(As Harmonized with Development Partners)



Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023



Bureau of Learning Resources - Cebu (BLR-Cebu)

JULY 2023

2023c-BLR4(001&005)-BV-CB-022

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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.
- **BDS** Bid Data Sheet.

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])

IB – Invitation to Bid.

- **ITB** Instruction to Bidders.
- **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



Republic of the Philippines Department of Education Procurement Management Service

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Bids and Awards Committee V

PROJECT NO.: 2023-BLR4(001&005)-BV-CB-022

INVITATION TO BID

FOR THE

Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023

1. The Department of Education (DepEd), through the Government of the Philippines (GOP) under 2022 LTE-SM (Continuing Funds) and 2023 LTE-SM (Current Funds) intends to apply the sum of Philippine Pesos Two Billion, Six Hundred Seventy-Four Million, Three Hundred Sixty-Eight Thousand, Two Hundred Ninety-One and 92/100 (Php2,674,368,291.92), being the total Approved Budget for the Contract (ABC) to payments under the contract for Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023 broken down as follows:

LOT NO.	DESCRIPTION	ITEMS	APPROVED BUDGET FOR THE CONTRACT (ABC) in Php
1 MP-DSC	DEVELOPED STORAGE CABINET (MP-LOT 1)	-1 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	246,682,476.37
2 MI-C	CHEMICALS (MI-LOT 2)	-18 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	36,482,176.73
3 MI-GLT	GLASSWARES AND LAB TOOLS (MI-LOT 3)	-32 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	60,014,011.47
4 MI- SDIMTESLT	SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS – EARTH & SPACE AND LIVING THINGS (MI-LOT 4)	-7 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	59,887,240.26
5 MI-MM	MATHEMATICAL MANIPULATIVES (MI-LOT 5)	-19 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	145,697,032.30

6 MP-DBS	DEVELOPED BASIC SCIKIT (MP-LOT 6)	-55 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	284,509,879.30
7 MP-DS&ME	DEVELOPED SCIENCE AND MATHEMATICS EQUIPMENT (MP-LOT 7)	-15 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	193,348,384.08
8 MP-DSC	DEVELOPED STORAGE CABINET (MP-LOT 8)	-1 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	275,310,260.87
9 MI-C	CHEMICALS (MI-LOT 9)	-18 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	42,313,270.72
10 MI-GLT	GLASSWARES AND LAB TOOLS (MI-LOT 10)	-30 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	61,969,935.83
11 MI-SDIMTM	SCIENCE DEVICES, INSTRUMENTS AND MEASURING TOOLS- MATTER (MI-LOT 11)	-15 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	91,304,938.89
12 MI- SDIMTESLT	SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS – EARTH & SPACE AND LIVING THINGS (MI-LOT 12)	-25 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	315,088,579.57
13 MI-MM	MATHEMATICAL MANIPULATIVES (MI-LOT 13)	-19 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	155,240,109.04
14 MI-MTI	MATHEMATICAL TOOLS AND INSTRUMENT (MI- LOT 14)	-16 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	177,776,266.83
15 MI-M:EHB	MODELS: EARTH AND OTHER HEAVENLY BODIES (MI-LOT 15)	-12 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	160,228,602.33
16 MI-M:HA	MODELS: THE HUMAN ANATOMY (MI-LOT 16)	-14 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	90,711,056.44
17 MI-M:BSS	MODELS: OTHER BIOLOGICAL STRUCTURES AND SPECIES (MI-LOT 17)	-10 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	64,863,982.79
18 MI-M:MG	MODELS: MOLECULAR GEOMETRY (MI-LOT 18)	-6 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	51,006,144.41
19 MI-FMEK	FORCE, MOTION AND ENERGY KITS (MI-LOT 19)	-48 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	161,933,943.69
	TOTAL		2,674,368,291.92

Bids received in excess of the ABC for the project shall be automatically rejected at bid opening.

2. The **DepEd**, through the **Bids and Awards Committee (BAC) V**, now invites bids for the goods and services contemplated in this project. Expected completion of delivery of the goods and services per lot is specified in **Section VI. Schedule of Requirements** and **Section VII. Technical Specifications** of this bidding documents.

Prospective bidder should have completed, within a period of **ten (10) years** immediately preceding the deadline for submission of bids, a Single Largest Completed Contract (SLCC) similar to the contract to be bid and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority's (PSA's) Consumer Price Index (CPI), must be **at least fifty percent (50%)** of the ABC of the lot bid for; OR **at least two (2) similar contracts** and the total of the aggregated contract amount should be equivalent to **at least fifty percent (50%)** of the ABC of the lot bid for; and the largest of these similar contracts must be equivalent to **at least twenty-five percent (25%)** of the ABC of the lot to be bid for.

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "*pass/fail*" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

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.

- Prospective Bidders may obtain further information from DepEd Procurement Management Service - BAC Secretariat Division (ProcMS-BACSD) at Telephone Nos. 8636-6542 or 8633-9343 and inspect the Bidding Documents at the address given below from <u>Monday to Friday from 8:00am to 5:00pm.</u>
- 5. For those who are interested to purchase the Bidding Documents, two (2) options are made available, to wit:
 - a. A complete set of Bidding Documents may be acquired by interested Bidders from the DepEd ProcMS-BACSD, Room M-511, 5th Floor, Mabini Building, DepEd Central Office Complex, Meralco Avenue, Pasig City, upon accomplishing a bidder's information sheet and payment of a non-refundable fee for the Bidding Documents to the DepEd Cashier.

Payment in checks should be made payable to **DECS OSEC Trust**.

b. Interested Bidders may signify their intent to purchase the Bidding Documents through email at <u>depedcentral.bacsecretariat@deped.gov.ph</u> by accomplishing a bidder's information sheet (Annex "B"). Upon receipt of the bidder's information sheet, the BAC Secretariat Division will send through email the details of the DECS OSEC Trust Fund Account for payment. Upon payment, bidders may send through email the proof of payment before the deadline for submission of bids. Upon receipt of proof of payment, the BAC Secretariat will send the electronic copy of the Bidding Documents.

Lot No.	Bidding Documents Fee	Lot	Bidding Documents Fee
Lot No.	(In Php)	No.	(In Php)
1	7,000.00	11	2,000.00
2	1,000.00	12	9,000.00
3	2,000.00	13	4,000.00
4	2,000.00	14	5,000.00
5	4,000.00	15	4,500.00
6	8,000.00	16	2,500.00
7	5,500.00	17	2,000.00
8	7,500.00	18	1,500.00
9	1,000.00	19	4,500.00
10	2,000.00		
	Total		75,000.00

Amount of Bidding Documents shall be **as follows:**

- 6. The DepEd will hold a Pre-Bid Conference for this Project on July 20, 2023, 10:00 A.M. at Bulwagan ng Karunungan, Ground Floor, Rizal Building, DepEd Complex, Meralco Ave., Pasig City, and/or through video conferencing or webcasting via {Teams, Google meet, YouTube live and/or Facebook live}, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat on or before 8:30 A.M. of August 1, 2023 at Bulwagan ng Karunungan, Ground Floor, Rizal Building, DepEd Complex, Meralco Ave., Pasig City.

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 Instruction to Bidders (ITB) Clause 14.
- 9. Bid opening shall be on August 1, 2023, 9:00 A.M. at Bulwagan ng Karunungan, Ground Floor, Rizal Building, DepEd Complex, Meralco Ave., Pasig City and/or through video conferencing or webcasting via {Teams, Google meet, YouTube live and/or Facebook live}, Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Only **two (2) representatives** per bidder will be allowed to enter inside the venue.

For the purpose of constituting a quorum, both the physical and virtual presence of the BAC members shall be considered pursuant to GPPB Resolution No. 09-2020.

10. The **DepEd** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184,

without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

DAISY E. ADRIATICO

Technical Assistant II Procurement Management Service - BAC Secretariat Division Rm. M-511, 5th Floor, Mabini Bldg. DepEd Central Office Complex Meralco Avenue, Pasig City Telephone Nos. 8636-6542 or 8633-9343 Email address: **depedcentral.bacsecretariat@deped.gov.ph**

12. You may visit the following websites:

For downloading of Bidding Documents: https://notices.philgeps.gov.ph/ https://www.deped.gov.ph/

Date of Issuance of Bidding Documents: July 15, 2023

G.H. S. AMBAT Assistant Secretary and Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, **Department of Education (DepEd)**, through its **Bureau of Learning Resources – Cebu (BLR-Cebu)** wishes to receive Bids for the **Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023,** with project identification number 2023-BLR4(001&005)-BV-CB-022.

The Procurement Project (referred to herein as "Project") is composed of nineteen (19) Lots, as described in Section I (Invitation to Bid), Section VI (Schedule of Requirements), and Section VII (Technical Specifications).

