PHILIPPINE BIDDING DOCUMENTS

Procurement of GOODS

Government of the Republic of the Philippines

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** REGION VII – CENTRAL VISAYAS Schools Division of Cebu City

INVITATION TO BID FOR (RE-BIDDING) SUPPLY AND DELIVERY OF SCIENCE & MATHEMATICS EQUIPMENT (SME) PACKAGES FOR PUBLIC JUNIOR AND SENIOR HIGH SCHOOL FOR FY 2022 UNDER SUB-ARO NO. OSEC-7-22-0107

Project no.: DepEdCCD – 2023 - 01

The DepEd Cebu City Division, through the FY 2022 General Appropriation Act (GAA) intends to apply the sum of Nine Hundred Eight Thousand Five Hundred Pesos and Forty-Seven Centavos (Php 908, 500.47) being the ABC to payments under the contract for (Re-Bidding) Supply and Delivery of Science & Mathematics Equipment (SME) Packages for Public Junior and Senior High School for FY 2022 under SUB-ARO No. OSEC-7-22-0107. Bids received in excess of the ABC shall be automatically rejected at bid opening.

Lot	Project Description	ABC (Php)
Lot 1	(Re-Bidding) Supply and Delivery of Science Learning Tools and Equipment	Php 454,295.97
Lot 2	(Re-Bidding) Supply and Delivery of Mathematics Learning Tools and Equipment	Php 454,204.50

- 2. The *DepEd Cebu City Division* now invites bids for the above Procurement Project. Delivery of the Goods required as stated in Section VI. Schedule of Requirements. 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 nondiscretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
 - a. Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

- 4. Prospective Bidders may obtain further information from *DepEd Cebu City Division* and inspect the Bidding Documents at the address given below during *Mondays to Fridays from 8:00 am 5:00 pm from January 27, 2023 to February 20, 2023.*
- 5. A complete set of Bidding Documents may be acquired by interested Bidders on January 27, 2023 to February 20, 2023 from Mondays to Fridays from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Five Hundred Pesos (Php 500.00) per lot.* The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.
- 6. The *DepEd Cebu City Division* will hold a Pre-Bid Conference¹ on *February 6, 2023 at 9:00 am PhST* at Zapatera *Library, Gabaldon Building, Zapatera Elementary School, Sikatuna St. Cebu City,* which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before *February 20, 2023 at 9:00 am PhST*. 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 *February 20, 2023 at 9:00 am PhST* at Zapatera *Library, Gabaldon Building, Zapatera Elementary School, Sikatuna St. Cebu City.* Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. Prospective Bidders are strongly encouraged to order or download the electronic copy of the Bidding Documents from the PhilGeps website: <u>www.philgeps.gov.ph</u>, for them to be included in the Document Request List of the project. The Bidding Documents may be viewed also at the DepEd Cebu City Official Website, **www.depedcebucity.com**.
- 11. The *DepEd Cebu City 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.
- 12. For further information, please refer to:

MRS. MARILYN E. OPEÑA/ MRS.DARYLL T. YBANEZ DepEd Cebu City Division Imus Ave., Day-as, Cebu City rotchell.repaso@deped.gov.ph/daryll.triumfo@deped.gov.ph Telephone no. (032) 253-9095 / 0995-3693124 Agency website: <u>www.depedcebucity.com</u>

13. You may visit the following websites:

For downloading of Bidding Documents: www.depedcebucity.com / philgeps.gov.ph

January 26, 2023

(Sgd.) LYRA L. ILLAGA, DevEdD BAC Chairman

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, *DepEd Cebu City Division* wishes to receive Bids for the (*Re-bidding*) Supply and Delivery of Science & Mathematics Equipment (SME) Packages for Public Junior and Senior High School for FY 2022 under SUB-ARO No. OSEC-7-22-0107, with identification number DepEdCCD – 2023-01.

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

The Procurement Project (referred to herein as "Project") is composed of 1 lot, 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 FY 2022 General Appropriation Act (GAA) in the amount of Nine Hundred Eight Thousand Five Hundred Pesos and Forty-Seven Centavos (Php 908,500.47).
- 2.2. The source of funding is:
 - a. NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

5.2.

- a. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
 - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
 - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
 - iii. When the Goods sought to be procured are not available from local suppliers; or
 - iv. When there is a need to prevent situations that defeat competition or restrain trade.
- 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.
 - c. For procurement where the Procuring Entity has determined, after the conduct of market research, that imposition of either (a) or (b) will likely result to failure of bidding or monopoly that will defeat the purpose of public bidding: the Bidder should comply with the following requirements: [Select either failure or monopoly of bidding based on market research conducted]
 - i. Completed at most two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and
 - ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

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

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address 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, exwarehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
 - b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers

registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

ii. The price of other (incidental) services, if any, as listed in Section VII (Technical Specifications).

13. Bid and Payment Currencies

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

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration² or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *One Hundred Twenty (120) Calendar Days upon submission of its bid.* 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 original copy and one additional copy of the first and second components of its Bid, without prejudice to the original provision therein.

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

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

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 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 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in Section VII (Technical Specifications), although the ABCs of these lots or items are indicated in the BDS for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows:

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

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

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

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.

ITB	
Clause	
5.3	For this purpose, contracts similar to the Project shall be:
	a. Contract/supply and delivery/purchase/of School Learning/Educational Tools/Equipment/Supplies <i>and other related activity generic to the purpose</i> .
	b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.
12	The price of the Goods shall be quoted DDP in the Philippines.
14.1	 The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: Lot 1 a. The amount of not less than <u>Php 9,085.92</u> 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 <u>Php 22,714.79</u> if bid security is in Surety Bond. Lot 2
	 a. The amount of not less than <u>Php 9,084.09</u> 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 <u>Php 22,710.23</u> if bid security is in Surety
	Bond.
19.3	Project will be awarded by lot (Re-bidding) Supply and Delivery of Science & Mathematics Equipment (SME) Packages for Public Junior and Senior High School for FY 2022 under SUB-ARO No. OSEC-7-22-0107
	ABC: Nine Hundred Eight Thousand Five Hundred Pesos and Forty-Seven Centavos (Php 908,500.47)
20.2	[List here any licenses and permits relevant to the Project and the corresponding law requiring it.]
21.2	[List here any additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity.]

Bid Data Sheet

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 prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

r	Special Conditions of Contract					
GCC						
Clause						
1						
	Delivery and Documents –					
	For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:					
	"The delivery terms applicable to the Contract are DDP delivered [<i>indicate place of destination</i>]. In accordance with INCOTERMS."					
	"The delivery terms applicable to this Contract are delivered <i>[indicate place of destination]</i> . Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."					
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).					
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is <i>DepEd Cebu City Division</i> .					
	Incidental Services –					
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements: <i>Select appropriate requirements and delete the rest.</i>					
	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.					

Special Conditions of Contract

f. [Specify additional incidental service requirements, as needed.]

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

Spare Parts -

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

Select appropriate requirements and delete the rest.

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

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

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of [*indicate here the time period specified. If not used indicate a time period of three times the warranty period*].

Spare parts or components shall be supplied as promptly as possible, but in any case, within [*insert appropriate time period*] months of placing the order.

Packaging –

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

Goods' final destination and the absence of heavy handling facilities at all points
in transit.
The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.
The outer packaging must be clearly marked on at least four (4) sides as follows:
Name of the Procuring Entity
Name of the Supplier
Contract Description Final Destination
Gross weight
Any special lifting instructions
Any special handling instructions
Any relevant HAZCHEM classifications
A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.
Transportation –
Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.
Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.

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

Section VI. Schedule of Requirements

Lot 1 – (Re-Bidding) Supply and Delivery of Science Learning Tools and Equipment (Junior High School and Senior High School)

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

A. Junior High School

Item No.	Description	Quantity	Total	Delivered, Weeks/Mo nths	Place of Delivery
	Flask, Volumetric, borosilicate 250 ml 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. Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solutions up to 250 ml. Design Specifications: 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: 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 a) Material of snap cap: Blue 6. Must meet ASTM E- 694 for volumetric (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 colibrated '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	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City
2	Graduated Cylinder, borosilicate, 10 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 mL capacity Design Specifications: 1. Type: Class A 2.Shape: Narrow cylindrical container with a small turned-out lip 3. Materia I: Borosificate, clear and transparent bubble-free, glass with the following dimensions: 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 6. Graduation interval: 0.1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-delachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap, and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glasswares industry	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City

Graduated Cylinder, borosilicate, 100 ml	5pcs	5pcs	60 calendar	DepEd Cebu
Functional Specifications: Used to measure and to deliver the volume of liquids			days from the date of receipt	City Division,
Performance Specifications: (a) Must be able to measure and to deliver the volume of liquids up to 100 mL capacity (b) Used as a container to determine the volume of irregularly shaped solids by water displacement			of Notice to Proceed/Purch ase Order	New Imus, Brgy. Day- as, Cebu
Design Specifications: 1. Type: Class A				City
 Shape: Narrow cylindrical container with a small turned-out lip Material : Bubble-free, borosilicate, clear and transparent glass with the following dimensions: a) Outside Diameter: 29-31 mm b) Height: 254-256 mm c) Thickness range : 1.3-1.4 mm d) Tolerance: ± 0.60 mL 4. Capacity: 100 mL 				
 5. Graduation range: 5 to 100 mL 6. Graduation Interval : 1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. With single graduated metric scale with plastic bumper guard 11. With glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of 				
 calibration for every item. 13. Placed in bubble wrap, and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glass industry 				
pH Meter, hand-held	5pcs	5pcs	60 calendar	DepEd Cebu
 i) Paper Size: A4 size , 80 gsm ii) Font: Times New Roman iii) Font size: 12 Iv) Orientation:Portrait v) Margins on all sides with 2 point width border line vi) Line with arrow head of 1.25 point with width shall point to the specifi part being labeled 			days from the date of receipt of Notice to Proceed/Purch ase Order	City Division, New Imus, Brgy. Day- as, Cebu City
16. Must be free from sharp edges				
17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small hollow bub filled partly with ethanol and partly with nifragen and ethanol vapoes.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 bubs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings: scale never washes out 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: 30 cm m(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 shorp edges nd other defects 21. Comes with a brand	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City

	Universal pH Paper, H 0-14, 100 strips/pack	13pac	13pac	60 calendar	DepEd Cebu
	Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base	ks	ks	days from the date of receipt	City Division,
	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:			of Notice to Proceed/Purch	New Imus, Brgy. Day-
	a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14; c) For distilled water : pH 7			ase Order	as, Cebu City
	Design Specifications: 1. Type: Test strips 2. Shape: Rectangle				
	3. Material: Cellulose/Paper based 4. Dimension of pH strip : oj 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 7. Packaging: Clear, transparent box 9. Shape of box: Square				
C	 With complete color chart for comparison with the color change to get the pH reading of the sample being tested No sharp edges on box Measures pH 0-pH 14 				
6	12. Comes with a brand	5pcs	5pcs	60 calendar	DepEd Cebu
	Beaker, borosilicate, 1000 ml Functional Specifications: Used to serve as container for mixing and for heating liquids.	Spes	Spes	days from the date of receipt	City Division,
	Performance Specifications: Must be able to serve as container for mixing and for heating liquids.			of Notice to Proceed/Purch	New Imus, Brgy. Day-
	Design Specifications: 1.Griffin type, borosilicate, transparent, bubble-free glass			ase Order	as, Cebu City
	 Shape: a cylindrical container with flat bottom Thickness range: 1.5 mm to 2.0 mm 				
	4. Permanent white graduations, with white enamel marking spot				
	 Features an easy-pour spout Capacity: 1000 mL; ± 10% enameled onto the glass 				
	7. Single graduated metric scale				
	 6. 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				
7	12. Safely packed in a compartmentalized box		_	(0 1 1	D FIGI
	Dish, Petri (Pyrex)	5pcs	5pcs	60 calendar	DepEd Cebu
	Functional Specifications: Used to secure the specimen under study.			days from the date of receipt	City Division,
	Performance Specifications: Must be able to secure the specimen under study.			of Notice to	New Imus,
	Design Specifications:			Proceed/Purch ase Order	Brgy. Day- as, Cebu
	1. Reusable, borosilicate, circular glass with beaded edge:			ase Older	city
	2. Bubble-free, plain surface 3. Outside Diameter of Cover: 100 mm±2 mm;				City
	4. Outside Diameter of Dish: 92 mm ± 2 mm;				
	5. Overall height with cover (as assembled): 20 mm ± 2 mm				
	 Glass thickness range: 2 mm to 2.2 mm There must be no cracks and sharp edges 				
8	 References and sharp edges Safely packed in a compartmentalized box 				
0	Beaker, borosilicate, 250 ml	5pcs	5pcs	60 calendar	DepEd Cebu
	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	5663	5003	days from the date of receipt	City Division,
	Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service			of Notice to Proceed/Purch	New Imus, Brgy. Day-
	Design Specifications: 1. Type : Griffin,low form 2. Shope: Cylindical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with			ase Order	as, Cebu City
	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 enmeted 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 ±5% etched onto the glass;" 9. With marking graduation to file: starts at 25 mL in 25mL increments				
	 With marking graduation to empty: starts at 0 mL in 25 mL increments Graduation interval: 25 mL Graduation range: 25 mL to 200 mL Graduation range: 25 mL to 200 mL Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentatized 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				

	 Beaker, borosilicate, 500 ml Functional Specifications: allused 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 ignifion. 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. Design Specifications: 1. Type: Berzellius, tail form 3. Material : Borositicate, clear, bubble free glass , Berzellius, tail 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 d) Height range: 135 etched/embossed onto the glass s. With large white marking spot With large white marking spot With large white marking spot Marked to fill: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 50 mL in 50 mL increments Can withstand heating up to 200-230°C for normal, standard use service Witapped in paper, enclosed in bubble wap and packed individually in a compartmentaized box 	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City
10	Burner, Alcohol, glass, 150 ml Capacity Functional Specifications: Used to produce hot, consistent open frame for slow/genite heating of glasswares and substances Performance Specifications: Must be able to produce hot, consistent open frame alfor slow/genite heating of glasswares and substances Black with the heating of glasswares and substances Black heating the identity of an unknown metallicities on the Burnsen frame to investigate reactions of lons and apply these in qualitative analysis through an activity, on frame Test Black heating black heating without breaking Chaterial study, heavy walled, clear, transparent, bubble-free glasswith the following dimensions Chaterial Study, heavy walled, clear, transparent, bubble-free glasswith the following dimensions Black heatier permanentity attached to a threaded base Chaterial of wick holder and cover/caps : Nacket- plated base Black heatier permanentity attached wick perfectly filted to the wick the Black heating (1) pc conton fiber/strand braided wick perfectly filted to the wick theate: B	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City

