 660 mm (minimum) Hand-Operated Sausage Machine Capacity: 5 liters (minimum) Includes stainless steel stuffing tubes: 1 pc - Size 1.27 cm x 18 cm long (minimum) 1 pc - Size 2 cm x 18 cm long (minimum) 1 pc - Size 2.5 cm x 18 cm long (minimum) 1 pc - Size 3 cm x 18 cm long (minimum) 1 pc - Size 4 cm x 18 cm long (minimum) Comes with English user manual that contain: Operation guide and list of parts Preferably with a packing case Dishwasher safe Must be branded</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specifications:
Trolley	Food Processing NC II	a device with wheels used to transport heavy things such as shopping or luggage.	Should be multi-function, highly durable, versatile, and easy to storage	<p>Type: Foldable Flat form Trolley Body Shape: Rectangular Material: Metal with paint Dimension: (L x W x H) 90 cm x 60 cm x 86 cm (minimum) Capacity: 300 kg loads (minimum) With four (4) Swivel Caster, 10 cm diameter (minimum), two which have locking brakes Steel flat form materials and Handle is thick robust tubing Rigid Steel Construction Preferably with a packing case No sharp edges and rough surfaces Must be branded</p>
Vacuum Pack Machine	Food Processing NC II	Must be able to remove air from the package prior to sealing and can do automatic vacuum forming of granular materials.	Should be easy to operate, should have a built-in cutter double sealing line for a hassle free removal of air from the package before the sealing procedure.	<p>Type: Vacuum Pack Machine Body Shape: Rectangular Material: Stainless Steel housing Dimension: Length- 390 mm x Width-160 mm x Height- 85 mm (minimum) Rated Voltage: 220/ 230 Volts, 60 Hz with power cord 1.5 meter long with attachment of standard Type A male plug or provide plug Adopter 10A/220V Power Rating: 110 Watts (minimum) Vacuum Degree: -65 KPA to 85 KPA Seal-up Time: 6-10 seconds Built-in cutter and Double sealing line Preferably with a packing case No sharp edges and rough surfaces Comes with English user manual that contains: Operation guide, maintenance and troubleshooting procedure. Must be branded.</p>

Item Name	TVL Specialization	Functional Specification	Performance Specification	Design Specification:
Weighing Scale, 10 kilograms, dial type	Food Processing NC II	Must be able to weigh goods in the field of manufacturing, farming, food processing, etc.	Should have a metal body coated with anti-microbial system, with stainless steel pan of balance for accurate weighing of 10 kilogram load.	<p>Type: Mechanical Spring Scale</p> <p>Body Shape: Round (Pan)</p> <p>Material: Stainless Steel weighing bowl and metal body (coated)</p> <p>Bowl dimension: Diameter- 250 mm x Depth-45 mm (minimum)</p> <p>Mechanical Dial Display: 190 mm diameter (minimum)</p> <p>Capacity: 10 kg / 22 lb.</p> <p>Sensitivity/Graduated by 10 gm</p> <p>Measurement units: Gram/Kilogram/lb</p> <p>Manual Setting on Zero, must be accurate and durable</p> <p>Have calibration certificate</p> <p>Preferably with a packing case</p> <p>Weighing bowl is dishwasher safe</p> <p>With instruction manual in English</p> <p>Must be branded</p>
Weighing Scale, 50 kilograms	Food Processing NC II	used for weighing on manufacturing, farming and food processing.	Should have a metal body coated with anti-microbial system with stainless steel flat form of balance with 50 kilograms weighing capacity.	<p>Type: Mechanical Spring Scale</p> <p>Body Shape: Rectangular with flat Pan</p> <p>Material: Stainless Steel Flat form and Metal body (coated)</p> <p>Flat form Size: 200 mm x 200 mm (minimum) stainless Steel Plate</p> <p>Mechanical dial display: 190 mm diameter (minimum)</p> <p>Color: Any color</p> <p>Mechanism Type: Spring Lever</p> <p>Capacity: 50 kilograms</p> <p>Measurement units: Gram/Kilogram</p> <p>Calibrate the scale using the adjustment knob</p> <p>Manual Setting on Zero, must be accurate and durable</p> <p>Preferably with a packing case</p> <p>Have calibration certificate</p> <p>No sharp edges and rough surfaces</p> <p>With instruction manual in English</p> <p>Must be branded</p>

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

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- (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,
and
- (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;
and
- (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

- (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**
- (g) 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 after-sales/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 applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (m) Original of duly signed and accomplished Financial Bid Form; **and**
- (n) Original of duly signed and accomplished Price Schedule(s).

Other documentary requirements under RA No. 9184 (as applicable)

- (o) *[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (p) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