2. Funding Information

- 2.1. The GOP, through the source of funding for **General Appropriations** Act (GAA) 2022 and 2023 in the amount of *Philippine Pesos Two* Billion, Six Hundred Seventy-Four Million, Three Hundred Sixty-Eight Thousand, Two Hundred Ninety-One and 92/100 (Php2,674,368,291.92).
- 2.2. The source of funding is the GAA 2022 and 2023 under 2022 LTE-SM (Continuing Funds) and 2023 LTE-SM (Current Funds). Pursuant to NBC No. 590, the funds for this project shall be valid for release, obligation, and disbursement until December 31, 2023, subject to any subsequent issuance to this effect.

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership exceeding those allowed under the rules may participate pursuant to the following:
 - 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 should have a Single Largest Completed Contract (SLCC) **at least one (1)** contract similar to the project to be bid and the value of which, adjusted, if necessary, by the Bidder to current prices using the Philippine Statistics Authority's (PSA's) consumer price index (CPI), must be **at least fifty percent (50%)** of the ABC of the lot bid for; OR **at least two (2) similar contracts**, the aggregate amount of which should be equivalent to **at least fifty percent (50%)** of the ABC of the bid for and the largest of these similar contracts must be equivalent to **at least twenty-five percent (25%) of the ABC of the lot to be bid**.
- 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

Subcontracting is not allowed.

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within a period of **ten (10) years** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents Comprising the Bid: Financial Component

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

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:

- i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
- ii. The cost of all customs duties and sales and other taxes already paid or payable;
- iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
- iv. The price of other (incidental) services, if any, as listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the Bid Data Sheet (BDS), the price of the Goodsshall 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 Philippine Pesos.

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall not be 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 for **120 calendar days** reckoned from the date of the opening of bids. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

Bid.

The Procuring Entity may request additional hard copies of the Bid and/or electronic copies. Any discrepancy between the hard/paper copies and the copies contained and as presented in the USB Flash Drive shall be a ground for disqualification.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time at its physical address indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the specific time, date, and location mentioned in paragraph 9 of the **IB**. The Bidders' representatives who are present must 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, and evaluation will be undertaken on a per lot basis, as the case may be. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot separately.
- 19.3. The descriptions of the lots shall be indicated in Section VII (Technical Specifications), although the ABC of the lot is 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 ABC for the lot/s participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as separate contract per lot.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABC for the lot/s 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 ABC for the lot/s participated in by the prospective Bidder.

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the projects shall be:
	a. Supply and Delivery of Science and/or Mathematics Equipment
	b. completed within ten (10) years immediately prior to the deadline for the submission and receipt of bids.
7.1	Subcontract
	Subcontracting shall NOT be allowed.
9	Request for clarifications must be in writing and submitted at least ten (10) calendar days before the deadline set for the submission and receipt of bids.
	The Procuring Entity's address is:
	ASec. G.H. S. Ambat Bids and Awards Committee (BAC) V c/o Procurement Management Service-BAC Secretariat Division Rm. M-511, 5th Floor, Mabini Bldg. DepEd Central Office Complex Meralco Avenue, Pasig City Telephone Nos. 8636-6542 or 8633-9343 Email address: depedcentral.bacsecretariat@deped.gov.ph
	Consistent with Section 22.5.3 of the revised IRR of RA 9184, posting on the PhilGEPS and the procuring entity's website of any supplemental/ bid bulletin shall be considered sufficient notice to all bidders or parties concerned.
11	Documents comprising the Bid: Financial Component
	The second bid envelope shall contain the financial documents for the Bid, and the Bid Form and Price Schedule shall be per lot as prescribed in the forms provided herein.
12	The price of the Goods shall be quoted DDP (Schools) or the applicable International Commercial Terms (INCOTERMS) for this Project.
	Bid prices should be written in two (2) decimal places only . Bid prices that are written in more than two (2) decimal places shall be rounded off.
	Results of bid evaluation that will exceed the ABC shall be a ground for rejection of the bid(s).
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts indicated in Annex "C" of this bidding document.

-	
14.2	Bid securities, other than a Bid Securing Declaration, shall be turned over
	to the DepEd Cash Division for custody. The Bid Securing Declaration shall be under the custody of the BAC Secretariat.
	be under the custody of the DAC Sceretariat.
	Bid Security shall not contain any deletion, crossing-out, expunction, or
	any form of correction. Otherwise, DepEd may reject such security if any
	such intercalation, superimposition, or alteration affects any material information or feature of the document.
15	Prospective bidders shall enclose their original eligibility and technical
10	documents in a sealed envelope marked as "ORIGINAL – TECHNICAL
	PROPOSAL. " Copies thereof shall be similarly sealed in envelopes marked
	as "COPY NO. 1 – TECHNICAL PROPOSAL" and "COPY NO. 2 –
	TECHNICAL PROPOSAL." In addition, the USB Flash Drive containing the
	soft copy of the original eligibility and technical documents shall be
	submitted and marked as "USB Flash Drive." The said envelopes
	containing the original and the copies, and the flash drive shall then be
	enclosed in one single envelope marked as "TECHNICAL PROPOSAL" . On
	the other hand, the original of their financial documents shall be enclosed
	in another sealed envelope marked as "ORIGINAL - FINANCIAL
	PROPOSAL. " Copies thereof shall be similarly sealed in envelopes marked
	as "COPY NO. 1 - FINANCIAL PROPOSAL" and "COPY NO. 2 -
	FINANCIAL PROPOSAL." The USB Flash Drive containing the soft copy of
	the original financial documents shall be submitted and marked as "USB
	Flash Drive." The said envelopes containing the original and the copies,
	and the flash drive shall then be enclosed in one single envelope marked as
	"FINANCIAL PROPOSAL." Further, the envelopes marked as
	"TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" shall be
	enclosed and/or sealed in an outer envelope marked as "MOTHER
	ENVELOPE." (See Illustration 1).
	Any discrepancy between the hard/paper copies and the copies
	contained and as presented in the USB Flash Drive shall be a ground
	for disqualification.
	Original copies of the Class "A" Eligibility Legal Documents, such as the
	SEC, DTI, or the CDA registration certificate and the Mayor's Permit, may
	not be submitted on the date and the time of the bid submission. However,
	the bidder must be able to present such original copies during post-
	qualification on demand by the BAC or its authorized representative(s) for
	validation.
	To facilitate the receipt and classification of bid envelopes, <i>mother</i>
	envelope shall be RED , the inner envelope containing Technical
	Proposal shall be Blue , the inner envelope containing Financial
	Proposal shall be Green , and the Post-Qualification Documents shall be
	Brown.
	Post-qualification documents may be submitted during the bidding but
	this does not disqualify bidders who will not submit post-qualification
	documents during bid submission.
	Note: Each Bidder shall submit three (3) paper copies
	(i.e, one (1) original and two (2) copies) of its bid and two (2) USB Flash

Drive electronics copies (one Technical Component and one Financial Component). The E-copy of the Price Schedule must be in the form of Excel and PDF.

Unsealed or unmarked bid envelopes, shall be rejected. However, bid envelopes that are not properly sealed and marked as required in the Bidding Documents, shall be accepted, provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The BAC shall assume no responsibility for the misplacement of the contents of the improperly sealed or marked bid, or for its premature opening.

Online submission of bids is not allowed.

19.3 The Project shall be awarded by lot, details as follows:

LOT NO.	DESCRIPTION	ITEMS	APPROVED BUDGET FOR THE CONTRACT (ABC) in Php
1 MP-DSC	DEVELOPED STORAGE CABINET (MP-LOT 1)	-1 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	246,682,476.37
2 MI-C	CHEMICALS (MI-LOT 2)	-18 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	36,482,176.73
3 MI-GLT	GLASSWARES AND LAB TOOLS (MI-LOT 3)	-32 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	60,014,011.47
4 MI- SDIMTESLT	SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS – EARTH & SPACE AND LIVING THINGS (MI-LOT 4)	-7 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	59,887,240.26
5 MI-MM	MATHEMATICAL MANIPULATIVES (MI-LOT 5)	-19 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	145,697,032.30
6 MP-DBS	DEVELOPED BASIC SCIKIT (MP-LOT 6)	-55 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	284,509,879.30
7 MP-DS&ME	DEVELOPED SCIENCE AND MATHEMATICS EQUIPMENT (MP-LOT 7)	-15 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	193,348,384.08
8 MP-DSC	DEVELOPED STORAGE CABINET (MP-LOT 8)	-1 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	275,310,260.87
9 MI-C	CHEMICALS (MI-LOT 9)	-18 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	42,313,270.72
10 MI-GLT	GLASSWARES AND LAB TOOLS (MI-LOT 10)	-30 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	61,969,935.83