	Mortar and Pestle, porcelain, 150 ml	5pcs	5pcs	60 calendar	DepEd Cebu
	Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle	.	.	days from the	City
	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 alsolving and speeds up the rate of reaction because the surface area of the reactant has been increased.			date of receipt of Notice to Proceed/Purch	Division, New Imus, Brgy. Day-
	Design Specifications: A. Mortar 1. Shape of mortar : Bowl shape, with wide mouth , and with deeply			ase Order	as, Cebu City
	 shape of montar: sow shape, with wate mouth, and with deeply molded, smooth rounded bottom Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter: 130 mm ± 1 mm 				2
	b) Depth : 65 mm c) Flat bottom : 87 mm 3. Capacity: 150 mL				
	 With pouring lip With unglazed grinding surface (interior) and uniformly glazed exterior Pesite: 				
	 6. Shape of pestle: Cylindrical awith bulbous bottom with the following dimensions: 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 				
12	 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 				
12	Rubber Stopper # 6 for Erlenmeyer Flask narrow-mouth	5pcs	5pcs	60 calendar	DepEd Cebu
	250 ml, 1 hole Functional Specifications: Used to seal the openings of narrow mouth 250 ml. Ertenmeyer flasks and other laboratory glassware that require a fighter 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.	Spes	Spts	days from the date of receipt of Notice to Proceed/Purch ase Order	City Division, New Imus, Brgy. Day- as, Cebu City
	Performance Specifications: Must be able to seal the openings of narrow mouth 250 mL Erfenmeyer 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.				
	Design Specifications: 1. Shape: Cylindrical with a tapered bottom end 2. Material : Premium grade SBR black rubber compound with the following dimensions:				
	a) Height: 25 mm b) Top Ø: 32 mm				
	c)Bottom Ø : 26 mm				
	d) Hole Ø; 5 mm				
	 Number of holes :With one (1) hole Dimension tolerance on height, top and bottom diameter : ± 0.5 mm 				
	5. Hardness : 40 ± 5 Duro				
13	 Packed in resealable plastic bag Comes with a brand 				
	Test tube brush	5pcs	5pcs	60 calendar	DepEd Cebu
	Functional Specifications: Used to clean test tubes and other small sized glasswares			days from the date of receipt	City Division,
	Performance Specifications: Must be able to clean test tubes and other small-sized glasswares with densety filled radial tip and head brush to make complete contact with walls, corners and bottom.			of Notice to Proceed/Purch ase Order	New Imus, Brgy. Day- as, Cebu
	Design Specifications: 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom.				City
	 Material of bristles: Medium stiff nylon with the following dimensions: 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 reseable plastic bag				
	7. Must be free from sharp metal parts				
14	8. Comes with a brand				

	Test Tube, borosilicate, 16 mm x 150 mm Ion			60 calendar	DepEd Cebu
	Functional Specifications: Used to contain/hold a small chemical			days from the	City
	reaction, to mix small quantities of solids and liquids, and to heat small quantities of substances			date of receipt	Division,
	dournines of sousicinces			of Notice to	New Imus,
	Performance Specifications: Must be able to contain/hold a small			Proceed/Purch	Brgy. Day-
	chemical reaction and , mixes solids and liquids, heats small quantity of substances up to more than 100°C over a Bunsen burner's flame			ase Order	as, Cebu
				use ofder	City
	Design Specifications:				City
	 Shape : Fingerlike length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded "U" shaped bottom 				
	Material of test tube: Borosilicate, clear, transparent and bubble- free, glass, with rim with the following dimensions:				
	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)				
	 With large, white enamel marking spot With permanent graduation of approx, volume and inscriptions in 				
	high contrast white enamel.				
	 Can withstand heating up to 150°C for normal, standard use service 				
	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 comprimentalized 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				
5	wares industry	50pcs	50pcs		
	Vial, screw-neck, 50 ml with screw-t			60 calendar	DepEd Cebu
	Functional Specifications: Used to hold/contain/store/mix small			days from the	City
	quantities of samples/ solutions/ substances up to 50 mL			date of receipt	Division,
	Performance Specifications: Must be able to hold/contain/store/mix			of Notice to	New Imus,
	samples/solutions/substances up to 50 mL			Proceed/Purch	Brgy. Day-
	Design Specifications:			ase Order	as, Cebu
	 Type: Wide mouth Shape : Bottle-like shape with a threaded neck, screw cap 				City
	polypropylene closure and with a flat bottom				
	 Material : Borosilicate, clear, transparent, and bubble-free glass with the following of exercises. 				
	a) Outside Diameter : 25 mm to 30 mm				
	b) Length: 100 mm to 108 mm				
	4. Capacity: 50 mLWith 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				
	 Must be free from breakage, cracks , chipped rims and other defects 				
6	15. Comes with a brand	24pcs	24pcs		
, 	Watch Glass, Ø 90 mm	24005	2-1005	60 calendar	DepEd Cebu
	Functional Specifications: Used to:			days from the	City
	a) cover glasswares like beakers			date of receipt	Division,
	b) evaporates solvents in a sample and			of Notice to	New Imus,
	c) holds/contains liquids and solids prior to heating.				
	c) holds/contains liquids and solids prior to heating.			Proceed/Purch	Brgy. Day-
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers 			Proceed/Purch ase Order	as, Cebu
	c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and				
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers 				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 				as, Cebu
	c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm 				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: Shape: Circular concave Material : Borosilicate, clear and bubble-free glass with the following dimensions: Diameter: 90 mm ± 1 mm Thickness range : 1.5 mm to 2 mm 				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range : 1.5 mm to 2 mm 3. Fire-pollshed rims/edge. 				as, Cebu
	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: Shape: Circular concave Material: Borosilicate, clear and bubble-free glass with the following dimensions: Diameter: 90 mm ± 1 mm Thickness range : 1.5 mm to 2 mm Fire-pollshed rims/edge. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a study box. 				as, Cebu
7	 c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: Shape: Circular concave Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range : 1.5 mm to 2 mm 3. Fire-polished rims/edge. 				as, Cebu

		1	[60 calendar	DepEd Cebu
					1
				days from the	City
				date of receipt	Division,
	Lens Paper, 50's/pack			of Notice to	New Imus,
				Proceed/Purch	Brgy. Day-
				ase Order	as, Cebu
18		5packs	5packs		City
	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905			60 calendar	DepEd Cebu
	Functional Specifications: Used to filter/separate mixtures solids from			days from the	City
	liquids			date of receipt	Division,
				of Notice to	New Imus,
	Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures			Proceed/Purch	Brgy. Day-
	(solids from liquids)			ase Order	as, Cebu
				use ofder	City
	Design Specifications:				City
	1. Type: Technical use				
	2. Shape of filter paper : Square				
	Material: Cellulose with the following dimensions:				
	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	10shee	10.1		
19	10. Comes with a brand		10sheet		
15		ts	S	(0 1 1	D ELCI.
	Nichrome wire. 0.4, 100 ft (1 spool per package = 1.1 oz			60 calendar	DepEd Cebu
	minimum with spool)			days from the	City
	Functional Specifications: Used as a wire loop and heating element			date of receipt	Division,
	on which a metal salt or solid lonic compound is made to adhere into it and is heated to emit a characteristic color on the Bunsen flame to			of Notice to	New Imus,
	identify the particular metal present in the compound			Proceed/Purch	Brgy. Day-
				ase Order	as, Cebu
	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				City
	begted 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				
	Design Specifications:				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions:				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium. Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium. Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot				
	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws.	13spo	13spo		
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned, Zero elongation, scratches, or other flaws. 8. Comes in a spool	13spo ol	13spo ol		
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch	-	-	60 calendar	DepEd Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle	-	-	60 calendar days from the	DepEd Cebu City
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ff 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand	-	-		1
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing	-	-	days from the	City
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle	-	-	days from the date of receipt of Notice to	City Division, New Imus,
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day-
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing	-	-	days from the date of receipt of Notice to	City Division, New Imus, Brgy. Day- as, Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications:	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day-
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day- as, Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day- as, Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day- as, Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned, Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Pesign Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day- as, Cebu
20	Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned. Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a reseatable plastic pouch 10. Comes with a brand Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Pesign Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: 6" (150-152.4 mm) long	-	-	days from the date of receipt of Notice to Proceed/Purch	City Division, New Imus, Brgy. Day- as, Cebu

 Globe, Terrestrial			60 calendar	DepEd Cebu
Functional Specifications: Used to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy			days from the date of receipt of Notice to	City Division, New Imus,
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			Proceed/Purch ase Order	Brgy. Day- as, Cebu City
Design Specifications:				City
 Primarily used as a reference to geographical & political information Globe diameter; minimum of 12 inches, Shows the following: 				
(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. (i) 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	10unit	10unit		D. El C.I.
Musical Instrument (Miniature Guitar)			60 calendar days from the	DepEd Cebu City
Functional Specifications: Used to demonstrate musical application of			date of receipt	Division,
standing waves			of Notice to Proceed/Purch	New Imus, Brgy. Day-
Performance Specifications: Should be able to demonstrate musical application of standing waves			ase Order	as, Cebu City
Design Specifications:				
1. Mini acoustic type, half-size guitar, any color, surface finish: varnish				
2. Made of good quality wood without sign of warp				
 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	10pcs	10pcs		
Set of Tools: Ball Peen Hammer, handle length is 11-inch,		•	60 calendar	DepEd Cebu
350g approx. weight, 1 pc/set			days from the	City
Functional Specifications: Used to peen dent surfaces in metals			date of receipt of Notice to	Division, New Imus,
Performance Specifications: Should be able to to peen dent surfaces in metals			Proceed/Purch ase Order	Brgy. Day- as, Cebu City
Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc. /set	13sets			
Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set				
Functional Specifications: Used to bend tiny solid wire connectors				
Performance Specifications: Should be able to bend tiny solid wire connectors		13sets		
Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set				

pair/set		
Functional Specifications: Used to bend large wires		
Performance Specifications: Should be able to bend large wires		
Design Specifications: Mechanical-Wire Cutter and Pliers, 6 1/2 inches, chrome vanadium material, 1 pair/set		
Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set		
Functional Specifications: Used to drive precision screws		
Performance Specifications: Should be able to to drive precision screws		
Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips, 3 flats)/set, with plastic casing, 1 set		
Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set	-	
Functional Specifications: Used to drive flat head screws		
Performance Specifications: Should be able to drive that head screws		
Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches long, chrome variadium material, 1 pc. /set:		
Set of Tools: Soldering Iron, 60 watts, 1 pc/set Functional Specifications: Used to heat electrical contacts for permanent joints Performance Specifications: Should be able to heat electrical contacts for permanent joints		
Design Specifications: Soldering Iron, 60 watts, small type, wooden handle, 1 pc. /set;		
Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 Ib/spool, 1 spool/set		
Functional Specifications: Used to provided permanent joint for different electrical components		
Performance Specifications: Used to provided permanent joint for different electrical components		
Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1 Ib./spool, 1 spool/set		
Set of Tools: Soldering Paste, 50 grams/can, 1 can/set	1	
Functional Specifications: Used to provide better adhesion of solder lead to electrical joints		
Performance Specifications: Used to provide better adhesion of solder lead to electrical joints		

	6.5-inch long, 1 pair/set Functional Specifications: Used to hold and pick tiny electronics				
	components				
	Performance Specifications: Used to hold and pick tiny electronics components				
	Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2 inches long, 1 pair/set;				
	Glass Cover Slips, 100's/box			60 calendar	DepEd Ceb
	Functional Specifications: Used to secure the wet mount sample specimen,			days from the date of receipt of Notice to	City Division, New Imu
	Performance Specifications: Must be able to secure the wet mounted sample specimen.			Proceed/Purch ase Order	Brgy. Da
	Design Specifications:				City
	1. Pre-cleaned cover glasses and not slicking 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				
	δ. There shall be no chipped edges				
25	7. Safely packed in a plastic box	26 boxes	26 boxes		
	Glass Slides, 72's/box			60 calendar	DepEd Cel
	Functional Specifications: Used to contain the specimen for examination under the microscope.			days from the date of receipt	City Division,
	Performance Specifications: Must be able to accommodate the specimen subject for examination under the microscope.			of Notice to Proceed/Purch ase Order	New Imu Brgy. Da as, Cel
	Design Specifications:			ase Older	as, Cel City
	 Clear, flat glass; free from moisture, dirt, and film; No color, no frost and no chipped edges 				City
	3. Dimension: 75 mm (±1 mm) x 25 mm (± 1 mm);				
	4. Thickness: 1.1 mm (± 0.1 mm)				
	 No sharp edges and pointed corners Packed in a box containing 72 slides with thin paper sheets in 	26	26		
26	between them	boxes	boxes	(011	DerEd Cal
				60 calendar days from the	DepEd Cel City
				date of receipt	Division,
				of Notice to	New Imu
	Compass, Magnetic			Proceed/Purch	Brgy. Da
	Functional Specifications: Used to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic			ase Order	as, Cel
	field				City
	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				
	Design Specifications:				
	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				
					1
7	•	12	12		
27		13 pcs	13 pcs	60 calendar	DepEd Cel