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	11 MI-SDIMTM	SCIENCE DEVICES, INSTRUMENTS AND MEASURING TOOLS- MATTER (MI-LOT 11)	-15 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	91,304,938.89
	12 MI- SDIMTESLT	SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS – EARTH & SPACE AND LIVING THINGS (MI-LOT 12)	-25 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	315,088,579.57
	13 MI-MM	MATHEMATICAL MANIPULATIVES (MI-LOT 13)	-19 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	155,240,109.04
	14 MI-MTI	MATHEMATICAL TOOLS AND INSTRUMENT (MI- LOT 14)	-16 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	177,776,266.83
	15 MI-M:EHB	MODELS: EARTH AND OTHER HEAVENLY BODIES (MI-LOT 15)	-12 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	160,228,602.33
	16 MI-M:HA	MODELS: THE HUMAN ANATOMY (MI-LOT 16)	-14 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	90,711,056.44
	17 MI-M:BSS	MODELS: OTHER BIOLOGICAL STRUCTURES AND SPECIES (MI-LOT 17)	-10 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	64,863,982.79
	18 MI-M:MG	MODELS: MOLECULAR GEOMETRY (MI-LOT 18)	-6 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	51,006,144.41
	19 MI-FMEK	FORCE, MOTION AND ENERGY KITS (MI-LOT 19)	-48 items indicated in Annex "A" and Section VI. Schedule of Requirement of this Bidding Document	161,933,943.69
		TOTAL		2,674,368,291.92
		incomplete bids for	submit bids for all ite r the items in the lo	
19.5	-	tion of a prospective e bid, calculated as	e bidder's NFCC mus follows:	t be at least equal to
	value o	f all outstanding or	nus current liabilities, uncompleted portions cluding awarded cor	s of the projects
			er's current assets a ted Financial Stateme	
	For purposes	s of computing the	foreign bidders' NFC	CC, the value of the

	current assets and current liabilities shall be based on their Audited Financial Statements prepared in accordance with international financial reporting standards. (23.5.1.4a)
	If the prospective bidder submits a committed Line of Credit, it must be at least equal to ten percent (10%) of the ABC of the lots bid for: Provided, that if the same is issued by a foreign Universal or Commercial Bank, it shall be confirmed or authenticated by a local Universal or Commercial Bank.
	In any case, the NFCC computation or committed line of credit, must be sufficient for all the lots or contracts bid for. The NFCC computation shall be in accordance with the prescribed form.
	In case of a foreign joint venture, the NFCC shall be computed based on the Audited Financial Statements of the LOCAL LEAD PARTNER , <u>unless</u> <u>it is shown by clear proof that the other partners to the joint venture have</u> <u>infused capital investment to support the operation of the local lead partner</u> <u>to ensure compliance with the obligations under the contracts in this</u> <u>project, in which case the NFCC of the foreign joint venture or the minority</u> <u>partner of the joint venture shall be computed.</u>
	For this purpose, the local lead partner shall be that person/organization/company identified in the Joint Venture Agreement or in the Letters of Intents (for potential JV partners) shown to have the controlling stakes in the JV.
	For easier reference, participating JVs or prospective JV partners must indicate in their JVAs or Letters of Intent the local lead partner appointed by them.
20.1	Within a non-extendible period of five (5) calendar days from receipt by the bidder of the notice from the BAC that it submitted the LCB, the Bidder shall submit the following requirements:
	a. Latest income and business tax returns: Printed copies of the Electronically filed Income Tax and Business Tax Returns with copies of their respective Payment Confirmation Forms for the immediately preceding calendar/tax year from the authorized agent bank;
	Only tax returns filed and taxes paid through the BIR Electronic Filing and Payment System (EFPS) shall be accepted.
	NOTE: The latest income and business tax returns are those within the last six months preceding the date of bid submission.
	b. To ensure the safety, efficacy, or quality of products and if the law requires that a certain product shall pass the requirements of the regulatory body, bidders shall submit certificates, licenses, or other documents issued by such regulatory agency or other accredited

certifying body, such as but not limited to, FDA certificate f and drugs, NTC for electronics equipment and the like;	or food
c. Bidders are also required to include an ISO Certificate; and	
d. Other appropriate licenses and permits required by law and in the BDS .	stated
During post-qualification, upon demand by the BAC representative(s), a bidder with the lowest calculated bid shall be present/submit the following:	
a. Documents to verify or support its Statement of On-going a Statement identifying its Single Largest Completed Contract may consist of the following: appropriate and clear duly contracts, purchase orders, agreements, notices of awa orders, or notices to proceed, with the corresponding duly certificate of completion, delivery receipts, inspection acceptance reports, certificates of final acceptance or receipts.	t which signed ard, job signed n and
b. For validation purposes, original copy Class "A" Eli documents.	igibility
c. Certified true copy documents as issued by certifying/authorized agencies.	the
During post-qualification, compliance of the goods offered wirequirements specified in this bidding document shall be deterined including the following:	
i. As per Section 34.3, b.ii, item a, of the IRR of R.A. verification of availability and commitment, and/or inspection testing for the required capacities and operating condition equipment units to be owned/leased/under purchase by the for use in the contract under bidding, as well as checkin performance of the bidder in its ongoing government and contracts, if any of these ongoing contracts shows:	on and ons, of bidder ng the
 a. Negative slippage of at least fifteen percent (15%) in any one or a negative slippage of at least ten percent (10%) in each of or more contracts; 	
 ii. As per Section 34.3, b.iii, items a to c, of the IRR of R.A. verification and/or inspection and testing of the goods/praftersales and/or maintenance capabilities, in applicable car well as checking the following: 	roduct,
a. Delay in the partial delivery of goods amounting to ten p (10%) of the contract price in its ongoing governme private contracts;	
b. If any of these contracts shows the bidder's failure to or perform any or all of the goods or services with period(s) specified in the contract or within any ext	nin the
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	thereof granted by the Procuring Entity pursuant to a request made by the supplier prior to the delay, and such failure amounts to at least ten percent (10%) of the contract price; or
	c. Unsatisfactory performance of the supplier's obligations as per contract terms and conditions at the time of inspection.
01	The BAC verifies any of these deficiencies to be due to the bidder's fault r negligence, the BAC shall disqualify the bidder from the award, for the rocurement of goods.
D גע in מן	n case of foreign bidders, a Certificate of Authentication from the bepartment of Foreign Affairs shall be required for each document ubmitted, i.e. the Class "A" documents or its equivalent that are written n foreign language, translated to English, and duly authenticated by the ppropriate Philippine foreign service establishment/post or the equivalent ffice having jurisdiction over the foreign bidder's affairs in the Philippines.
ad	o facilitate post-qualification, the bidder at its option may submit in dvance, i.e., on the deadline for submission and receipt of bids, above equirements and other documents required in <i>Section II. ITB 20.1.</i>
TI	he envelope shall be placed in a brown envelope and marked:
IT	TB 20.1 Documents
	Name of Project: Bid Opening Date: Name of Bidder:
fi s	Failure to submit above requirements within the required timeframe or a inding against the veracity of any such documents or other documents submitted for the project shall be a ground for disqualification of the bidder for the award and the enforcement of the bid securing declaration.
s	Submission of Samples:
q L it t	n addition to the documentary requirements to be submitted during post- qualification as provided under ITB Clause 20.1, the bidder(s) with the lowest Calculated Bid(s) for Lots 1 to 19 shall submit <u>ONE</u> sample tem/unit for all the items within the lot(s) bid for, consistent with heir actual offer as indicated in their bid. However, the bidder may provide a sample of better or superior quality, which, if accepted, shall be he reference for award, contract, prospection and eventual delivery.
T d	These samples shall be subjected to evaluation during post-qualification. The Technical Working Group (TWG) shall evaluate the said samples to letermine compliance with the required technical specifications subject to he approval of the Bids and Awards Committee (BAC).
	Failure of the samples to meet DepEd technical specifications shall be a ground for disqualification of the bidder/s.
	Please refer to Annex "D" for the Inspection and Test Protocol of the Mass Production items and Market Items. In case the item will be

manufactured from abroad, the bidder may submit its list of equipment and a video showing the manufacturer's plant and equipment from abroad to prove the bidder's capability to manufacture the item.
 Please refer to Annex "E" for the Quality Assurance Procedure during Contract Implementation.
 Please refer to Annex "F" for the minimum tools and equipment required for the awarding of Mass Production.

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

Additional requirements for the completion of this Contract are 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 2016 revised 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 VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	Special Conditions of Contract
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 under this Contract shall be DDP (Duties Delivered Paid) in accordance with INCOTERMS. Risk and title to the goods shall pass from the Supplier to DepEd upon receipt and final acceptance of the goods at the designated delivery site (Schools).
	The goods to be delivered by the Supplier must be in accordance with the Technical Specifications and other requirements indicated in the bidding documents, and/or as may be reasonably deemed necessary to effect the full and timely delivery of the goods.
	For purposes of this Clause, the representative of the Department of Education (DepEd) at the delivery site shall be the Authorized Representative (School Head) and the designated Inspectorate Team.
	Upon delivery of the goods to the delivery site (Door-to-Door) , the Supplier shall notify DepEd and present the following documents:
	 Original and four copies of the Supplier's invoice showing goods description, quantity, unit price, and total amount; Original and four copies of the Manufacturer's and/or Supplier's Warranty Certificate, where applicable; Original (white copy) and scanned copy stored in CD/DVD/Flash Drive of the pre-numbered Inspection and Acceptance Report (IAR) and Delivery Receipt (DR) detailing number and description of goods received and duly signed and dated by the ARP.
	In case the Supplier encounters conditions impeding timely delivery of the goods, it must promptly notify DepEd in writing within five (5) calendar days from notice of such conditions, and any request for work suspension and/o contract period extension shall be promptly done in writing as soon as circumstances for such requests have become apparent. The Supplier mus provide sufficient proof to support any request for work suspension and/o contract period extension.
	Incidental Services –
	The Supplier is required to provide all of the following services, including additional services, if any, as follows:

a.	Performance or supervision of on-site assembly and/or start-up of the supplied Goods;
b.	Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
c.	Performance, supervision, 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 obligation; and
d.	Provision of training video for various items with training component.
in ca for t at it call up a Sup com	vever, assembly, installation, start-up and/or commissioning of items ases where they are necessary, shall remain to be the responsibility and the account of the supplier notwithstanding inspection and acceptance is premises. In case of failure of Supplier to do this/these, DepEd may upon the Supplier's warranty so that the assembly, installation, start- and/or commissioning shall be undertaken by DepEd. In any case, the plier shall provide written manuals and tutorial videos for installation missioning, start-up, assembly, use and maintenance of the items wered.
Spa	re Parts –
noti	Supplier is required to provide all of the following materials fications, and information pertaining to spare parts manufactured or ributed by the Supplier:
a.	such spare parts as the DepEd may elect to purchase from the Supplier provided that this election shall not relieve the Supplier of any warranty obligations under this Contract;
b.	in the event of termination of production of the spare parts:
	i. advance notification to the DepEd 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 DepEd the blueprints, drawings, and specifications of the spare parts, i requested.
Pack	taging –
dam indi with tem Pack app	Supplier shall provide such packaging as is required to prevent their nage or deterioration during transit to their final destination, as cated in this Contract. The packaging shall be sufficient to withstand nout limitation, rough handling during transit and exposure to extreme peratures, salt, and precipitation during transit, and open storage kaging case size and weights shall take into consideration, where ropriate, the remoteness of the goods' final destination and the absence eavy 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, including additional requirements, if any, specified below, and in any subsequent instructions ordered by DepEd:
	Additional Instructions to Supplier:
	 The following must appear on the exterior of the packages/boxes: DepEd Logo Project Name "Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023" Items inside (name, general description, quantity) Supplier's name and contact details Packaging should be according to the allocation list per school.
	• Refer to DO 21, s.2021 for reference.
	For mass production of cabinets, the Supplier must ensure that the items are properly sealed, complete, properly packaged (where applicable, must be knocked-down (i.e. disassembled) suitable for easier hauling, transport and storage) upon delivery to the designated area to perform the formal acceptance of the items by the recipient school, as the case may be.
	Insurance –
	The goods under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The goods remain at the risk and title of the Supplier until their final acceptance by DepEd.
	Transportation –
	Transport of the goods shall be arranged by the Supplier, and related costs shall be included in the contract price.
	DepEd accepts no liability for the damage of goods during transit. Risk and title to the goods will not be deemed to have passed to DepEd until its receipt and final acceptance at the final destination, through its authorized receiving personnel.
	Intellectual Property Rights –
	The Supplier shall indemnify DepEd against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof.
2.2	Schedule of Payment
	The method and conditions of payment to be made to the Supplier through

ຣາ	he Government disbursement procedure within sixty (60) days upon ubmission of the billing request with complete supporting documents inder this Contract shall be as follows:
A	dvance Payment
ai of ec	In advance payment not to exceed fifteen percent (15%) of the contract mount shall be allowed and paid within 60 calendar days from the signing f the contract. An irrevocable letter of credit or bank guarantee of an quivalent amount must be submitted and shall remain valid until the oods are delivered, and accompanied by a claim for advance payment.
le	for the progress payment, the Supplier shall be paid upon delivery to at east 25% of the recipient schools with complete goods and acceptance of the same by an authorized representative of DepEd.
	he Supplier may submit a request for payment based on progress reports which shall be attached to the progress billing and include the following:
	 quantity of goods delivered based on the schedule of delivery and other relevant terms and conditions of the contract; duly signed Delivery Receipts;
	3. duly signed Inspection and Acceptance Reports, including certification by Supplier, as approved by the duly authorized DepEd representative (School Head), that the goods have been delivered and/or properly installed and commissioned in accordance with the contract;
	Other documents in support of a request for payment may be required by DepEd pursuant to existing disbursement, accounting and auditing rules and procedures.
de R	NOTE: The Supplier must furnish a copy of the above-mentioned ocuments to DepEd Accounting and the End-user [Bureau of Learning Resources - Cebu (BLR-Cebu)] and the Contract Management Division of he Procurement Service, Central Office).
re pi th	ayments shall be subject to the Warranty provision in the form of either etention money in an amount equivalent to three percent (3%) of every rogress payment, or a special bank guarantee in the amount equivalent to hree percent (3%) of the Contract Price as provided under Section 62.1 of LA. 9184 and its Revised IRR.
F	inal payment
in	inal payment shall consist of the full and final payment of the unpaid nspected and accepted goods, subject to the submission of the required ocuments under the Bidding Documents.
01	elease of retention money shall be at the expiration of the warranty period, r the remaining amount in case it has been utilized pursuant to the parranty provision.

3	Performance Security
	The Performance Security shall be posted in favor of DepEd, and shall be forfeited in the event it is established that the Supplier is in default of any of its obligation under the contract. The Supplier shall be responsible for the extension of its performance security and/or renewal of its performance security whenever necessary and/ without need of prior notice or instruction from DepEd, to ensure that it is in force and effect for the whole duration of the contract delivery period and until a Certificate of Final Acceptance is duly issued.
	Performance Security shall not contain any deletion, crossing-out, expunction, or any form of correction. Otherwise, DepEd may reject such security if any such intercalation, superimposition, or alteration affects any material information, or feature of the document.
4	Inspection
	Inspection or pre-delivery inspection (PDI), where applicable for goods to be delivered, shall be conducted by DepEd through the duly designated Inspectorate Team. The inspection or PDI shall be made upon notice to the DepEd of the readiness of the goods for inspection.
	In case the inspection of goods will be conducted by the designated Inspectorate Team of the DepEd Central Office, the Supplier shall coordinate with DepEd, through the Procurement Management Service - Contract Management Division (ProcMS-CMD) , on the conduct of inspection or pre-delivery inspection (PDI). Any request for inspection or PDI shall be done in writing, and contain the following information:
	 a. Project Title and Contract Number; b. Specific goods for inspection; c. Quantity of goods for inspection; d. Venue/Address of inspection site; and e. Proposed schedule of inspection which must be at least ten (10) calendar days from the submission of the letter request.
	The request for inspection or PDI shall be addressed to ProcMS-CMD, and must be submitted through email at procms.cmd@deped.gov.ph.
	Pre-delivery and Pre-implementation Conference shall be conducted prior to the inspection of goods by the designated DepEd Inspectorate Team, as may be necessary or applicable.
	Prior to and for purposes of inspection, the Supplier shall ensure convenient access to the goods for inspection. The Supplier shall assign personnel to undertake the handling, unpacking, assembly, commissioning, disassembly, repacking, resealing, and sorting of the goods prior to, during, and after the inspection.
	DepEd shall have the right to visit and inspect the Supplier's premises covered by the Contract, at any time or stage of contract implementation, to monitor and assess the Supplier's capacity to discharge its contractual obligations.

1	
	Goods with defects or non-compliant with the required technical specifications upon delivery shall be rejected, orally or in writing, by DepEd and replaced by the Supplier in accordance with the warranty provision of this bidding document. The Supplier shall replace all rejected goods within five (5) calendar days from its receipt of the Notice of Rejection from the recipient schools. The replacement goods shall be subject to re-inspection. Goods are considered defective when they are unfit for the use for which it is intended or its fitness for such use is diminished to such an extent that, had DepEd been aware thereof, it would not have acquired it or would have given a lower price for it.
	Defects in the goods can either be patent or latent. A patent defect is one that is apparent to the buyer or normal observation. It is an apparent or obvious defect. On the other hand, a latent defect is one that is not apparent to the buyer by reasonable observation. A latent defect is hidden or one that is not immediately determinable.
5	Warranty
	A one-year comprehensive warranty for the non-expendable goods, and three months for the expendable goods will be applied. The said warranty period shall reckon from the date of issuance of the Certificate of Final Acceptance by the DepEd that the delivered Goods have been duly inspected and accepted (i.e. final acceptance).
	Payments shall be subject to the Warranty provision in the form of either retention money in an amount equivalent to three percent (3%) of every progress payment, or a special bank guarantee in the amount equivalent to three percent (3%) of the Contract Price as provided under Section 62.1 of R.A. 9184 and its Revised IRR.
	Replacement and/or repair of the goods may be requested within 360 calendar days for non-expendable goods, and 90 calendar days for expendable goods, from the date of acceptance of goods by DepEd. Replacement and/or repair of the goods shall be made within 30 calendar days upon claim or request therefor.
	See attached Annex "G" for the Warranty Period per item.
	In case the Supplier opts for retention money, the amount shall only be released after the lapse of the entire warranty period, unless during the remainder of the warranty period, the retention money is substituted with a special bank guarantee as prescribed above.
	The Special Bank Guarantee shall not contain any deletion, crossing-out, expunction, or any form of correction. Otherwise, DepEd may reject such security if any such intercalation, superimposition, or alteration affects any material information, or feature of the document.