	Functional Specifications: Used to transfer/dispense liquid samples.			date of receipt	Division,
	Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL.			of Notice to Proceed/Purch ase Order	New Imus, Brgy. Day- as, Cebu
	Design Specifications: 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				City
	5. With molded graduations				D. El al
	Gloves, Hand, super nitrile			60 calendar days from the	DepEd Cebu City
	Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes			date of receipt	Division,
	Performance Specifications: Must be able to protect hands against mechanical risks, microrganisms, chemical burns and splashes			of Notice to Proceed/Purch	New Imus, Brgy. Day-
	Design Specifications: 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: a)Length of gloves : 13 inches (330.2 mm) min b)Thickness: 0.38 -0.52 mm (min)			ase Order	as, Cebu City
	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				
	 Puncture resistant With detailed imprints on each glove, on the following: 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 [EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 				
29	12. Individually packed in resealable plastic bag 13. Comes with a brand	50 pcs	50 pcs		
	Flashlight with incandescent bulb Functional Specifications: Used to provide illumination on the surface of a globe model Performance Specifications: Should be able to provide illumination on the surface of a globe model			60 calendar days from the date of receipt of Notice to Proceed/Purch ase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu
	Design Specifications: 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				City
30	6. Body: high impact resin construction 7. Must be branded	26 pcs	26 pcs		
	Lamp, Desk, Heavy Base	P		60 calendar days from the date of receipt of Notice to Proceed/Purch	DepEd Cebu City Division, New Imus, Brgy. Day-
31		13 pcs	13 pcs	ase Order	as, Cebu City

Functional Specifications: Used to provide heat and illumination of specimen under study		
Performance Specifications: Should be able to provide heat an illumination on specimen under study	d	
Design Specifications:		
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 Yellor	w	
Light bulb		
 Capacity: 100 watts Preferable ungrounded plug (If the plug is grounded, an adapted) 		
should include in the item.)		
8. With English User's Manual that includes Operation Guide		
9. Should be branded		

B. Senior High School

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
110.	Flask, Volumetric, borosilicate 250 ml	10pcs	10pcs	60 calendar days	DepEd Cebu City
	Functional Specifications: Used to measure/prepare/conta precise volume of standard solutions at a certain temperature precise dilution of solutions up to 250 mL Performance Specifications: Must be able measure/prepare/contain a precise volume of standard solutions			from the date of receipt of Notice to Proceed/Purchase Order	Division, New Imus, Brgy. Day- as, Cebu City
	certain temperature and precise dilution of solutions up to 250 mL Design Specifications: 1. Type: Class A 2. Shape : A round or pear-shaped bulb, a long thin neck topped snap cap and with flat bottom 3. Material of body: Borosilicate , clear, transparent and bubble- glass with the following dimensions: a) Height: 225 mm b) Outside diameter : 78 mm (approx.) c) Size: 250 mL d) Tolerance: ± 0.12 mL 4. With heavy duty tim 5. Comes with snap cap 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-544 calibrated 'to contain' (marked 'tC' or 'tN') 8. Manufacturer should be accredited by NIST standards c equivalent to the country of origin to certify that their items calibrated. 9. Must be free from breakage, cracks, sharp rims and other defect 10. Packaging : Roll up glassware in newspaper and secure wi place of masking tape and place in a bubble pouch and individ packed in a sturdy box.				
1	 Comes with a brand, with five (5) years existence in the glassw industry. 				
	Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 mL capacity Design Specifications: 1.Type: Class A 2.Shape: Narrow cylindrical container with a small turned-out lip 3. Materia I: Borosticate, clear and transparent bubble-free, glass with the following dimensions : a) Outside Diameter:13-14 mm b) Height: 177-178 mm c) Thickness range :1.3-1.4 mm d) Toterance: ± 0.20 4. Capacity: 10 mL 5. Graduation interval : 0.1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white ename! 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of colibration for every item. 13. Placed in bubble wrap,and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glasswares industry.	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	
2		10pcs	10pcs	60 calendar days from the date of receipt of Notice to	Imus, Brgy. Day-
3	Graduated Cylinder, borosilicate, 100 ml			Proceed/Purchase Order	as, Cebu City

	Functional Specifications: Used to measure and to deliver the volume				
	of liquids				
	Performance Specifications:				
	 a) Must be able to measure and to deliver the volume of liquids up to 				
	100 mL capacity b) Used as a container to determine the volume of irregularly shaped				
	solids by water displacement				
	Design Specifications:				
	1. Type: Class A				
	 Shape: Narrow cylindrical container with a small furned-out lip Material : Bubble-free, borosilicate, clear and transparent glass with 				
	the following dimensions:				
	a) Outside Diameter: 29-31 mm				
	b) Height: 254-256 mm				
	c) Thickness range :1.3-1.4 mm				
	d) Tolerance: ± 0.60 mL				
	4. Capacity: 100 mL				
	5. Graduation range: 5 to 100 mL 6. Graduation Interval : 1 mL				
	7. Calibrated to deliver (TD)				
	8. All markings are in permanent white enamel				
	9. With pouring spout				
	10. Whith single graduated metric scale with plastic bumper guard				
	11. With glass hexagonal base (non-detachable)				
	12. Manufacturer of the country of origin should issue certificate of				
	calibration for every item. 13. Placed in bubble wrap,and packed individually in a				
	compartmentalized box				
	14. Must be free from breakage, cracks and sharp rim				
	 Comes with a brand, with five (5) years existence in the glass industry. 				
		10	10	60 aplandar 1	DonEd Cabr Cit
		10pcs	10pcs		DepEd Cebu City
	Thermometer, Laboratory type, Alcohol, -200C to			from the date of	Division, New
				receipt of Notice to	Imus, Brgy. Day-
	1100C				
	Functional Specifications: Used to measure the temperature			Proceed/Purchase	as, Cebu City
	runctional specifications: used to measure the temperature			Order	
	Performance Specifications: Must measure the temperature , -20° to				
	110°C				
	Design Specifications:				
	1. Type: Alcohol filled, partial immersion thermometer				
	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-filed 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 				
	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				
	 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 nd				
4	other defects				
<u> </u>	21. Comes with a brand	10 1	10 .	(0 1 1 1	
	Universal H Paper, pH 0-14, 100 strips/pack	10packs	10packs	60 calendar days	
	Functional Specifications: Used as an indicator to determine/measure			from the date of	Division, New
	functional Specifications: Used as an indicator to determine modulo of the pH of substances, whether it is an acid, neutral or a base			receipt of Notice to	Imus, Brgy. Day-
	ete man dittan en ere ere i				
	Performance Specifications: Must be used as an indicator to effect a			Proceed/Purchase	as, Cebu City
	color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH			Order	-
	color chart provided, which corresponds to:			-1401	
	a) For an acid : pH 0-pH 6;				
	b) For a base : pH 8-pH 14;				
	c) For distilled water : pH 7				
	Design Specifications'				
	Design Specifications: 1. Type: Test strips				
	2. Shape: Rectangle				
	3. Material: Cellulose/Paper based				
	4. Dimension of pH strip :				
	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				
	7. Packaging: Clear, transparent box				
	8. Shape of box: Sauare				
	 With complete color chart for comparison with the color change to get the pH reading of the sample being tested 				
1	10. No sharp edges on box				
1		1	1		
5	11. Measures pH 0-pH 14				
5	11. Measures pH 0-pH 14 12. Comes with a brand				

				(0 1 1 1	$\mathbf{D} = \mathbf{E} 1 + \mathbf{C} 1 + \mathbf{C} 1$
1	Filter Paper, crepe, 580mm x 580 mm sheet, Grade			60 calendar days from the date of	DepEd Cebu City Division, New
	0905				
	Functional Specifications: Used to filter/separate mixtures solids from liquids			receipt of Notice to Proceed/Purchase	Imus, Brgy. Day- as, Cebu City
				Order	us, coou ony
	Performance Specifications: Must be able to filter solids from liquids to			order	
	demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids)				
	(solids norm indolas)				
	Design Specifications:				
	1. Type: Technical use				
	2. Shape of filter paper : Square				
	3. Material: Cellulose with the following dimensions:				
	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	100	100		
6	9. Packed in brown filter paper tube	sheets	sheets		
0	10. Comes with a brand	sheets	sheets	60 aalan dan daya	DanEd Calay City
	Triangular File, fine, 6-inch long, with plastic handle			60 calendar days from the date of	DepEd Cebu City Division, New
	Functional Specifications: Used to cut the glass tubing			receipt of Notice to	Imus, Brgy. Day-
	Badamana frantices that he able is and the shire he is			Proceed/Purchase	as, Cebu City
	Performance Specifications: Must be able to cut the glass tubing			Order	as, Cebu City
	Design Specifications:			Order	
	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				
7	8. Comes with a brand	10pcs	10pcs		
				60 calendar days	DepEd Cebu City
				from the date of	Division, New
	Paakar haraciliaata 250 ml			receipt of Notice to	Imus, Brgy. Day-
	Beaker, borosilicate, 250 ml			Proceed/Purchase	as, Cebu City
	Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen				,
				Order	, <u>,</u>
1	burner's flame up to more than 150°C for normal, standard use service			Order	, <u>,</u>
	burner's flame up to more than 150°C for normal, standard use service			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service			Order	
	 burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: Type : Griffin, low form 			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications:			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Burnsen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 20 mm 4. With permanent while enamel graduations of approximate			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 3. Material: Barosilicate, 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 while enamel graduations of approximate volumes, inscriptions and markings enmeled onto the glass 5. With large while marking spot 6. Features an easy-pour spout 7. "With double graduated metric scale *			Order	
	burner's flame up to more than 150°C for normal, standard use service 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 Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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			Order	. ,
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin.low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 while 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 ±5% 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			Order	. ,
	 burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: Type : Griffin, low form Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak") to aid pouring Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: Outside Diameter: 68 mm to 70mm Height: 90 mm to 92 mm With permanent while enamel graduations of approximate volumes, inscriptions and markings enmeted onto the glass With large while marking spot Features an easy-pour spout With houble graduation to fill: starts at 25 mL in 25mL increments With marking graduation to empty: starts at 0 mL in 25 mL increments 			Order	. ,
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 ±5% 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 range: 25 mL to 200 mL			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 while enamel graduations of approximate volumes, inscriptions and markings enmeled onto the glass 5. With large while marking spot 6. Features an easy-pour spout 7. "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 to 200 mL 13. Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box			Order	
	 burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: Type : Griffin, low form Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak") to aid pouring Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: Outside Diameter: 68 mm to 70mm Height: 90 mm to 92 mm Thickness: 1.5 mm to 2.0 mm With permanent while enamel graduations of approximate volumes, inscriptions and markings enmeted onto the glass With large white marking spot Features an easy-pour spout With marking graduation to fill: starts at 25 mL in 25mL increments With marking graduation to empty: starts at 0 mL in 25 mL increments With marking graduation to empty: starts at 0 mL in 25 mL Graduation interval: 25 mL to 200 mL Graduation interval: 25 mL 200 mL 			Order	
	burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin, low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 while enamel graduations of approximate volumes, inscriptions and markings enmeted 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 ±5% 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 interval: 25 mL 13. Wrapped in paper, enclosed in bubble wrap and packed inalvidually in compartmentalized box 14. Con withstand heating up to 200-230°C for normal, standard use service 15.Must be free from breakage, cracks, chipped rims and other defects			Order	
8	 burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bursen burner's flame up to more than 150°C for normal, standard use service Design Specifications: Type : Griffin, low form Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: Outside Diameter: 68 mm to 70mm Height: 90 mm to 92 mm Thickness: 1.5 mm to 2.0 mm With permanent white enamel graduations of approximate volumes, inscriptions and markings enmeled onto the glass With large white marking spot Features an easy-pour spout "With marking graduation to fill: starts at 25 mL in 25mL increments With marking graduation to empty: starts at 0 mL in 25 mL increments With marking graduation to empty: starts at 0 mL in 25 mL increments Graduation interval: 25 mL to 200 mL Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box Can withstand heating up to 200-230°C for normal, standard use service 	100 pcs	100 pcs	Order	

	Beaker, borosilicate, 500 ml	10pcs	10pcs	60 calendar days	DepEd Cebu City
	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			from the date of receipt of Notice to Proceed/Purchase	
	Instead of an open flame to prevent ignition. 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			Order	as, Cebu City
	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. Design Specifications: 1. Type: Berzellius, tall form				
	 Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or 'beak") to aid pouring 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 11.5 mm to 2.0 mm 4. Capacity :500 mL : ± 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 7. With easy pour spout 				
	B. Double graduated metric scale Marked to fil: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 0 mL in 50 mL increments Can withstand heating up to 200-230°C for normal, standard use service L2. Wrapped in paper, enclosed in bubble wrap and packed				
9	individually 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	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase	Division, New Imus, Brgy. Day-
				Order	as, Cebu City
	Burner, Alcohol, lass, 150 ml Capacity				
	Functional Specifications: Used to produce hot, consistent open frame for slow/gentile heating of glasswares and substances				
	Performance Specifications: Must be able to produce hot, consistent open flame after slow/gentile heating of glasswares and substances b[can withstand prolonged heating without breaking c] visually determine the identity of an unknown metal or metalloid ion based on the characteristic color the chemical/salt emits on the Bunsen flame to investigate reactions of ions and opply these in				
	qualitative analysis through an activity, on Flame Test d) bend a glass tubing e) heat, to starlize, to accelerate, and to trigger chemical reactions, f) for combustion purposes and techniques				
	Design Specifications: 1. Shape : A globe-shaped body and flat base (bottom) with threaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free glasswith the following dimensions				
	a) Outside Diameter : 80 mm to 85 mm b) Total height: 100 mm to 105 mm 3. Capacity : 150 mL 4. With wick holder permanently attached to a threaded base of Material of wick holder and cover/caps : Nickel- plated brass				
	 b) Type of wick holder: Threaded 5. With ane (1) pc cotton fiber/strand braided wick perfectly fitted to the wicktube 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 snutt/snap-on cover/cap 7. With ten (10) pc replacement brokded catton fiber/strand wicks 5. Wrapped in paper , enclosed in bubble wrap and packed in 				
10	 Include an appendix and appendix appendix appendix and appendix appendi				