Section VI. Schedule of Requirements

A. List/Description of Goods /Services

The delivery schedule expressed below stipulates the date of delivery to the project site.

Lot No.	Item No.	Description	Tot Quantity of Is:	7/ Unit	Delivery Period
I. MASS	PRODU	JCTION ITEMS			
1	BLR-I	DEVELOPED STORAGE CABINETS			within 120 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
	1	BLR-developed Storage Cabinet	10,804	рс	
		ID MATHEMATICS EQUIPMENT			
MARKE	T ITEN				
	CHEN	IICALS			within 120 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
	1	Benedict's Solution, 100ml/bottle	3,997	bot	, , ,
	2	Boric Acid, 100 grams / bottle	3,997	bot]
	3	Bromothymol Blue	3,222	bottle	
	4	Calcium Chloride, 100 grams / bottle	3,997	bot	
	5	Chemicals Storage Box	3,997	рс	
	6	Copper Sulfate, CuSO4, 100 grams / bottle	3,997	bot	
	7	Gentian Violet, 100 ml / bottle	3,222	botte	
•	8	Iodine Solution, 100 ml / bottle	3,350	bottle	
2	9	Magnesium Ribbon, 25 grams, 1 roll	3,997	roll	-
	10	Manganese Dioxide, 50 grams / bottle	3,997	bottle	-
	11	Microscope's Immersion Oil, 100mL/bot	3,222	bottle	
	12	Phenolphthalein, 100 grams/bottle	3,350	bottle	
	13	Potassium Chloride, 100 grams / bottle	3,997	bottle	-
	14	Potassium Iodide, 100 grams / bottle	3,997	bottle	4
	15	Sodium Hydroxide (Lye), 250 grams/bottle	3,997	bottle	
	16	Yeast, active dry, 100 grams / bottle	3,222	bottle	-
	17	Zinc Chloride, 100 grams / bottle	3,997	bottle	4
	18	Zinc metal, pellets/mossy, 100 grams / bottle	3,997	bottle	
	GLAS	SWARES AND LAB TOOLS			within 120 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
•	1	Beaker, borosilicate, 250 mL	37,270	рс	
3	2	Beaker, borosilicate, 50 mL	19,985	pc	
	3	Burette, 10 mL capacity (acid)	640	рс	
	4	Burette, 10 mL capacity (base)	640	рс	-
	5	Burner, Alcohol, glass, 150 ml. Capacity	37,270	pc	

6	Burner, Bunsen	19,985	рс]
7	Cork Stopper # 5 (for Ø 16mm test	19,985	nc	
1	tube)		pc	
8	Crucible with lid/cover	19,985	pc	
9	Dish, Evaporating, 75 mL	37,270	pc	
10	Distillation set-up: Condenser, Liebig- type	256	pc	
11	Distillation set-up: Distilling Flask, borosilicate, 250ml,	256	pc	-
12	Double burette clamp	640	pc	
13	Electrolysis Apparatus, student-type (Brownlee)	19,985	pc	-
14	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 mL	74,540	рс	
15	Funnel, borosilicate, fluted	37,270	рс	
16	Glass Tubing, Ø 6 mm x Ø 4 mm x 1500 mm long	39,970	рс	
17	Manometer, Open U-tube	640	рс	
18	Mortar and Pestle, porcelain, 150 mL.	28,615	pc	1
19	Osmosis Apparatus	640	рс	1
20	Pipette, Beral, 1 mL	286,150	pc	
21	Reagent Bottle, narrow-mouth, amber, borosilicate, 250 mL	3,875	рс	
22	Reagent Bottle, wide-mouth, transparent, borosilicate, 250 mL	19,985	рс	
23	Rubber Stopper # 0 (for Ø 16mm test tube)	19,985	рс	
24	Spoon-spatula, porcelain and glazed	37,270	рс	
25	Stirring Rod, Ø 6 mm x 250 mm long	37,270	pc	1
26	Test tube brush	37,270	pc	
27	Test Tube, borosilicate, Ø 16 mm x 150 mm long	372,700	рс	
28	Tong, Beaker	3,875	рс	1
29	Tong, Crucible	19,985	рс	1
30	Vial, screw-neck, 25 ml. (with screw- type plastic cap)	186,350	рс	
	NCE DEVICES, INSTRUMENTS, AND			within 120 Calendar
	SURING TOOLS - EARTH & SPACE and G THINGS			Days from the date of receipt of the Notice to Proceed (NTP)
1	Balance, Toploading, Electronic	775	unit	,
2	Centrifuge	128	set	1
3	Electrical Conductivity (Conductivity of Solutions) Apparatus	16,750	unit	
4	Laboratory Hot Plate with magnetic stirrer	3,350	unit	
5	Microscope, Digital	775	pc]
6	Soil pH, Moisture, Sunlight Meter	3,875	set	
7	Telescope, Astronomical (Reflecting)	775	kit]
MATH	IEMATICAL MANIPULATIVES			within 120 Calendar Days from the date of receipt of the Notice to

				Proceed (NTP)
1	Algebra Tile Set, plastic	3,222	set	
2	Base Ten Blocks	17,285	set	
3	Bea	1,731	set	
4	Circle Area Demonstrator	3,457	pcs	
5	Compass, Drawing, student type	267,160	pcs	
6	Cuisenaire Rods, set of 5	3,457	set	
7	Elapsed Time (Clock) Set	1,731	pcs	
8	Geoboard, 11 x 11	66,790	pcs	
9	Geoboard, 5 x 5	34,570	pcs	
10	Geostrips	33,395	set	
11	Ghost Grid Whiteboard, Mobile	23,148		
11	Magnetic		pcs	
12	Linking Cubes	17,285	set	
13	Model, Basic 3D Geometrical	8,950	act	
15	Collapsible		set	
14	Model, Basic 3D Geometrical Solids	3,457	set	
15	Pattern Blocks, 250 pcs/set	6,914	set	
16	Pentominoes	17,285	set	
17	Plastic Two-colored Counters, 1-inch	8,655	aat	
11	diameter, 200 pcs/set		set	
18	Probability Kit	6,679	set	
19	Tangrams, set of 30	6,679	set	

Lot No.	Item No.	Description	Total Qua Unit of		Delivery Period
I. MASS	PRODU	CTION ITEMS			
	BLR-I	DEVELOPED BASIC SCIKIT			within 270 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
	1	BLR-developed Basic Scikit: Ø 9.5mm x 250mm long Stand Rod	65,240	рс	
	2	BLR-developed Basic Scikit: Ø 9.5mm x 500mm long Stand Rod	130,480	pc	
	3	BLR-developed Basic Scikit: Ø 12.7mm x 1000mm long Stand Rod	23,795	рс	
6	4	BLR-developed Basic Scikit: Rail	47,590	lh	
	5	BLR-developed Basic Scikit: Ring with stem	32,620	pc	
	6	BLR-developed Basic Scikit: Test Tube Rack	32,620	рс	
	7	BLR-developed Basic Scikit: Wire Gauze	32,620	pc	
	8	BLR-developed SCIKIT BASIC 001: Stand Base	65,240	assy	
	9	BLR-developed SCIKIT BASIC 001: Stand Support	130,480	pcs	

10	BLR-developed SCIKIT BASIC 001: SCIKIT BASIC Storage Case 001 (With Cover and Base Sheathing)	6,524	pc
11	BLR-developed SCIKIT BASIC 002: Multiclamp	163,100	assy
12	BLR-developed SCIKIT BASIC 002: Test Tube Holder	32,620	рс
13	BLR-developed SCIKIT BASIC 002: SCIKIT BASIC Storage Case 002 (With Cover and Base Sheathing)	6,524	рс
14	BLR-developed SCIKIT BASIC 003: Universal Clamp	78,288	assy
15	BLR-developed SCIKIT BASIC 003: Universal Bosshead	65,240	assy
16	BLR-developed SCIKIT BASIC 003: SCIKIT BASIC Storage Case 003 (With Cover and Base Sheathing	6,524	рс
17	BLR-developed Free Fall Apparatus (Mechanics 001): Ball Case (with Cover and foam)	22,855	рс
18	BLR-developed Free Fall Apparatus (Mechanics 001): Digital Timer Assembly (Digital Stopwatch)	22,855	assy
19	BLR-developed Free Fall Apparatus (Mechanics 001): Metertape with hooks and plastic pointer	22,855	assy
20	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 12.7mm Steel Spherical Ball	45,710	рс
21	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 25mm Plastic Spherical Ball with metal screw	45,710	рс
22	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 25mm Steel Spherical Ball	45,710	рс
23	BLR-developed Free Fall Apparatus (Mechanics 001): Pad Switch Assembly	22,855	assy
24	BLR-developed Free Fall Apparatus (Mechanics 001): Solenoid Assembly	22,855	assy
25	BLR-developed Free Fall Apparatus (Mechanics 001): Synchro Box Assembly	22,855	assy
26	BLR-developed Free Fall Apparatus (Mechanics 001): SCIKIT MECHANICS Storage Case 001 (With Cover and Base Sheathing)	22,855	pc
27	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cart-spring loaded	23,795	unit
28	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cart-with counterweight	23,795	unit

29	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cylindrical Mass, 50-gram	118,975	pc
30	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Driving Mass, 3-gram	118,975	pc
31	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Leveling Pad Assembly	23,795	assy
32	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Plastic Hammer	23,795	pc
33	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Modelling Clay, 1 bar/set	23,795	bar
34	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Stopper-Fork Assembly	23,795	assy
35	BLR-developed Dynamics Carts-Rail System (Mechanics 002): String (thin), 1 ball/set	23,795	ball
36	BLR-developed Dynamics Carts-Rail System (Mechanics 002): SCIKIT MECHANICS Storage Case 002 (With Cover and Base Sheathing)	23,795	pc
37	BLR-developed SCIKIT MECHANICS 003: 10-Newton Spring Balance	31,680	assy
38	BLR-developed SCIKIT MECHANICS 003: 250-gram Hooked Mass	63,360	pc
39	BLR-developed SCIKIT MECHANICS 003: 500-gram Hooked Mass	31,680	pc
40	BLR-developed SCIKIT MECHANICS 003: Axle and Lever Beam	31,680	assy
41	BLR-developed SCIKIT MECHANICS 003: Double Pulley	63,360	assy
42	BLR-developed SCIKIT MECHANICS 003: Dry Cell, AA 1.5V	45,710	pc
43	BLR-developed SCIKIT MECHANICS 003: Friction Block and Friction Board	8,935	set
44	BLR-developed SCIKIT MECHANICS 003: Leveling Hose	22,855	lh
45	BLR-developed SCIKIT MECHANICS 003: Motorized Cart	22,855	unit
46	BLR-developed SCIKIT MECHANICS 003: Single Pulley	63,360	assy
47	BLR-developed SCIKIT MECHANICS 003: Spare part for Motorized Cart: Spur Gear B	45,710	рс
48	BLR-developed SCIKIT MECHANICS 003: Spare part for Motorized Cart: Spur Gear C	22,855	pc

	49	BLR-developed SCIKIT MECHANICS 003: Spare part for Motorized Cart: Worm Gear A	45,710	pc	
	50	BLR-developed SCIKIT MECHANICS 003: Spare part for Motorized Cart: Worm with Axle	22,855	assy	
	51	BLR-developed SCIKIT MECHANICS 003: String (thick), 1 ball/set	110	ball	
	52	BLR-developed SCIKIT MECHANICS 003: SCIKIT MECHANICS Storage Case 003 (With Cover and Base Sheathing)	31,680	pc	
	53	BLR-developed: User's Manual (SCIKIT BASIC)	6,524	pc	
	54	BLR-developed: User's Manual (SCIKIT MECHANICS)	6,524	pc	
	55	BLR-developed: Experiment Module (SCIKIT MECHANICS)	6,524	pc	
		leveloped SCIENCE AND IEMATICS EQUIPMENT (Elem, JHS, &			within 270 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
	1	BLR-developed Blackboard Compass	8,038	рс	
	2	BLR-developed Blackboard Protractor	8,038	pc	
	3	BLR-developed Convection Tank (Thermocline Apparatus)	22,745	pc	
	4	BLR-developed Fresh Water Aquarium with Stand	1,765	pc	
	5	BLR-developed Heat Conductivity Apparatus	31,680	рс	
	6	BLR-developed Light Source (Single Slit)	23,795	pc	
7	7	BLR-developed Set of Coils (Transformer)	22,855	set	
	8	BLR-developed Variable Power Supply with 5 pcs. Terminal Board	22,855	set	
	9	BLR-developed: Fraction Set	17,445	set	
	10	BLR-developed: Linear Pair/Angle Demonstrator	31,570	pc	
	11	BLR-developed: Manipulative Electricity Consumption Meter Model, blackboard	1,765	рс	
	12	BLR-developed: Manipulative Water Consumption Meter Model, blackboard	1,765	pc	
	13	BLR-developed: Models of 7-sided to 12-sided Regular Polygons	17,650	set	
	14	BLR-developed: Number Blocks	8,620	set	
	15	BLR-developed: Place Value Chart with decimal pockets	1,765	pc	
8	BLR-I	DEVELOPED STORAGE CABINETS			within 270 Calendar Days from the date of receipt of the Notice to Proceed (NTP)