	Dish, Evaporating, 75 ml	10pcs	10pcs	60 calendar days	DepEd Cebu City
	Functional Specifications: Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leave residual chemical solute 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, driving off the water to leave residual chemical solute			from the date of receipt of Notice to Proceed/Purchase Order	Division, New Imus, Brgy. Day- as, Cebu City
	 Design Specifications: 1. Shape: Deep form, broad, and wider at the top than bottom and with round bottom with pouring lip/spout 2. Material : Porcelain, with the following dimensions: 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 glazed outside except bottom surface. 7. Must be free from breakage, cracks,chipped rims and other defects 8.Wrapped In paper, and packed ina sturdy box 				
	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 Functional Specifications: Used to : ml a) contain/hold a small chemical reaction, b) mix solids and liquids, c)heat substances over a Bunsen/alcohol burner's flame up to over 150 °C or d)collect them in a titration/distillation experiment Performance Specifications: Must be able to: 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 to 250 mL. or Design Specifications: 1. Shape : A conical bady, 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: 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 : ±6% and other inscriptions enamelled onto the glass 3. Capacity: 250 mL capacity 4. Graduation range: 50 mL-200 mL 5. Graduation interval: 25 mL 6. Graduation starts at: 50 mL in 25 mL	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City
12	 With uniform wall thickness With heavy duty beaded rim With permanent durable white enamel graduations with large, white enamel marking spot Can withstand heating up to150°C for normal, standard use service Wrapped in paper and individually packed in a compartmentalized box Must be free from breakage, cracks,chipped rims and other defects Comes with a brand with five (5) years of existence in the glass wares industry 				

 Mortar and Pestle, porcelain, 150 ml	10pcs	10pcs	60 calendar days	DepEd Cebu City
Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle			from the date of	Division, New
			receipt of Notice to	Imus, Brgy. Day-
Performance Specifications: Must be able to pulverize/mash/grind and mixes materials in a mortar using a pestle to demonstrate how			Proceed/Purchase	as, Cebu City
particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and			Order	· ·
speeds up the rate of reaction because the surface area of the reactant has been increased.				
Design Specifications:				
A. Mortar				
 Shape of mortar : Bowl shape, with wide mouth , and with deeply molded, smooth rounded bottom 				
Material for mortar and pestle: Porcelain with the following dimensions:				
a) Outside diameter : 130 mm ± 1 mm b) Depth : 65 mm				
c) Flat bottom : 87 mm				
3. Capacity: 150 mL 4. With pouring lip				
With unglazed grinding surface (interior) and uniformly glazed exterior				
 Pestle: Shape of pestle: Cylindrical awith bulbous bottom with the following 				
dimensions:				
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				
 The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box 				
 Must be free from breakage, cracks, chipped parts and other defects 				
11. Comes with a brand				
Rubber Stopper #6 for Erlenmeyer Flask narrow-				DepEd Cebu City
mouth 250 ml, 2 holes			from the date of	
Functional Specifications: Used to seal the openings of narrow mouth			receipt of Notice to	Imus, Brgy. Day-
250 mL Erlenmeyer flasks and other laboratory glassware that require a fighter seal or a greater degree of chemical resistance with one 11			Proceed/Purchase	as, Cebu City
hole opening for insertion of a thermometer, glass tubing or stirrer for			Order	
use during chemical reaction .to prevent leaks, hazards and contamination.				
contamination.				
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.				
Design Specifications:				
 Shape: Cylindrical with a tapered bottom end Material : Premium grade SBR black rubber compound with the 				
following dimensions:				
a) Height: 25 mm				
b) Top Ø: 32 mm c)Bottom Ø : 26 mm				
d) Hole Ø; 5 mm				
3. Number of holes :With one (1) hole				
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	30 pcs	30 pcs		
Test tube brush			60 calendar days	
Functional Specifications: Used to clean test tubes and other small			from the date of	Division, New
sized glasswares			receipt of Notice to	Imus, Brgy. Day-
Performance Specifications: Must be able to clean test tubes and			Proceed/Purchase	as, Cebu City
other small-sized glasswares with densely filled radial tip and head			Order	
brush to make complete contact with walls, corners and bottom.				
Design Specifications:				
1. Shape of bristles: Radial tufted tip bristles and brush head to make				
complete contact with walls, corners and bottom.				
Material of bristles: Medium stiff nylon with the following dimensions:				
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 reseable plastic bag				
7. Must be free from sharp metal parts 8. Comes with a brand	26 pcs	26 pcs		
passes man million brand	20 063	1 20 pts		

	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 Performance Specifications: Must be able to contain/hold a small chemical reaction and , mixes solids and liquids, heats small quantities of substances up to more than 100°C over a Bunsen burner's flame Design Specifications: Must be able to contain/hold a small chemical reaction and , mixes solids and liquids, heats small quantities of substances up to more than 100°C over a Bunsen burner's flame Design Specifications: 1. Shape : Fingetike 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: Boroslikate , clear, transparent and bubble-free, glass, with rim with the tollowing dimensions: a) Diameter: 16 mm diameter b) Thickness: 1.3 - 1.4 mm c) Length: 150 mm long 3. Copacity: 20 ml. 4. With heavy uniform wall thickness, excellent heat resistance 5. Test tubes must be reusable (not disposable) 6. With large, white ename! marking spot 7. With permanent graduation of approx, volume and inscriptions in high contrast white ename! 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 fisue paper, enclosed in bubble wrap and packed in comprimentalized box			60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day- as, Cebu City
16	defects 12. Comes with a brand with five (5) years of existence in the glass	50	50		
16	wares industry	50 pcs	50 pcs	(0	DepEd Cebu City
17	Vial, screw-neck, 50 ml with screw-type plastic cap) Functional Specifications: Used to hold/contain/store/mix small quantities of samples/ solutions/ substances up to 50 ml. Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 ml. Design Specifications: 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: 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	65pcs	65pcs	from the date of receipt of Notice to Proceed/Purchase Order	Division, New

18	Watch Glass, Ø 90 mm Functional Specifications: Used to: a) cover glasswares like beakers b) evaporates solvents in a sample and c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range : 1.5 mm to 2 mm 3. Fire-pollshed rims/edge. 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box 5. Must be free from breakage, cracks, chipped edges and other defects 6. Comes with a brand	26 pcs	26 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Division, New Imus, Brgy. Day- as, Cebu City
	 Set of Tools: Ball Peen Hammer, handle length is 11- inch, 350g approx. weight, 1 pc/set Functional Specifications: Used to peen dent surfaces in metals Performance Specifications: Should be able to to peen dent surfaces in metals Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc. /set Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set Functional Specifications: Used to bend tiny solid wire connectors Performance Specifications: Long Nose Pliers with side cutter, 6 inches long. chrome vanadium material, 1 pair/set Set of Tools: Mechanical Wire Cutter and Pliers, 6.5- inch, 1 pair/set Functional Specifications: Used to bend large wires Performance Specifications: Should be able to bend large wires Design Specifications: Used to bend large wires Performance Specifications: Should be able to bend large wires Performance Specifications: Mechanical-Wire Cutter and Pliers, 6 1/2 inches, 	13 sets	13 sets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	· ·
19	<u>chrome vanadium material, 1 pair/set</u> Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set Functional Specifications: Used to drive precision screws Performance Specifications: Should be able to to drive precisio screws Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips, Itats)/set, with plastic casing, 1 set Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set Functional Specifications: Used to drive flat head screws Performance Specifications: Should be able to drive flat head screws Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches				

Set of Tools: Screwdriver, Phillips, 6-inch, 1 pc/set Functional Specifications: Used to drive phillips type screws			
renemental specifications, used to drive primitips type screws			
Performance Specifications: Should be able to drive phillips type			
screws			
Design Specifications: Screwdriver, Phillips, Point size blade #3 x 6"			
long, chrome vanadium material, 1 pc/set;			
Set of Tools: Soldering Iron, 60 watts, 1 pc/set			
permanent joints			
Performance Specifications: Should be able to heat electric			
contacts for permanent joints •			
Design Specifications: Soldering Iron, 60 watts, small type, woode			
handle, 1 pc. /set;			
Set of Tools: Soldering Lead, Ø1mm, Grade 60/40,			
Wt.: 1 lb/spool, 1 spool/set			
Functional Specifications: Used to provided permanent joint for			
different electrical components			
Performance Specifications: Used to provided permanent joint for			
different electrical components			
Design Specifications: Soldering Lead. Ø 1 mm, Grade 60/40, weight: 1			
lb./spool, 1 spool/set			
Set of Tools: Soldering Paste, 50 grams/can, 1			
can/set			
Functional Specifications: Used to provide better adhesion of solder			
lead to electrical joints			
Performance Specifications: Used to provide better adhesion of solder			
lead to electrical joints			
Design Specifications: Soldering Paste, all purpose flux, non-corrosive,			
50 grams/can, 1 can/set;			
Set of Tools: Tweezers, stainless steel, with curved			
tips, 6.5-inch long, 1 pair/set			
Functional Specifications: Used to hold and pick tiny electronics			
components			
Performance Specifications: Used to hold and pick tiny electronics			
components .			
Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2			
inches long, 1 pair/set;			
		60 calendar days	DepEd Cebu C
		from the date of	Division, N
		receipt of Notice to Proceed/Purchase	Imus, Brgy. D as, Cebu City
Pipette, Beral, 1 ml		Order	as, Cebu City
Functional Specifications: Used to transfer/dispense Equid samples.			
and a second and a second seco			
Performance Specifications: Must be able to transfer/dispense liquid			
sample up to a volume of 1 mL.			
Design Specifications:			
 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			
0.11010000111000			1
4. Total length range: 140 mm - 150 mm			Į

	Gloves, Hand, super nitrile			60 calendar days	DepEd Cebu City
	Functional Specifications: Used to protect hands against mechanical			from the date of	Division, New
	risks, microorganisms, chemical burns and splashes			receipt of Notice to	Imus, Brgy. Day-
	Performance Specifications: Must be able to protect hands against mechanical risks, microrganisms, chemical burns and splashes			Proceed/Purchase Order	as, Cebu City
	Design Specifications:				
	 Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped). 				
	Material: Super nitrile, reusable with the following dimensions:				
	a)Length of gloves : 13 inches (330.2 mm) min				
	b)Thickness: 0.38 -0.52 mm (min)				
	3. Color : Green				
	4. Size: 8				
	Interior finish : Flocklined interior(acid/solvent resistant)				
	6. Exterior finish : Smooth				
	7. Cuff type: Rolled beaded				
	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:				
	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 [EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 				
	12. Individually packed in resealable plastic bag				
21	13. Comes with a brand	65 pairs	65 pairs		

I hereby certify to comply and deliver all the above requirements.

Name of Company/Bidder Signature Over Printed Name of Representative/ Date

Lot 2 - (*Re-Bidding*) Supply and Delivery of Mathematics Learning Tools and Equipment

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

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Meterstick, plastic I. Material: Plastic; 2. Thickness: 6 mm (minimum); 3. Width: 24 mm (minimum); 4. Length: 1.000 mm; 5. The front is scaled in certimeters, numbered in every certimeter 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	123pcs	123pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Protractor (for student) 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) sets of numerals, one reading clockwise and the other reading counterclockwise; 4. Linear graduations are in milimeters, from 0 to 100mm; 5. With a hole at vertex point enough for a fine string to pass through it; 5. Plastic Surface Finish: Smooth, clear, and free from scratches; 7. It must be horizontally level when laid flat on a table - no warping; 3. Comes with a plastic case; and	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
3	Ruler, Plastic, 12 inches or 30 cm 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: *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.	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	Tape Measure, 1.5 meters 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 4. Graduation: in cm on one side and inches on the other side, smallest graduation mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case.	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

5	Calculator, Scientific 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: a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, radian (including conversion of the mentioned Basic Calculations); b) Memory calculation, Logarilthm and Hyperbolic functions; c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and d) Trigonometric functions (sin, cos, tan, sin-1, cos-1, tan-1; 3. Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operates as such correspondingly: 6. Power requirement: two way dual (battery, built-in solar system), the unit consistently operational after replacing the battery for three trials, is solar system powers the unit normally in a well lif room without the pattery; 5. Brand must be established in providing quality products for five (5) years and up.	130pcs	130pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Division, Brgy. Day-	Cebu New .as, Cebu	City Imus, City
6	Stopwatch, digital 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.	78pcs	78pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Division, Brgy. Day-	Cebu New as, Cebu	City Imus, City

I hereby certify to comply and deliver all the above requirements.

Name of Company/Bidder Signature Over Printed Name of Representative/ Date

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

Lot 1 - (Re-Bidding) Supply and Delivery of Science Learning Tools and Equipment (Junior High School and Senior High School)