CHEMICALS receipt of the Notice to Proceed (NTP) 1 Benedict's Solution, 100ml/bottle 4,759 bott 2 Boric Acid, 100 grams / bottle 4,759 bott 3 Bromothymol Blue 4,549 bottle 4 Calcium Chloride, 100 grams / bottle 4,759 bott 5 Chemicals Storage Box 4,759 bott 6 Copper Sulfate, CuSO4, 100 grams / 4,759 bottle 7 Gentian Violet, 100 ml / bottle 4,549 bottle 10 Magneseium Ribbon, 25 grams, 1 roll 4,759 bottle 11 100mL/bot 4,759 bottle 12 Phenolphthalein, 100 grams / bottle 4,759 bottle 15 Sodium Hydroxide (Lye), 250 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 17 Zinc Chloride, 100 grams / bottle 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 16 Reaker, borosilicate, 250 ml.		1	BLR-developed Storage Cabinet	12,819	рс	
CHEMICALS within 210 Calendar Days from the date or crecipt of the Notice to Proceed (NTP) 1 Benedict's Solution, 100ml/bottle 4,759 bott 2 Boric Acid, 100 grams / bottle 4,759 bott 4 Calcium Chloride, 100 grams / bottle 4,579 bott 5 Chemicals Storage Box 4,759 bott 6 bottle 4,579 bott 7 Gentian Violet, 100 ml / bottle 4,579 bott 9 Magnesium Ribbon, 25 grams, 1 roll 4,759 rold 10 Manganese Dioxide, 50 grams / bottle 4,759 rold 14 Potassium Chloride, 100 grams / bottle 4,759 bottle 14 Potassium Chloride, 100 grams / bottle 4,759 bottle 14 Potassium Chloride, 100 grams / bottle 4,759 bottle 15 Sodium Hydroxide (Lye), 250 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 17 Zinc Chloride, 100 grams / bottle 4,759 bottle 18						
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9 Magnesium Ribbon, 25 grams, 1 roll 4,759 roll 10 Manganese Dioxide, 50 grams / bottle 4,759 bottle 11 Microscope's Immersion Oil, 4,549 bottle 12 Phenolphthalein, 100 grams / bottle 4,759 bottle 13 Potassium Chloride, 100 grams / bottle 4,759 bottle 14 Potassium Iodide, 100 grams / bottle 4,759 bottle 15 Sodium Hydroxide (Lye), 250 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 17 Zinc Chloride, 100 grams / bottle 4,759 bottle 18 Zinc metal, pellets/mossy, 100 grams / 4,759 bottle 18 Zinc metal, pellets/mossy, 100 grams / 4,759 bottle 1 Beaker, borosilicate, 250 mL 23,795 pc 2 Beaker, borosilicate, 50 mL 23,795 pc 3 Burner, Alcohol, glass, 150 ml. 41,240 pc 5 Burner, Bunsen 23,795 pc 9 Dish, Evaporating, 75 mL 41,240 pc <td< td=""><th></th><td></td><td></td><td></td><td></td><td></td></td<>						
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11 Microscope's Immersion Oil, 100mL/bot 4,549 bottle 12 Phenolphthalein, 100 grams/bottle 4,571 bottle 13 Potassium Chloride, 100 grams / bottle 4,759 bottle 14 Potassium Iodide, 100 grams / bottle 4,759 bottle 15 grams/bottle 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 17 Zinc Chloride, 100 grams / bottle 4,759 bottle 18 Zinc metal, pellets/mossy, 100 grams / 4,759 bottle 18 Zinc metal, pellets/mossy, 100 grams / 4,759 bottle 1 Beaker, borosilicate, 250 mL 4,759 bottle 1 Beaker, borosilicate, 250 mL 23,795 pc 2 Beaker, borosilicate, 50 mL 23,795 pc 3 Burner, Alcohol, glass, 150 ml. 41,240 pc 5 Capacity Burner, Alcohol, glass, 150 ml. 41,240 pc 6 Burner, Bunsen 23,795 pc pc 9 Dish, Evaporating, 75 mL 41,240 pc pc	9	-		,		
$10 100 \text{ ML/bot} \qquad 4,349 \text{bottle} \\ 12 Phenolphthalein, 100 grams/bottle \\ 13 Potassium Chloride, 100 grams / bottle \\ 14 Potassium Iodide, 100 grams / bottle \\ 14 Potassium Iodide, 100 grams / bottle \\ 15 Sodium Hydroxide (Lye), 250 \\ 16 Yeast, active dry, 100 grams / bottle \\ 17 Zinc Chloride, 100 grams / bottle \\ 18 Zinc metal, pellets/mossy, 100 grams / \\ 2 Beaker, borosilicate, 250 mL \\ 2 Beaker, borosilicate, 50 mL \\ 2 Burner, Alcohol, glass, 150 ml. \\ 4 Burretr, 10 mL capacity (base) \\ 10 10 pc \\ 3 Burner, Alcohol, glass, 150 ml. \\ 4 41,240 pc \\ Capacity \\ 6 Burner, Bunsen \\ 2 23,795 pc \\ 7 Cork Stopper # 5 (for Ø 16mm test \\ 2 23,795 pc \\ 9 Dish, Evaporating, 75 mL \\ 10 Distillation set-up: Condenser, Liebig- \\ 10 Distillation set-up: Distilling Flask, \\ 11 Dorosilicate, 250ml, \\ 12 Double burette clamp \\ 110 pc \\ 13 Electrolysis Apparatus, student-type \\ 2 23,705 pc \\ 3 pc \\ 4 pc \\ 14 pc \\ 15 Distillation set-up: Distilling Flask, \\ 44 pc \\ 16 Distillation set-up: Distilling Flask, \\ 44 pc \\ 17 Distillation set-up: Distilling Flask, \\ 44 pc \\ 18 Dorosilicate, 250ml, \\ 19 Pc \\ 10 Distillation set-up: Distilling Flask, \\ 44 pc \\ 11 Distillation set-up: Distilling Flask, \\ 44 pc \\ 12 Double burette clamp \\ 110 pc \\ 13 Electrolysis Apparatus, student-type \\ 23 705 pc \\ 3 Pc \\ 3 Pc \\ 4 $		10		4,759	bottle	
13 Potassium Chloride, 100 grams / bottle 4,759 bottle 14 Potassium Iodide, 100 grams / bottle 4,759 bottle 15 Sodium Hydroxide (Lye), 250 grams/bottle 4,759 bottle 16 Yeast, active dry, 100 grams / bottle 4,759 bottle 17 Zinc Chloride, 100 grams / bottle 4,759 bottle 18 Zinc metal, pellets/mossy, 100 grams / 4,759 bottle 2 Beaker, borosilicate, 250 mL 41,240 pc 2 Beaker, borosilicate, 50 mL 23,795 pc 3 Burette, 10 mL capacity (acid) 110 pc 5 Burner, Alcohol, glass, 150 ml. 41,240 pc 6 Burner, Bunsen 23,795 pc 7 Cork Stopper # 5 (for Ø 16mm test tube) 23,795 pc 9 Dish, Evaporating, 75 mL 41,240 pc 10 Distillation set-up: Condenser, Liebig- type 44 pc 10 Distillation set-up: Distilling Flask, borosilicate, 250ml, 41 pc 11 Distillation set-up: Distilling Flask, borosilicate, 250ml, 44 pc <th></th> <td>11</td> <td>100mL/bot</td> <td></td> <td></td> <td></td>		11	100mL/bot			
14Potassium Iodide, 100 grams / bottle4,759bottle15Sodium Hydroxide (Lye), 250 grams/bottle4,759bottle16Yeast, active dry, 100 grams / bottle4,759bottle17Zinc Chloride, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle1Beaker, borosilicate, 250 mL41,240pc2Beaker, borosilicate, 50 mL23,795pc3Burrette, 10 mL capacity (acid)110pc4Burrett, 10 mL capacity (base)110pc5Capacity23,795pc6Burner, Bunsen23,795pc7Cork Stopper # 5 (for Ø 16mm test tube)23,795pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44, 240pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burrette clamp110pc13Electrolysis Apparatus, student-type23,795pc				-		
15Sodium Hydroxide (Lye), 250 grams/bottle4,759bottle16Yeast, active dry, 100 grams / bottle4,759bottle17Zinc Chloride, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottle1Beaker, borosilicate, 250 mL41,240pc2Beaker, borosilicate, 50 mL23,795pc3Burette, 10 mL capacity (base)110pc5Burner, Alcohol, glass, 150 ml.41,240pc6Burner, Bunsen23,795pc7Cork Stopper # 5 (for Ø 16mm test tube)23,795pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc			, 0 ,	,		
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17Zinc Chloride, 100 grams / bottle4,759bottle18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottleGLASSWARES AND LAB TOOLS1Beaker, borosilicate, 250 mL41,240pc2Beaker, borosilicate, 50 mL23,795pc3Burrette, 10 mL capacity (acid)110pc4Burrette, 10 mL capacity (base)110pc5Burner, Alcohol, glass, 150 ml.41,240pc6Burner, Bunsen23,795pc7Cork Stopper # 5 (for Ø 16mm test tube)23,795pc9Dish, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc		15	grams/bottle	4,759	bottle	
Image: 18Zinc metal, pellets/mossy, 100 grams / bottle4,759bottleGLASSWARES AND LAB TOOLS1Beaker, borosilicate, 250 mL41,240pc2Beaker, borosilicate, 50 mL23,795pc3Burette, 10 mL capacity (acid)110pc4Burrette, 10 mL capacity (base)110pc5Burner, Alcohol, glass, 150 ml.41,240pc6Burner, Bunsen23,795pc7Cork Stopper # 5 (for Ø 16mm test23,795pc8Crucible with lid/cover23,795pc9Disk, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc		16	Yeast, active dry, 100 grams / bottle	4,549	bottle	
Image: 18 bottlebottleImage: 17 mining of the start of the sta		17		4,759	bottle	
GLASSWARES AND LAB TOOLSDays from the date or receipt of the Notice to Proceed (NTP)1Beaker, borosilicate, 250 mL41,240pc2Beaker, borosilicate, 50 mL23,795pc3Burette, 10 mL capacity (acid)110pc4Burette, 10 mL capacity (base)110pc5Burner, Alcohol, glass, 150 ml.41,240pc6Burner, Bunsen23,795pc7Cork Stopper # 5 (for Ø 16mm test23,795pc8Crucible with lid/cover23,795pc9Dish, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc13Electrolysis Apparatus, student-type23,795pc		18		4,759	bottle	
$10 \begin{array}{ c c c c c c } \hline 2 & \text{Beaker, borosilicate, 50 mL} & 23,795 & \text{pc} \\ \hline 3 & \text{Burette, 10 mL capacity (acid)} & 110 & \text{pc} \\ \hline 4 & \text{Burette, 10 mL capacity (base)} & 110 & \text{pc} \\ \hline 4 & \text{Burner, Alcohol, glass, 150 ml.} & 41,240 & \text{pc} \\ \hline 5 & \text{Burner, Bunsen} & 23,795 & \text{pc} \\ \hline 6 & \text{Burner, Bunsen} & 23,795 & \text{pc} \\ \hline 7 & \text{Cork Stopper # 5 (for η 16mm test} & 23,795 & \text{pc} \\ \hline 8 & \text{Crucible with lid/cover} & 23,795 & \text{pc} \\ \hline 9 & \text{Dish, Evaporating, 75 mL} & 41,240 & \text{pc} \\ \hline 10 & \text{Distillation set-up: Condenser, Liebig-type} & 44 & \text{pc} \\ \hline 11 & \text{Distillation set-up: Distilling Flask, borosilicate, 250ml,} & 110 & \text{pc} \\ \hline 12 & \text{Double burette clamp} & 110 & \text{pc} \\ \hline 13 & \text{Electrolysis Apparatus, student-type} & 23,795 & \text{pc} \\ \hline \end{array}$		GLAS	SWARES AND LAB TOOLS			Days from the date of receipt of the Notice
$10 \begin{array}{c cccc} 3 & \text{Burette, 10 mL capacity (acid)} & 110 & \text{pc} \\ 4 & \text{Burette, 10 mL capacity (base)} & 110 & \text{pc} \\ 5 & \text{Burner, Alcohol, glass, 150 ml.} & 41,240 & \text{pc} \\ \hline 5 & \text{Capacity} & 23,795 & \text{pc} \\ \hline 6 & \text{Burner, Bunsen} & 23,795 & \text{pc} \\ \hline 7 & \text{Cork Stopper # 5 (for Ø 16mm test} & 23,795 & \text{pc} \\ \hline 8 & \text{Crucible with lid/cover} & 23,795 & \text{pc} \\ \hline 9 & \text{Dish, Evaporating, 75 mL} & 41,240 & \text{pc} \\ \hline 10 & \text{Distillation set-up: Condenser, Liebig-} & 44 & \text{pc} \\ \hline 11 & \text{Distillation set-up: Distilling Flask,} & 44 & \text{pc} \\ \hline 12 & \text{Double burette clamp} & 110 & \text{pc} \\ \hline 13 & \text{Electrolysis Apparatus, student-type} & 23,795 & \text{pc} \\ \hline \end{array}$		1	Beaker, borosilicate, 250 mL	41,240	pc	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2	Beaker, borosilicate, 50 mL	23,795	рс	
$10 \begin{bmatrix} 5 & Burner, Alcohol, glass, 150 \text{ ml.} & 41,240 & pc \\ Capacity & 23,795 & pc \\ \hline 6 & Burner, Bunsen & 23,795 & pc \\ \hline 7 & Cork Stopper # 5 (for Ø 16mm test 23,795 & pc \\ \hline 7 & tube) & 23,795 & pc \\ \hline 8 & Crucible with lid/cover & 23,795 & pc \\ \hline 9 & Dish, Evaporating, 75 mL & 41,240 & pc \\ \hline 10 & Distillation set-up: Condenser, Liebig- 44 & pc \\ \hline 11 & Distillation set-up: Distilling Flask, borosilicate, 250ml, \\ \hline 12 & Double burette clamp & 110 & pc \\ \hline 13 & Electrolysis Apparatus, student-type & 23,795 & pc \\ \hline \end{bmatrix}$		3		110	pc	
$10 \begin{array}{c ccccccccccccccccccccccccccccccccccc$		4		110	pc	
107Cork Stopper # 5 (for Ø 16mm test tube)23,795pc8Crucible with lid/cover23,795pc9Dish, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc		5	-	41,240	pc	
7Cork Stopper # 3 (for Ø Foldin test tube)23,795pc8Crucible with lid/cover23,795pc9Dish, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc	10	6		23,795	pc	
9Dish, Evaporating, 75 mL41,240pc10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23,795pc	10	7		23,795	pc	
10Distillation set-up: Condenser, Liebig- type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23 795pc		8	Crucible with lid/cover	23,795	рс	
10type44pc11Distillation set-up: Distilling Flask, borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23 795pc		9		41,240	рс	
11borosilicate, 250ml,44pc12Double burette clamp110pc13Electrolysis Apparatus, student-type23 795pc		10	type	44	pc	
13 Electrolysis Apparatus, student-type 23 795 pc		11		44	pc	
		12	Double burette clamp	110	pc	
(browniee)		13	Electrolysis Apparatus, student-type (Brownlee)	23,795	рс	