A. Junior High School

Item No.	Description	Quantity	Statement of Compliance
	Flask, Volumetric, borosilicate 250 ml	5pcs	L
	Functional Specifications: Used to measure/prepare/contai	Spes	
	precise volume of standard solutions at a certain temperature		
	precise dilution of solutions up to 250 mL		
	Performance Specifications: Must be able		
	measure/prepare/contain a precise volume of standard solutions		
	certain temperature and precise dilution of solutions up to 250 mL		
	Design Specifications:		
	1. Type: Class A		
	Shape : A round or pear-shaped bulb, a long thin neck topped		
	snap cap and with flat bottom. 3. Material of body: Borosilicate , clear, transparent and bubble-		
	glass with the following dimensions:		
	a) Height: 225 mm		
	 b) Outside diameter : 78 mm (approx.) c) Size: 250 mi. 		
	d) Tolerance: ± 0.12 mL		
	4. With heavy duty rim		
	5. Comes with snap cap		
	 a) Material of snap cap :High density plastic (polyethylene) 		
	b) With octagonal grip		
	c) Snap-cap : No. 250 d) Color of snap cap: Blue		
	 Color of shap cap: Blue Must meet ASTM E- 694 for volumetric ware, ASTM E-542 		
	calibration of volumetric ware and ASTM E-288 for volumetric flasks		
	7. Calibrated "to contain" (marked "TC" or "IN")		
	 Manufacturer should be accredited by NIST standards or equivalent to the country of origin to certify that their items 		
	calibrated.		
	 Must be free from breakage, cracks, sharp rims and other defection. 		
	 Packaging : Roll up glassware in newspaper and secure with piece of masking tape and place in a bubble pouch and individ 		
	packed in a sturdy box		
1	 Comes with a brand, with five (5) years existence in the glassw industry 		
		5pcs	
	Graduated Cylinder, borosilicate, 10 ml	Spes	
	Functional Specifications: Used to measure and to deliver the vol		
	of liquids		
	Performance Specifications: Must be able to measure and to de		
	the volume of liquids up to 10 mL capacity		
	Design for all address		
	Design Specifications: 1. Type: Class A		
	2.Shape: Narrow cylindrical container with a small turned-out lip		
	2.3hope, Notrow Cylinalical Contrainer with a small turned-out lip		
	3. Materia I: Borosilicate, clear and transparent bubble-free, glass		
	Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions :		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : a) Outside Diameter: 13-14 mm 		
	Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions :		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : a) Outside Diameter: 13-14 mm b) Height: 177-178 mm 		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : Outside Diameter:13-14 mm Height: 177-178 mm Thickness range :1.3-1.4 mm 		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : 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 S. Graduation Range : 1 to 10 mL 		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : 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 6. Graduation interval : 0.1 mL 		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : 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 6. Graduation interval : 0.1 mL 7. Calibrated to deliver (TD) 		
	 Materia I: Borosilicate, clear and transparent bubble-free, glass the following dimensions : 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 interval : 0.1 mL 6. Graduation interval : 0.1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 		
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Graduated Cylinder, borosilicate, 100 ml	5pcs	
Functional Specifications: Used to measure and to deliver the volume	5905	
of liquids		
Performance Specifications: a) Must be able to measure and to deliver the volume of liquids up to		
100 mL capacity b) Used as a container to determine the volume of irregularly shaped		
solids by water displacement.		
Design Specifications:		
Type: Class A Shape: Narrow cylindrical container with a small turned-out lip		
 Material : Bubble-free, borosilicate, clear and transparent glass with the following dimensions: 		
a) Outside Diameter: 29-31 mm		
b) Height: 254-256 mm c) Thickness range :1.3-1.4 mm		
d) Tolerance: ± 0.60 mL		
4. Capacity: 100 mL 5. Graduation range: 5 to 100 mL		
 Graduation Interval : 1 mL Calibrated to deliver (ID) 		
8. All markings are in permanent white enamel		
 With pouring spout With single graduated metric scale with plastic bumper guard 		
11. With glass hexagonal base (non-detachable)		
 Manufacturer of the country of origin should issue certificate of calibration for every item. 		
 Placed in bubble wrap, and packed individually in a compartmentalized box 		
 Must be free from breakage, cracks and sharp rim Comes with a brand, with five (5) years existence in the glass 		
industry.	_	
pH Meter, hand-held	5pcs	
i) Paper Size: A4 size , 80 gsm iii) Font: Times New Roman		
iii) Font size: 12		
iv) Orientation:Portrait		
 w) Margins on all sides with 2 point width border line w) Margins on all sides with 2 point width border line 		
IVI) Line with arrow nead of 1.25 point with wight shall point to the		
vi) Line with arrow head of 1.25 point with width shall point to the specifi part being labeled		
specifi part being labeled 16. Must be free from sharp edges		
specifi part being labeled	5pcs	
specifi part being labeled 16. Must be free from sharp edges	5pcs	
 specifi part being labeled 16. Must be free from sharp edges	5pcs	
specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand	5pcs	
 specifi part being labeled 16. Must be free from sharp edges	5pcs	
 specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory	5pcs	
specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C	5pcs	
 specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer	5pcs	
specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow bulb filled partly with ethanol and partly with nitrogen and ethanol	5pcs	
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specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small hollow bub 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 bubs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings: scale never washes out 10. Provided with non-roll plastic case 11. With continuous alcohol column	5pcs	
specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow 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 10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions:	5pcs	
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specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 10°C Design Specifications: 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 10. Provided with non-roll sleeve 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	5pcs	
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specifi part being labeled 16. Must be free from shorp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 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-ral sleeve 9. With clear and permanent markings: scale never washes out 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 nd other defects	5pcs	
specifi part being labeled 16. Must be free from sharp edges 17. Must have a brand Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 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 10. Provided with non-roll sleeve 11. With continuous alcohol column 12. Dimensions: 13. Range: -20°C to 110°C 14. Divison: 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 ad	5pcs	
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	13packs	
Universal pH Paper, H 0-14, 100 strips/pack		
Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base		
the pH of substances, whether it is an acid, neonal of a search		
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: a) For an acid : pH 0-pH 6;		
b) For a base ; pH 8-pH 14:		
c) For distilled water : pH 7		
Design Specifications:		
1. Type: Test strips		
2. Shape: Rectangle 3. Material: Cellulose/Paper based		
4. Dimension of pH strip :		
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		
7. Packaging: Clear, transparent box 8. Shape of box: Square		
 With complete color chart for comparison with the color change to get the pH reading of the sample being tested 		
get the pH reading of the sample being residu 10, No sharp edges on box		
11. Measures pH 0-pH 14		
12. Comes with a brand		
	5pcs	
	Spes	
Beaker, borosilicate, 1000 ml		
Functional Specifications: Used to serve as container for mixing and for		
heating liquids.		
Performance Specifications: Must be able to serve as container for while and for heating light ide		
mixing and for heating liquids.		
Design Specifications:		
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		
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, Sately packed in a compartmentalized box		
11. There must be no cracks and sharp parts		
11. There must be no cracks and sharp parts		
11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box	5pcs	
11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex)	5pcs	
11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box	5pcs	
11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study.	5pcs	
11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen	5pcs	
11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study.	5pcs	
 11. There must be no cracks and sharp parts 12. Safety packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study.	5pcs	
11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications:	5pcs	
11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: 1. Reusable, borosilicate, circular glass with beaded edge;	5pcs	
 There must be no cracks and sharp parts Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: 	5pcs	
 11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: Reusable, borosilicate, circular glass with beaded edge: Bubble-free, plain surface Outside Diameter of Cover: 100 mm±2 mm; 	5pcs	
 11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: Reusable, borosilicate, circular glass with beaded edge; Bubble-free, plain surface Outside Diameter of Cover: 100 mm±2 mm; Outside Diameter of Disn: 92 mm ± 2 mm; 	5pcs	
 11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: Reusable, borosilicate, circular glass with beaded edge; Bubble-free, plain surface Outside Diameter of Cover: 100 mm±2 mm; Overall height with cover (as assembled); 20 mm±2 mm; 	5pcs	
 11. There must be no cracks and sharp parts 12. Sately packed in a compartmentalized box Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: Reusable, borosilicate, circular glass with beaded edge; Bubble-free, plain surface Outside Diameter of Cover: 100 mm±2 mm; Outside Diameter of Disn: 92 mm ± 2 mm; 	5pcs	
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	Baakar harasilisata 250 ml		
	Beaker, borosilicate, 250 mL		
	Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bursen burner's flame up to more than 1.50°C for normal, standard use service		
	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 1.50°C for normal, standard use service		
	Design Specifications: 1. Type : Griffin, low form		
	Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid pouring		
	 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 "		
	 Capacity: 250 mL ±5% etched onto the glass:" With marking graduation to fill: starts at 25 mL in 25mL increments 		
	 With marking graduation to empty: starts at 0 mL in 25 mL increments Graduation interval; 25 mL 		
	 Graduation range: 25 mL to 200 mL Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box 		
	 Can withstand heating up to 200-230°C for normal, standard use service 	Билор	
9	 Must be free from breakage, cracks, chipped fims and other defects Cornes with a brand of five (5) years existence in the glasswares 	5pcs	
5	industry.	5pcs	
	Beaker, borosilicate, 500 ml	Spes	
	Functional Specifications: a)Used to contain/hold/prepare solids and liquids during chemical reaction and to had them over a Burren burner's flame up to 150°C		
	reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and bits serve as a water bath when heating flammable chemicals		
	b)to serve as a water bath when heating hammable chemicals instead of an open flame to prevent ignition.		
	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.		
	Design Specifications: 1. Type: Berzellius, tall form		
	 Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or 'beak') to aid pouring 		
	 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 ; ± 5% etched/embossed onto the glass		
	 With permanent white enamel graduations of approximate volumes, inscriptions and 		
	6. With large white marking spot		
	7. With easy pour spout 8. Double graduated metric scale		
	 Marked to fill: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 0 mL in 50 mL increments 		
	 Can withstand heating up to 200-230°C for normal, standard use service 		
	 Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 		
	 Must be free from breakage, cracks, chipped rims and other defects 		
10	 Comes with a brand, with five (5) years existence in the glass wares industry 		
	Burner, Alcohol, glass, 150 ml Capacity	5pcs	
	Functional Specifications: Used to produce hot, consistent open frame for slow/gentile heating of glosswares and subfances		
	Performance Specifications:		
	Must be able to produce hot, consistent open flame		
	a)for slow/gentie heating of glasswares and substances b)can withstand prolonged heating without breaking		
	c) visually determine the identity of an unknown metal or metalloid ion based on the characteristic color the chemical/solt 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, 		
	I) for combustion purposes and techniques		
	Design Specifications:		
	 Shape : A globe-shaped body and flat base (bottom) with threaded mouth 		
	Material: Study, heavy walled, clear, transparent, bubble-free glasswith the following dimensions		
	a) Outside Diameter: 80 mm to 85 mm b) Total height: 100 mm to 105 mm		
	3. Capacity : 150 mL		
	 With wick holder permanently attached to a threaded base Material of wick holder and cover/caps : Nickel-plated brass 		
	b) Type of wick holder : Threaded		
1	5. With one (1) pc cotton fiber/strand braided wick perfectly fitted to		
	The wickfube		
	a) Material of wick : Cotton fiber/strand		
	a) Material of wick : Cotton fiber/strand b) Type of wick: Braided c) Length: 7 Inches (178 mm) min		
	a) Material of wick : Cotton fiber/strand b) Type of wick: Braided		
	 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 south/map-on cover/cap 7. With fen (10) pc replacement braided cotton fiber/strand wicks 		
	 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 snutt/snap-on cover/cap 7. With fen (10) pc replacement braided cotton fiber/strand wicks 5. Wrapped in paper , enclosed in bubble wrap and packed in compartmentalized bax 		
11	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 snutf/map-on cover/cap 7. With fen (10) pc replacement braided cotton fiber/strand wicks 8. Wropped in paper , enclosed in bubble wrap and packed in		

	Mortar and Pestle, porcelain, 150 ml	5pcs
	Functional Specifications: Used to pulverize/mash/grind and to mix	Spes
	materials in a mortar using a pestle	
	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.	
	Design Specifications: A. Mortar	
	 Shape of mortar : Bowl shape, with wide mouth , and with deeply molded, smooth rounded bottom 	
	 Material for mortar and pestle: Porcelain with the following dimensions: a) Outfield diameters (100 mm d) mm 	
	a) Outside diameter : 130 mm ± 1 mm b) Depth : 65 mm	
	c) Flat bottom : 87 mm 3. Capacity: 150 mL	
	 With pouring lip With unglazed grinding surface (interior) and uniformly glazed 	
	exterior B. Pestle:	
	 Shape of pestle: Cylindrical awith bulbous bottom with the following dimensions: 	
	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	
	 The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box 	
12	 Must be free from breakage, cracks, chipped parts and other defects Comes with a brand 	
	Rubber Stopper # 6 for Erlenmeyer Flask narrow-	5pcs
	mouth 250 ml, 1 hole	
	Functional Specifications: Used to seal the openings of narrow mouth	
	250 mL Etenmeyer flasks and other laboratory glassware that require a fighter 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.	
	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.	
	Design Specifications:	
	 Shape: Cylindrical with a tapered bottom end Material : Fremium grade SBR black rubber compound with the 	
	following dimensions:	
	a) Height: 25 mm b) Top Ø: 32 mm	
	c)Bottom Ø : 26 mm	
	d) Hole Ø: 5 mm 3. Number of holes :With one (1) hole	
	4. Dimension tolerance on height, top and bottom diameter : ± 0.5	
	mm 5. Hardness : 40 ± 5 Duro	
13	6. Packed in resealable plastic bag	
15	7. Comes with a brand Test tube brush	5pcs
	Functional Specifications: Used to clean test tubes and other small	
	sized glasswares	
	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, carners and bottom.	
	wan a make complete contact with walls, corners and bottom,	
	Design Specifications:	
	 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:	
	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 reseable plastic bag 7. Must be free from sharp metal parts	
	8. Comes with a brand	

		1	
	Test Tube, borosilicate, 16 mm x 150 mm Ion		
	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		
	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		
	Design Specifications:		
	 Shape : Fingerlike length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded "U" shaped bottom 		
	 Material of test tube: Borosilicate , clear, transparent and bubble- 		
	free, glass, with rim with the following dimensions: a) Diameter: 16 mm diameter		
	b) Thickness :1.3 -1.4 mm		
	c) Length: 150 mm long		
	3. Capacity : 20 mL		
	 With heavy uniform wall thickness, excellent heat resistance Test tubes must be reusable (not disposable) 		
	6. With large, white enamel marking spot		
	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		
	 Wrapped individually in tissue paper, enclosed in bubble wrap and packed in comprimentalized box 		
	 Must be free from breakage, cracks, chipped rims and other defects 		
15	12. Comes with a brand with five (5) years of existence in the glass	FO a a a	
15	wares industry	50pcs	
	Vial, screw-neck, 50 ml with screw-t		
	Functional Specifications: Used to hold/contain/store/mix small		
	quantities of samples/ solutions/ substances up to 50 mL		
	Performance Specifications: Must be able to hold/contain/store/mix		
	samples/solutions/substances up to 50 mL		
	Design Specifications:		
	1. Type: Wide mouth		
	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:		
	a) Outside Diameter : 25 mm to 30 mm		
	 b) Length: 100 mm to 108 mm 4. Capacity: 50 mLWith 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		
10	defects 15. Comes with a brand		
16		24pcs	
	Watch Glass, Ø 90 mm	J	
	Functional Specifications: Used to:	1	
	a) cover glasswares like beakers		
	b) evaporates solvents in a sample and	1	
	c) holds/contains liquids and solids prior to heating.		
	Performance Specifications: Must be able to		
	a) cover glasswares like beakers		
	b) evaporate solvents in a sample and		
	c) hold/contain liquids and solids prior to heating.		
	Design Specifications:		
	1. Shape: Circular concave		
	2. Material : Borosilicate, clear and bubble-free glass with the following		
	dimensions:		
	a) Diameter: 90 mm ± 1 mm		
	 b) Thickness range : 1.5 mm to 2 mm 3. Fire-pollshed rims/edge. 		
	 A. Individually wrapped in used newspaper, enclosed in a bubble. 		
	wrap, and packed in a sturdy box		
	Must be free from breakage, cracks, chipped edges and other defects		
17	6. Comes with a brand	5pcs	
±,		i shes	

18	Lens Paper, 50's/pack	5packs
	Filter Paper, crepe, 580mm x 580 mm sheet,	
	Grade 0905	
	Functional Specifications: Used to filter/separate mixtures solids from	
	liquids	
	Performance Specifications: Must be able to Star solids from liquids to	
	Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures	
	(solids from liquids)	
	Design Specifications: 1. Type: Technical use	
	2. Shape of filter paper : Square	
	3. Material: Cellulose with the following dimensions:	
	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	
19	10. Comes with a brand	10sheets
	Nichrome wire. 0.4, 100 ft (1 spool per package = 1.1	
	oz minimum with spool)	
	Functional Specifications: Used as a wire loop and heating element	
	on which a metal soft or solid lonic compound is made to adhere into it and is heated to emit a characteristic color on the Bunsen flame to	
	identify the particular metal present in the compound	
	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	
	herded to emit a characteristic color on the Bunsen frame to identify the particular metal present in the compound in a laboratory activity.	
	the Flame test	
	Design Specifications: 1. Shape: Round wire	
	Material of wire: Nichrome-Alloy of nickel and chromium, Ni80 Cr20	
	with the following dimensions: a) AWG size: 26	
	b) Diameter: 0.4 mm	
	c) Length : 100 ft	
	3. Form: Soft, rust-free wire	
	4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot	
	6. Anneoled soft	
	7. Perfectly tensioned. Zero elongation, scratches, or other flaws.	
	8. Comes in a spool	
	9. Packed in a resealable plastic pouch 10. Comes with a brand	
20	To, Comes with a brand	13spool
	Triangular File, fine, 6-inch Iron, with plastic handle	
	Functional Specifications: Used to cut the glass tubing	7
	Performance Specifications: Must be able to cut the glass tubing	
	Design Specifications:	
	 1. Type of file: Triangular 	
	2. Shape: Triangular	
	3. Material: High carbon steel	
	If Find of Boy Eng. smeanth	
	4. Kind of file: Fine, smooth	
	5. Length of file: 6" (150-152.4 mm) long	
	1	
	5. Length of file: 6" (150-152.4 mm) long	
	5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic	

	Globe, Terrestrial		
	Functional Specifications: Used to represent the earth in three		
	dimensions and the locations and sizes of land masses and water bodies in scale accuracy		
	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		
	Design Specifications:		
	 Primarily used as a reference to geographical & political information Globe diameter: minimum of 12 inches. 		
	 Shows the following: (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		
	Capricom 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		
	(j) The Nine Dashed Line should not appear.		
	The globe which is made of plastic is mounted on a plastic meridian ring (C-shape) with movable magnifier.		
22	 The base stand is made of hard/tough plastic. Must be branded 	Funite	
22	Musical Instrument (Miniature Guitar)	5units	
	Functional Specifications: Used to demonstrate musical application of		
	standing waves		
	Performance Specifications: Should be able to demonstrate musical		
	application of standing waves		
	Design Specifications:		
	1. Mini acoustic type, half-size guitar, any color, surface finish: varnish		
	Made of good quality wood without sign of worp		
	 Minimum dimensions: Overall length: 33 inches, Width:12 inches, Depth: 3 1/2 inches 		
23	4. Standard guitar steel strings (Nos. 1-6), 18 fret minimum	5pcs	
	Set of Tools: Ball Peen Hammer, handle length is		
	11-inch, 350g approx. weight, 1 pc/set		
	Functional Specifications: Used to peen dent surfaces in metals		
	Performance Specifications: Should be able to to peen dent surfaces in metals		
	Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc. /set		
	Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set	13sets	
	Functional Specifications: Used to bend tiny solid wire connectors		
	Performance Specifications: Should be able to bend tiny solid wire connectors		
	Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set		
24			

Set of Tools: Mechanical Wire Cutter and Pliers, 6.5-		
inch, 1 pair/set		
Functional Specifications: Used to bend large wires		
Performance Specifications: Should be able to bend large wires		
Design Specifications: Mechanical-Wire Cutter and Pilers, 6 1/2 inches, chrome vanadium material, 1 pair/set		
Set of Tools: Precision Screwdrivers Set, 6 pcs/set,		
with plastic casing, 1 set/set		
Functional Specifications: Used to drive precision screws		
Performance Specifications: Should be able to to drive precision screws		
Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips, 3 flats)/set, with plastic casing, 1 set		
Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set		
Functional Specifications: Used to drive flat head screws		
Performance Specifications: Should be able to drive flat head screws		
Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches long, chrome variadium material, 1 pc. /set:		
Set of Tools: Soldering Iron, 60 watts, 1 pc/set Functional Specifications: Used to heat electrical contacts for permanent joints		
Performance Specifications: Should be able to heat electrical contacts for permanent joints		
Design Specifications: Soldering Iron, 60 watts, small type, wooden handle, 1 pc. /set;		
Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 lb/spool, 1 spool/set		
Functional Specifications: Used to provided permanent joint for different electrical components		
Performance Specifications: Used to provided permanent joint for different electrical components		
Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1 Ib./spool, 1 spool/set		
Set of Tools: Soldering Paste, 50 grams/can, 1 can/set Functional Specifications: Used to provide better adhesion of solder lead to electrical joints		
Performance Specifications: Used to provide better adhesion of solder lead to electrical joints		
Design Specifications: Soldering Paste, all purpose flux, non-corrosive, 50 grams/can, 1 can/set;		
Set of Tools: Tweezers, stainless steel, with curved		
tips, 6.5-inch long, 1 pair/set		
Functional Specifications: Used to hold and pick tiny electroni components		
Performance Specifications: Used to hold and pick tiny electronic components		
Design Specifications: Tweezers, stainless steel, with curved tips, 6 1, inches long, 1 pair/set;		
And the second se	1	1

	Glass Cover Slips, 100's/box	
	Functional Specifications: Used to secure the wet mount so	
	specimen.	
	Performance Specifications: Must be able to secure the wet mo sample specimen.	
	Design Specifications:	
	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	
	There shall be no chipped edges	
25	7. Safely packed in a plastic box	26 boxes
	Glass Slides, 72's/box	
	Functional Specifications: Used to contain the specimen for	
	examination under the microscope.	
	Performance Specifications: Must be able to accommodate the specimen subject for examination under the microscope.	
	Design Specifications:	
	1. Clear, flat glass; free from moisture, dirt, and film;	
	 No color, no frost and no chipped edges 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	
	 Packed in a box containing 72 slides with thin paper sheets in between them 	
26	Derween men	26 boxes
	Company Magnetia	
	Compass, Magnetic	
	Functional Specifications: Used to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field	
	nord	
	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	
	Design Specifications:	
	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, Northwork Northwork Southwork and Southwork)	
27	Northwest, Northeast, Southwest, and Southeast). 4. Must be branded	13 pcs
	Pipette, Beral, 1 ml	
	Functional Specifications: Used to transfer/dispense liquid samples.	
	Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL.	
	Design Specifications:	
	 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	
28		150 pcs

	Cloves Hand super nitrile			
	Gloves, Hand, super nitrile			
	Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes			
	Performance Specifications: Must be able to protect hands against mechanical risks, microrganisms, chemical burns and splashes			
	Design Specifications:			
	 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:			
	a)Length of gloves : 13 inches (330.2 mm) min			
	b)Thickness: 0.38 -0.52 mm (min)			
	3. Color : Green			
	4. Size: 8			
	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:			
	a) the glove size/s			
	b) the name of manufacturer			
	c) nitrile, flocklined			
	d) individual manufacturing lot	1		
	 e) with pictograms for certification category requirements CE 0334 [EN 400, EN 288, EN 274) designed for protection applied methods. 	1		
	420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms	1		
	12. Individually packed in resealable plastic bag			
29	13. Comes with a brand	50 pcs		
	Flashlight with incandescent bulb			
	Functional Specifications: Used to provide illumination on the surface			
	of a globe model			
	Performance Specifications: Should be able to provide illumination on the surface of a globe model			
	Design Specifications:			
	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			
	6. Body: high impact resin construction			
30	7. Must be branded	26 pcs		
		20 pc3		
	Lamp, Desk, Heavy Base			
	Functional Specifications: Used to provide heat and illumination on specimen under study			
	Performance Specifications: Should be able to provide heat and illumination on specimen under study			
	Design Specifications:			
	1. Heavy base, able to stand by itself	1		
	2. 35 inches length minimum	1		
	3. Easily adjustable to direct the light wherever you need it the most			
	4. With On and Off Switch	1		
	5. Power source: AC 220 volts line: included with 60-100 Watts Yellow	1		
	Light bulb			
	6. Capacity: 100 watts			
	 Preferable ungrounded plug (If the plug is grounded, an adapter 			
	should include in the item.)	1		
	8. With English User's Manual that includes Operation Guide	1		
31	9. Should be branded	13 pcs		
	7. anoug de pignoed	I TO hrs	1	

B. Senior High School

Item No.	Description	Quantity	Statement of Compliance
	Flask, Volumetric, borosilicate 250 ml	10pcs	
	Functional Specifications: Used to measure/prepare/contain precise volume of standard solutions at a certain temperature an precise dilution of solutions up to 250 mL	- 1	
	Performance Specifications: Must be able th measure/prepare/contain a precise volume of standard solutions at certain temperature and precise dilution of solutions up to 250 mL		
	Design Specifications: 1. Type: Class A		
	 Shape : A round or pear-shaped bulb, a long thin neck topped by a snap cap and with flat bottom. Material of body: Borosilicate , clear, transparent and bubble-free glass with the following dimensions: 		
	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		
	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 fo calibration of volumetric ware and ASTM E-288 for volumetric flasks.		
	 Calibrated "to contain" (marked "TC" or "IN") Manufacturer should be accredited by NIST standards or it equivalent to the country of origin to certify that their items are 		
	calibrated. 9. Must be free from breakage, cracks, sharp rims and other detects		
	 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. 		
1	 Comes with a brand, with five (5) years existence in the glassware industry. 		
		10pcs	
	Graduated Cylinder, borosilicate, 10 ml		
	Functional Specifications: Used to measure and to deliver the volume of liquids		
	Performance Specifications: Must be able to measure and to delive the volume of liquids up to 10 mL capacity		
	Design Specifications: 1. Type: Class A		
	 Shape: Narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear and transparent bubble-free, glass with 		
	the following dimensions : 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		
	6. Graduation interval : 0.1 mL		
	7. Calibrated to deliver (TD)		
	8. All markings are in permanent white enamel		
	9. With pouring spout		
	10. Single metric scale, with plastic bumper guard		
	 Glass hexagonal base (non-detachable) Manufacturer of the country of origin should issue certificate of 		
2	calibration for every item.		
2	 Placed in bubble wrap, and packed individually in a compartmentalized box 		
	14. Must be free from breakage, cracks and sharp rim		
	15. Comes with a brand, with five (5) years existence in the glasswares		
	industry		

		10000	
		10pcs	
	Graduated Cylinder, borosilicate, 100 ml		
	Functional Specifications: Used to measure and to deliver the volume of liquids		
	Performance Specifications:		
	 a) Must be able to measure and to deliver the volume of liquids up to 100 mL capacity 		
	b) Used as a container to determine the volume of irregularly shaped		
	solids by water displacement.		
	Design Specifications:		
	Type: Class A Shape: Narrow cylindrical container with a small turned-out lip		
	 Material : Bubble-free, borosilicate, clear and transparent glass with the following dimensions: 		
	a) Outside Diameter: 29-31 mm		
	b) Height: 254-256 mm c) Thickness range :1.3-1.4 mm		
	d) Tolerance: ± 0.60 mL		
	4. Capacity: 100 mL		
	5. Graduation range: 5 to 100 mL 6. Graduation Interval : 1 mL		
	7. Calibrated to deliver (TD)		
	8. All markings are in permanent white enamel		
	 With pouring spout With single graduated metric scale with plastic bumper guard 		
	11. With glass hexagonal base (non-detachable)		
	 Manufacturer of the country of origin should issue certificate of calibration for every item. 		
	 Placed in bubble wrap, and packed individually in a compartmentalized box 		
	14. Must be free from breakage, cracks and sharp rim		
3	 Comes with a brand, with five (5) years existence in the glass industry. 		
		10pcs	
	Thermometer, Laboratory type, Alcohol, -200C to 1100C		
	Thermometer, Laboratory type, Alcohol, -200C to 1100C		
	Functional Specifications: Used to measure the temperature		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small hollow		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors.on one end and a thin capillary opening running through the		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors.on one end and a thin capillary opening running through the		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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-taxic red-filled thermometer		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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-taxic 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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-taxic 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 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 10. Provided with non-roll plastic case 11. With continuous alcohol column		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small hollow bub 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 while back with non-roll sleeve 9. With clear and permanent markings: scale never washes out 10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions:		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 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 10. Provided with non-roll plastic case 11. With continuous alcohol column		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow 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 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)		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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 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		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° fo 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow 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 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)		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape : A small sealed tube made of glass that has a small holiow 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 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. Manufacture of the country of origin should issue certificate of		
	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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-taxic 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 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 nd		
4	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature , -20° to 110°C Design Specifications: 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-taxic 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 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.		

	Universal H Paper, pH 0-14, 100 strips/pack	10packs
	Functional Specifications: Used as an indicator to determine/measure	
	the pH of substances, whether It is an acid, neutral or a base	
	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:	
	a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14.	
	c) For distilled water : pH 7	
	Design Specifications:	
	1, Type: Test strips 2, Shape: Rectangle	
	3. Material: Cellulose/Paper based	
	4. Dimension of pH strip : 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 7. Packaging: Clear, transparent box	
	 Shape of box: Square with complete color chart for comparison with the color change to 	
	get the pH reading of the sample being tested 10. No sharp edges on box	
5	11. Measures pH 0-pH 14 12. Comes with a brand	
-	Filter Paper, crepe, 580mm x 580 mm sheet,	
	Grade 0905	
	Functional Specifications: Used to filter/separate mixtures solids from	
	liquids	
	Performance Specifications: Must be able to filter solids from liquids to	
	demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids)	
	Design Specifications:	
	1. Type: Technical use	
	 Shape of filter paper : Square Material: Cellulose with the following dimensions: 	
	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	
6	9. Packed in brown filter paper tube	
6	10. Comes with a brand	100 sheets
	Triangular File, fine, 6-inch long, with plastic handle	
	Functional Specifications: Used to cut the glass tubing	
	Performance Specifications: Must be able to cut the glass tubing	
	Design Specifications:	
	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	
7		10pcs

Beaker, borosilicate, 250 ml		
Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bursen burner's flame up to more than 150°C for normal, standard use service		
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 Design Specifications: 1. Type : Griffin.low form		
 Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or 'beak') to aid pouring 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 "		
 Capacity: 250 mL ±5% etched onto the glass:" With marking graduation to fill: starts at 25 mL in 25mL increments 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 fims and other defects 16. Comes with a brand of five (5) years existence in the glasswares		
industry	100pcs 10pcs	
Beaker, borosilicate, 500 ml 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.		
Performance Specifications: a) Must be able to contain/hold /prepare solids and liquids during chemical reaction and heals 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.		
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) Weide prove bit more than the following bit more than the following the following the form		
 b) Height range: 136 mm -140 mm c) Thickness: 1.5 mm to 2.0 mm 4. Capacity :500 ml.; ± 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 		
 With easy pour spout Double graduated metric scale Marked to fill: Graduation starts at 50 mL in 50 mL increments Marked to empty: Graduation starts at 0 mL in 50 mL increments Can withstand heating up to 200-230°C for normal, standard use 		
service 12. Wrapped in paper, enclosed in bubble wrap and packed individually 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		

Burner, Alcohol, lass, 150 ml Capacity	10pcs	
Functional Specifications: Used to produce hot, consistent open fiame for slow/gentie heating of glasswares and substances		
Performance Specifications:		
Must be able to produce hot, consistent open flame alfor slow/gentie heating of glasswares and substances		
b)can withstand prolonged heating without breaking c) visually determine the identity of an unknown metal or metalloid ion		
based 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, for combustion purposes and techniques 		
Design Specifications: 1. Shape : A globe-shaped body and flat base (bottom) with		
threaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free		
glasswith the following dimensions 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		
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 to the wicktube		
a) Material of wick : Cotton fiber/strand		
b) Type of wick: Broided c) Length: 7 Inches (178 mm) min		
d) Diameter: 3/16 inches (5-6 mm) 6. With snutt/snap-on cover/cap		
7. With fen (10) pc replacement braided cotton fiber/strand wicks		
 Wrapped in paper , enclosed in bubble wrap and packed in compartmentalized bas. 		
 Must be free from breakage, cracks, chipped rims and other defects 		
 10. Comes with a brand	10.000	
Dish, Evaporating, 75 ml	10pcs	
Functional Specifications: Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leave		
residual chemical solute		
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, driving		
off the water to leave residual chemical solute		
Design Specifications:		
 Shape: Deep form, broad, and wider at the top than bottom and 		
with round bottom with pouring lip/spout		
2. Material : Porcelain, with the following dimensions:		
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		
Uniformly glazed inside (except for rim) and partly uniformly glazed outside except bottom surface.		
 Must be free from breakage, cracks,chipped rims and other defects 		
8.Wrapped in paper, and packed ina sturdy box 9. Comes with a brand		
	1	

	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 ml	10pcs	
	Functional Specifications: Used to :		
	a) contain/hold a small chemical reaction, b) mix solids and liquids,		
	c)heat substances over a Bunsen/alcohol burner's flame up to over 150 °C or		
	d)collect them in a titration/distillation experiment		
	Performance Specifications: Must be able to:		
	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 to 250 mL, or		
	 d) serves as a reaction vessel in a titration experiment, and to collect distillate during distillation 		
	Design Specifications: 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		
	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 : ±6% and other inscriptions enamelled onto the glass		
	3. Capacity: 250 mL capacity		
	4. Graduation range: 50 mL-200 mL 5. Graduation interval: 25 mL		
	6. Graduation starts at: 50 mL in 25 mL increments		
	7. With uniform wall thickness 8. With heavy duty beaded rim		
	9. With permanent durable white enamel graduations with large,		
	white enamel marking spot 10. Can withstand heating up to150°C for normal, standard use service		
	11. Wrapped in paper and individually packed in a		
	compartmentalized box 12. Must be free from breakage, cracks,chipped rims and other		
12	defects 13. Comes with a brand with five (5) years of existence in the glass		
	Mortar and Pestle, porcelain, 150 ml	10pcs	
	 Imaterials in a mortar using a pestle 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 speckle up the rate of reaction because the surface area of the reactant has been increased. Design Specifications: A. Mortar Shape of mortar : Bowl shape, with wide mouth , and with deeply molded, smooth rounded bottom Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter : 130 mm ± 1 mm b) Depth : 65 mm c) Rat bottom : 87 mm Capacity: 150 mL With unglazed grinding surface [interior] and uniformity glazed exterior Pestle: Shape of pestle: Cylindrical awith bulbous bottom with the following dimensions: a) Length range: 133-135 mm and b) Diameter range: 28 - 30 mm dia at its widest point. Material for bottom is handle and rough on opposite end The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box. Must be free from breakage, cracks, chipped parts and other defects Comes with a brand 		
13			

250 ml, 2 hoies Freedman Specifications: Used to sold the openings of narrow month fighter seed or a greater darger or chemical resistance with one 11 hole opening for insertion of a thermometer, glass tubing or stree for use during chemical reaction. As prevent leaks, hoards and contamination. Performance Specifications: What be able to seal the openings of narrow mouth 250 ml. Elemenyse fissk and other laboratory resistance with one (1) hole opening for insertion of a thermometer, glass tubing or street for use during chemical reaction to prevent leaks. hoards and contamination. Design Specifications: 1.Shope: Cylindical with a topseed bottom end 2. Material : Permixing gates SR block rubber compound with the following dimensions: 0 Height: 25 mm cilleton 0: 25 mm cilleton 0: 25 mm cilleton 0: 26 mm cilleton each height, top and bottom diameter : ± 0.5 mm 14 7.Cenes with a brand 14 7.Cenes with a brand 14 7.Cenes with a brand 15 Nardeid : Rodical with melly the able to clean test tubes and other small-kade glasswares with densely filed rodicit is and heed bruth in make complete contact with wells, corners and bottom. 14 7.Cenes with a brand 14 7.Cenes with a brand cher small-kade glasswares with densely filed rodicit is and heed bruth in make complete contact with wells, corners and bottom. 15 7.Markei a brand cher small-kade glasswares with densely filed rodicit is part heed bruth in make complete contact with wells, corners and bottom. 16 Naterid of brandits: Rodial heed wite complete conta				
14 Test tube brush 15 Test tube brush 14 Test tube brush 15 Test tube brush 16 Test tube brush 16 Test tube brush 17 Test tube brush 18 Test tube brush 19		Rubber Stopper #6 for Erlenmeyer Flask narrow-mouth		
Interference relations: Used to used the openings of narrow mouth 200 m. Elternivery tradition of a thermoster glass budge or sitter for use during chemical reaction to prevent leaks, hazards and contamination. Performance Specifications: Must be able to used the openings of glassware that require a tighter set or a greater degree of chemical resistance. with one (1) hole opening for insertion of a thermometer, glass tubing or sitter for use during chemical reaction to prevent leaks. Design Specifications: 1. Shape: Cylindrical with a toppind prevent leaks. 1. Shape: Cylindrical with a toppind bottom end 2. Material and the opening of insertion of a thermometer, glass tubing or sitter for use during chemical reaction to prevent leaks. 1. Shape: Cylindrical with a toppind bottom end 3. Material for therminitation. 0. Height: 25 mm 1. Shadend : Premium grade SBR black nubber compound with the following dimensions: 0. Height: 25 mm 3. Number of holes with one (1) hole 4. Dimension tolerance on height, top and bottom diameter : ± 0.3 mm 30pcs 14 Zender in resolution plastic bagg 30pcs 14 Performance: Specifications: Must be able to clean test tubes and other small blzed glasswares 30pcs 14 Vanchind Expecifications: Must be able to clean test tubes and other small-blzed glasswares with denset filed racial fig and head bruth to make complete contact with walls, corners and bottom. 30pcs 15 Nater ind brainstes: Madium stiff regio		250 ml. 2 holes		
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Design Specifications: 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: 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 reseable plastic bag 7. Must be free from sharp metal parts				
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 Type of wire handle : Common loop twisted wire With circular loop.for hanging Packed in a reseable plastic bag Must be free from sharp metal parts 			1	1
5. With circular loop, for hanging 6. Packed in a reseable plastic bag 7. Must be free from sharp metal parts		c) Over-all length: 220-229 mm		
5. With circular loop, for hanging 6. Packed in a reseable plastic bag 7. Must be free from sharp metal parts				
6. Packed in a reseable plastic bag 7. Must be free from sharp metal parts		3. Material of handle: Galvanized steel wire		
7. Must be free from sharp metal parts		 Material of handle: Galvanized steel wire Type of wire handle : Common loop twisted wire 		
		3. Material of handle: Galvanized steel wire 4. Type of wire handle : Common loop twisted wire 5. With circular loop,for hanging		
		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 reseable plastic bag		
15 8. Comes with a brand 26pcs		 Material of handle: Galvanized steel wire Type of wire handle : Common loop twisted wire With circular loop for hanging Packed in a reseable plastic bag Must be free from sharp metal parts 		

	Functional Specifications: Used to contain/hold a small chemica reaction, to mix small quantities of solids and liquids, and to heat smal quantities of substances		
	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		
	Design Specifications:		
	 Shape : Fingerlike length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded 'U' shaped bottom Material of test tube: Borosilicate, clear, transparent and bubble- free, glass, with rim with the following dimensions: 		
	a) Diameter: 16 mm diameter b) Thickness :1.3 -1.4 mm		
	c) Length: 150 mm long		
	3. Capacity : 20 mL 4. With body uniform wall thickness, excellent heat resistance		
	 With heavy uniform wall thickness, excellent heat resistance Test tubes must be reusable (not disposable) 		
l	6. With large, white enamel marking spot		
	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		
ĺ	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 comprimentalized box 11. Must be free from breakage, cracks, chipped rims and other		
	defects	50pcs	
I	 Comes with a brand with five (5) years of existence in the glass wares industry. 		
	Vial, screw-neck, 50 ml with screw-type plastic cap)		
	Functional Specifications; Used to hold/contain/store/mix small		
	quantities of samples/ solutions/ substances up to 50 mL		
	Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 mL		
	Design Specifications:		
	 Type: Wide mouth Shape : Bottle-like shape with a threaded neck, screw cap 		
I	polypropylene closure and with a flat bottom		
	 Material : Borosilicate, clear, transparent, and bubble-free glass with the following dimensions: 		
	a) Outside Diameter : 25 mm to 30 mm		
	b) Length: 100 mm to 108 mm		
	4. Capacity: 50 mLWith 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		
	 Must be free from breakage, cracks , chipped rims and other defects 		
	15. Comes with a brand		
1			
		65pcs	

	Watch Glass, Ø 90 mm		
	Functional Specifications: Used to:		
	a) cover glasswares like beakers		
	b) evaporates solvents in a sample and		
	c) holds/contains liquids and solids prior to heating.		
	Performance Specifications: Must be able to		
	a) cover glasswares like beakers		
	b) evaporate solvents in a sample and		
	c) hold/contain liquids and solids prior to heating.		
	Design Specifications:		
	1. Shape: Circular concave		
	 Material : Borosilicate, clear and bubble-free glass with the following dimensions; 		
	a) Diameter: 90 mm ± 1 mm		
	b) Thickness range : 1.5 mm to 2 mm		
	 Fire-polished rims/edge. Institute representation of the second sec		
	 Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box 		
	Must be free from breakage, cracks, chipped edges and other defects		
18	6. Comes with a brand	26pcs	
10	Set of Tools: Ball Peen Hammer, handle length is	20003	
	11-inch, 350g approx. weight, 1 pc/set		
	Functional Specifications: Used to peen dent surfaces in metals		
	Performance Specifications: Should be able to to peen dent surfaces		
	in metals		
	Design Specifications: Ball Peen Hammer, handle length 11 inches, 350		
	grams gross weight approx., 1 pc. /set		
	Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set		
	Functional Specifications: Used to bend tiny solid wire connectors		
	Performance Specifications: Should be able to bend tiny solid wire		
	connectors		
	Design Specifications: Long Nose Pliers with side cutter, 6 inches long.		
	chrome vanadium material, 1 pair/set		
	Set of Tools: Mechanical Wire Cutter and Pliers,	-	
	6.5-inch, 1 pair/set		
	Functional Specifications: Used to bend large wires		
	ronchondi specifications: used to bend large wres	12	42
		13 sets	13 sets
	Performance Specifications: Should be able to bend large wires		
	Design Specifications: Mechanical-Wire Cutter and Piters, 6 1/2 inches,		
	chrome vanadium material, 1 pair/set		
	Set of Tools: Precision Screwdrivers Set, 6 pcs/set,	1	
	with plastic casing, 1 set/set		
	Functional Specifications: Used to drive precision screws		
19	Performance Specifications: Should be able to to drive precision		
	screws		
	Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips, 3		
	flats)/set, with plastic casing, 1 set		
	Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set	1	
	Functional Specifications: Used to drive flat head screws		
	and a second sec		
	Performance Specifications: Should be able to chice that been known		
	Performance Specifications: Should be able to drive flat head screws		
	Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches		
	long, chrome variadium material, 1 pc. /set;		
L		1	

		1	
	Set of Tools: Screwdriver, Phillips, 6-inch, 1 pc/set		
	Functional Specifications: Used to drive phillips type screws		
	Performance Specifications: Should be able to drive phillips type		
	screws		
	Design Specifications: Screwdriver, Phillips, Point size blade #3 x 6"		
	long, chrome vanadium material, 1 pc/set;		
	Set of Tools: Soldering Iron, 60 watts, 1 pc/set		
	Functional Specifications: Used to heat electrical contacts for		
	permanent joints		
	Performance Specifications: Should be able to heat electrical		
	contacts for permanent joints •		
	Design Specifications: Soldering Iron, 60 watts, small type, wooden handle, 1 pc. /set;		
		-	
	Set of Tools: Soldering Lead, Ø1mm, Grade 60/40,		
	Wt.: 1 lb/spool, 1 spool/set		
	Functional Specifications: Used to provided permanent joint for		
	different electrical components		
	Performance Specifications lived to provided permanent latet to		
	Performance Specifications: Used to provided permanent joint for different electrical components		
	Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1		
	lo,/spool, 1 spool/set	_	
	Set of Tools: Soldering Paste, 50 grams/can, 1 can/set		
	Functional Specifications: Used to provide better adhesion of solder		
	lead to electrical joints		
	Performance Specifications: Used to provide better adhesion of solder		
	lead to electrical joints		
	Design Specifications: Soldering Paste, all purpose flux, non-corrosive,		
	50 grams/can, 1 can/set;		
	Set of Tools: Tweezers, stainless steel, with curved tips,		
	6.5-inch long, 1 pair/set		
	Functional Specifications: Used to hold and pick tiny electronics		
	components		
	Performance Specifications: Used to hold and pick tiny electronics		
	components .		
	Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2		
	inches long, 1 pair/set;		
	Pipette, Beral, 1 ml		
	Functional Specifications: Used to transfer/dispense liquid samples.		
	Performance Specifications: Must be able to transfer/dispense liquid		
	sample up to a volume of 1 mL.		
	Design Specifications:		
	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		
20		100	100 mag
20		100pcs	100 pcs

Gloves, Hand, super nitrile	
Functional Specifications: Used to protect hands against mechanic risks, microorganisms, chemical burns and splashes	al
Performance Specifications: Must be able to protect hands again mechanical risks, microrganisms, chemical burns and splashes	ist
Design Specifications:	
 Shape: Slightly curved fingers and forward-facing thumb correspon to the natural position of the hand (hand-shaped) , 	id
 Material: Super nitrile, reusable with the following dimensions: 	s
a)Length of gloves : 13 inches (330.2 mm) min	
b)Thickness: 0.38 -0.52 mm (min)	
3. Color : Green	
4. Size: 8	
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	
 Non-slip wear resistant high elasticity , waterproof 	
10. Puncture resistant	
 With detailed imprints on each glove, on the following: a) the glove size/size 	
b) the name of manufacturer	
c) nitrile, flocklined	
d) individual manufacturing lot	
 e) with pictograms for certification category requirements CE 0334 [E 420, EN 388, EN 374) designed for protection against mechanical risk 	
chemical risks, and micro-organisms	
 Individually packed in resealable plastic bag Comes with a brand 	65 pairs
13. Comes with a brand	

MANNER OF PAYMENT

The Supplier shall bill DepEd Cebu City Division upon delivery of all requested goods/items. For this purpose, the Supplier shall issue Delivery Receipt. Non-compliance thereon gives DepEd Cebu City Division the right to disallow payment of the bill; and any falsehood or misrepresentation in the certification shall constitute breach of the Contract, which is a ground for termination thereof.

I hereby commit to comply with all the above requirements.

Name of Company/Bidder

Signature over Printed Name of Bidder

Date

LOT 2 – (Re-Bidding) Supply and Delivery of Mathematics Learning Tools and Equipment

Item	Specification	Quantity	Statement of Compliance
	Meterstick, plastic	123pcs	I I I I
1	 Material: Plastic; Thickness: 6 mm (minimum); Width: 24 mm (minimum); Length: 1,000 mm; The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions; The back is scaled in inches, numbered in every inch with 1/8 inch divisions; The numbers and division lines are in dark color; Must be straight and flat; and free from toxic materials; Edges and Surfaces should be smooth and even; Comes with plastic jacket; Standard abbreviation of the measurement unit/s must be iollowed; and 		
	Protractor (for student)	585pcs	
	 Protractor, student-type, plastic, transparent, semi-circular, 180°; Ø150mm (or 75mm radius), 1mm thick (minimum); Angular graduations are in degrees, from 0° to 180°. With two (2) sets of numerals, one reading clockwise and the other reading counterclockwise; Linear graduations are in milimeters, from 0 to 100mm; 		
	5. With a hole at vertex point enough for a fine string to pass through it;		
	 Plastic Surface Finish: Smooth, clear, and free from scratches; It must be horizontally level when laid flat on a table - no warping; 		
2	3. Comes with a plastic case; and		
3	Ruler, Plastic, 12 inches or 30 cm 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: *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.	585pcs	
	Tape Measure, 1.5 meters	585pcs	
	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		
	4. Graduation: in cm on one side and inches on the other side,		
4	smallest graduation in mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case.		

	Calculator, Scientific	130pcs
	1. Display: LCD, 2 line(s) X 10 characters (minimum), stably shows input- expressions/equation, calculation result, and various indicators;	
5	 Built-in functions not less than 240 inclusion of the following: a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, radian (including convérsion of the mentioned Basic Calculations); b) Memory calculation, Logarithm and Hyperbolic functions; c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and d) Trigonometric functions is: n, cos, tan, sin-1, cos-1, tan-1; Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operates as such correspondingly; 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; Brand must be established in providing quality products for five (5) years and up. 	
	Stopwatch, digital	78pcs
	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	
6	9. Ready to use and comes with extra batteries.	

MANNER OF PAYMENT

The Supplier shall bill DepEd Cebu City Division upon delivery of all requested goods/items. For this purpose the Supplier shall issue Delivery Receipt. Non-compliance thereon gives DepEd Cebu City Division the right to disallow payment of the bill; and any falsehood or misrepresentation in the certification shall constitute breach of the Contract, which is a ground for termination thereof.

I hereby commit to comply with all the above requirements.

Name of Company/Bidder

Signature over Printed Name of Bidder

Date

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) in accordance with Section 8.5.2 of the IRR; (new and revised/updated as per GPBB Resolution No. 15 s. 2021)

Technical Documents

 \square

- (b) 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
 - a.copies of the corresponding notices of award and/or notices to proceed and/or contracts/purchase order; **and**
- (c) 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

a. Must indicate a single contract, similar to the contract to be bid, in an amount equivalent to at least fifty percent (50%) of the ABC to be bid pursuant to Section III, BDS Clause 5.4; or

b. 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 of the ABC for this Project; and the largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

- c. Submit also the following inside this envelope:
 c. 1 copy of the corresponding notice of award or notice to proceed/purchase order/ contract; and
 c. 2 end user's acceptance or official receipt(s) or sales invoice issued for the contract.
- (d) 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
 - (e) *Conformity with the Technical Specifications (Section VII), and *Conformity with the Schedule of Requirements (Section VI)

☐ (f) 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

☐ (g) 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

□ (h) 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

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

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

- (k) [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.
- (1) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

Sample Form or Template of the following documents is provided in Section VIII of this bidding documents, to wit:

- Bid Form;
- Bid Securing Declaration;
- Price Schedule for Goods offered from within the Philippines;
- Price Schedule for Goods offered from Abroad;
- Contract Agreement Form for the Procurement of Goods;
- Omnibus Sworn Statement
- Performance Securing Declaration;
- New and revised/updated Philgeps Certificate of Registration as per GPBB Resolution No. 15 s. 2021

Bid Form for the Procurement of Goods

BID FORM

Date : _____ Project Identification No. :

To: [name and address of Procuring Entity]

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* [description of the Goods] in conformity with the said PBDs for the sum of [total Bid amount in words and figures] or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

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

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

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

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

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

Name:
Legal capacity:
Signature:
Duly authorized to sign the Bid for and behalf of:
Date:

Price Schedule for Goods Offered from Within the Philippines

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

For Goods Offered from Within the Philippines

Name	e of Bidder				Projec	et ID No		Page	_of
1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name: _____

Legal Capacity: _____

Signature:

Duly authorized to sign the Bid for and behalf of:

Price Schedule for Goods Offered from Abroad

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

For Goods Offered from Abroad

Name of Bidder _____ Project ID No. ____ Page ___ of ____

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Name:

Legal Capacity:

Signature:

Duly authorized to sign the Bid for and behalf of:

Bid Securing Declaration Form

REPUBLIC OF THE PHILIPPINES) CITY OF ______) S.S.

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

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

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

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

[Insert Name and Signature]
[Insert Signatory's Legal Capacity]
for:
[Insert Procuring Entity]

[Insert Name and Signature] [Insert Signatory's Legal Capacity] for:

[Insert Name of Supplier]

<u>Acknowledgment</u> [Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)

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

AFFIDAVIT

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

1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

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

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

- 7. [Name of Bidder] complies with existing labor laws and standards; and
- 8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
- 9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
- 10. <u>In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.</u>
- IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of ____, 20___ at ____, Philippines.

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

[Jurat]

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

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

REPUBLIC OF THE PHILIPPINES) CITY OF ______) S.S.

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents] To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

- 1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
- I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years <u>for the second offense</u>, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
- 3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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

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

[Jurat]

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

To: [name and address of PROCURING ENTITY] [name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause **Error! Reference source not found.** of the General Conditions of Contract to provide for advance payment, *[name and address of Supplier]* (hereinafter called the "Supplier") shall deposit with the PROCURING ENTITY a bank guarantee to guarantee its proper and faithful performance under the said Clause of the Contract in an amount of *[amount of guarantee in figures and words]*.

We, the *[bank or financial institution]*, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as surety merely, the payment to the PROCURING ENTITY on its first demand without whatsoever right of objection on our part and without its first claim to the Supplier, in the amount not exceeding *[amount of guarantee in figures and words]*.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between the PROCURING ENTITY and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition, or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[date]*.

Yours truly,

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

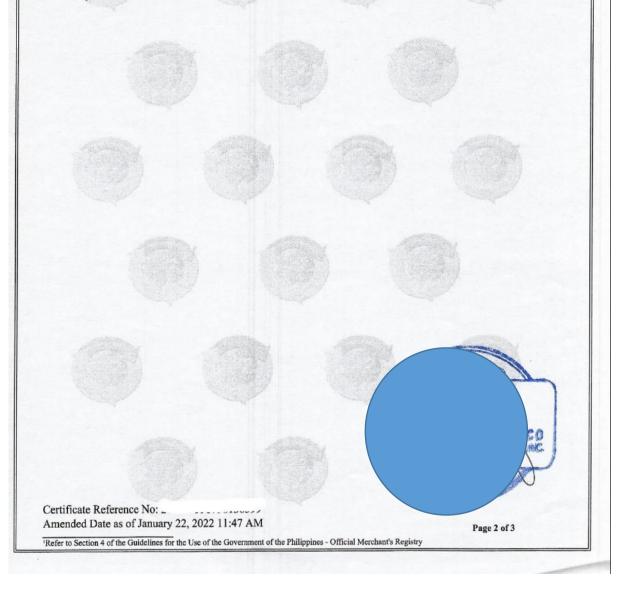
[date]

New and revised/updated Philgeps Certificate of Registration as per GPBB Resolution No. 15 s. 2021

*	111 Color Di Ilineitare
Departme	bublic of the Philippines nt of Budget and Management CUREMENT SERVICE
CERTIFICATE O (Pla	F PHILGEPS REGISTRATION atinum Membership)
THIS IS TO CERTIFY THAT	
Valenzuela Ci	ty, Metro Manila, NCR, Philippines
is registered in the Philippine Governmen pursuant to Section 8.5.2 of the Revised otherwise known as the Government Procure	nt Electronic Procurement System (PhilGEPS) on <u>21-Mar-2002</u> Implementing Rules and Regulations of Republic Act No. 9184, ement Reform Act.
hereof.	nex A, which document is attached hereto and made an integral part
Revised Implementing Rules and Regulations validity of this Certificate shall remain curre Certificate with the current and updated Clas	all Class " A " eligibility documents covered by Section 8.5.2 of the s of Republic Act No. 9184 supporting the veracity, authenticity and ent and updated. The failure by the prospective Bidder to update this ss " A " eligibility documents shall result in the automatic suspension spired Class " A " eligibility documents has been updated.
By submitting this Certificate, the Bidder cer	tifies:
 the authenticity, genuineness, validit submitted; 	ity, and completeness of the copy of the original eligibility documents
2. the veracity of the statements and in	formation contained therein;
3. that the Certificate is not a guaran being determined to be such for that the post-qualification stage; and	ity that the named registrant will be declared eligible without first t particular bidding, nor is it an evidence that the Bidder has passed
submitted, or the contents thereof sh	lsification, or misrepresentation of any of the eligibility documents hall be a ground for disqualification from further participation in the to the imposition of appropriate administrative, civil and criminal i.
This Certificate is valid until 29-Jul-2022	
	Issued this <u>25th</u> day of <u>June 2021.</u> This is a system generated certificate. No signature is required.
Documentary Stamp Tax Paid Php 30.00	E.S.HARDELAK
Certificate Reference No:	Page 1 of 3

REMINDERS¹

- The PhilGEPS office shall not determine the eligibility of merchants. The PhilGEPS office's evaluation of the eligibility requirements shall be for the sole purpose of determining the approval or disapproval of the merchant's application for registration.
- A merchant's registration and membership in the GOP-OMR is neither contract-specific nor understood to be tantamount to a finding of eligibility. Neither shall the merchant's successful registration in the GOP-OMR be relied upon to claim eligibility for the purpose of participation in any public bidding.
- The determination of the eligibility of merchants, whether registered with the GOP-OMR or not, shall remain with the Bids and Awards Committee (BAC). The BAC's determination of validity of the eligibility requirements shall be conclusive to enable the merchant to participate in the public bidding process.



SEC Certificate	Registration Date : 20-Oct-1995 SEC Certificate Number : Augustus-4
Mayors Permit	Expiration Date : 31-Dec-2022 Permit Number : 00013542 Place of Issue : VALENZUELA CITY Issued By / Signatory : Issuance Date : 12-Jan-2022
Tax Clearance	Expiration Date : 21-Jun-2022 TCC Number :
Audited Financial Statement	Date of Filing : 02-Jun-2021 Current Asset Current Liabilities
PCAB License	Expiration Date : - Issued By / Signatory : Issuance Date : - License Number : License First Issue Date : - Principal Classification : Category :

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