14	Flask, Erlenmeyer, borosilicate,	82,480	рс
	narrow-mouth, 250 mL		_
15	Funnel, borosilicate, fluted	41,240	pc
16	Glass Tubing, Ø 6 mm x Ø 4 mm x 1500 mm long	47,590	pc
17	Manometer, Open U-tube	110	70
17	Manometer, Open 0-tube	32,620	pc pc
10	Osmosis Apparatus	110	pc pc
20	Reagent Bottle, narrow-mouth, amber, borosilicate, 250 mL	1,050	pc pc
21	Reagent Bottle, wide-mouth, transparent, borosilicate, 250 mL	23,795	pc
22	Rubber Stopper # 0 (for Ø 16mm test tube)	23,795	pc
23	Spoon-spatula, porcelain and glazed	41,240	pc
24	Stirring Rod, Ø 6 mm x 250 mm long	41,240	pc
25	Test tube brush	41,240	pc
26	Test Tube, borosilicate, Ø 16 mm x 150 mm long	412,400	pc
27	Tong, Crucible	23,795	рс
28	Vial, screw-neck, 25 ml. (with screw- type plastic cap)	206,200	pc
29	Vial, screw-neck, 50 mL. (with screw- type plastic cap)	206,200	pc
30	Watch Glass, Ø 90 mm	41,240	pc
SCIE	NCE DEVICES, INSTRUMENTS, AND		
	SURING TOOLS - MATTER		
1	Balance, Toploading, Electronic	210	pc
2	Balance, Triple Beam, with tare, 2610- gram	22,745	pc
3	Calorimeter	110	pc
4	Centrifuge	22	pc
5	Electrical Conductivity (Conductivity of Solutions) Apparatus	22,855	pc
6	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905	65,240	sheet
6 7	sheet, Grade 0905 Gloves, Hand, super nitrile	65,240 41,240	sheet pair
	sheet, Grade 0905		
7	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10	41,240	pair
7 8	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10 mL Graduated Cylinder, borosilicate, 100	41,240 32,620	pair pc
7 8 9	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10 mL Graduated Cylinder, borosilicate, 100 mL Graduated pipette with rubber pipettor,	41,240 32,620 32,620	pair pc pc
7 8 9 10	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10 mL Graduated Cylinder, borosilicate, 100 mL Graduated pipette with rubber pipettor, borosilicate, 10 mL	41,240 32,620 32,620 110	pair pc pc pc
7 8 9 10 11	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10 mL Graduated Cylinder, borosilicate, 100 mL Graduated pipette with rubber pipettor, borosilicate, 10 mL Hydrometer for heavy liquids	41,240 32,620 32,620 110 110	pair pc pc pc pc
7 8 9 10 11 12	sheet, Grade 0905 Gloves, Hand, super nitrile Graduated Cylinder, borosilicate, 10 mL Graduated Cylinder, borosilicate, 100 mL Graduated pipette with rubber pipettor, borosilicate, 10 mL Hydrometer for heavy liquids Hydrometer for light liquids Laboratory Hot Plate with magnetic	41,240 32,620 32,620 110 110 110	pair pc pc pc pc pc pc

MEAS	NCE DEVICES, INSTRUMENTS, AND SURING TOOLS - EARTH & SPACE and IG THINGS			within 210 Calendar Days from the date or receipt of the Notice to Proceed (NTP)
1	Anemometer with Wind Vane, Cup type	6,978	unit	to rioceed (NTP)
2	Anemometer, Simple	3,489	set	
3	Aneroid Barometer Set (Demonstration Type)	40,190	unit	
4	Aneroid Barometer, wall-mount	8,038	unit	
5	Compass, Magnetic	31,570	pc	
6	Dissecting Set with pan	110	set	
7	First Aid Kit	1,765	kit	
8	Gloves, Surgical	220	pairs	
9	Hand Lens, 10x magnification	1,050	pc	
10	Hand Lens, 5x magnification	17,555	pcs	
11	Hexagonal Weigh Dishes Set, 50mL, 500 pcs/pack	3,489	packs	
12	Lens Paper, 50's/pack	22,745	packs	
13	Microscope, Compound with 4 Objectives	90,980	units	
14	Microscope, Digital	210	unit	
15	Pipette, Beral, 1 mL	326,200	pcs	
16	Prepared Slide Set, Microscope, 25 pieces	4,759	set	
17	Prepared Slide Set, Mitosis and Meiosis	4,549	set	
18	Reaction Plates with 6 Wells	23,795	pc	
19	Sedimentator Tube	1,050	pc	
20	Sling Psychrometer	8,825	unit	
21	Soil pH, Moisture, Sunlight Meter	1,050	unit	
22	Soil/Test Sieve*	1,765	set	
23	Thermometer, Classroom, wall-mount	1,765	pc	
24	Tong, Beaker	1,050	pcs	
25	Wash Bottle, plastic, 250 mL	41,240	pcs	
IATI	HEMATICAL MANIPULATIVES			within 210 Calendar Days from the date o receipt of the Notice to Proceed (NTP)
1	Algebra Tile Set, plastic	4,549	set	
2	Base Ten Blocks	17,445	set	
3	Beads	1,724	set	
4	Circle Area Demonstrator	3,489	pcs	
5	Compass, Drawing, student type	321,520	pcs	
6	Cuisenaire Rods, set of 5	3,489	set	
7	Elapsed Time (Clock) Set	1,724	pcs	
8	Geoboard, 11 x 11	80,380	pcs	
9	Geoboard, 5 x 5	34,890	pcs	
10 11	Geostrips Ghost Grid Whiteboard, Mobile	40,190 26,096	set pcs	
	Magnetic		-	
12	Linking Cubes	17,445	set	
13	Model, Basic 3D Geometrical Collapsible	8,825	set	

	14	Model, Basic 3D Geometrical Solids	3,489	set	
	15	Pattern Blocks, 250 pcs/set	6,978	set	
	16	Pentominoes	17,445	set	
	17	Plastic Two-colored Counters, 1-inch diameter, 200 pcs/set	8,620	set	
	18	Probability Kit	8,038	set	-
	19	Tangrams, set of 30	8,038	set	-
	MATI	HEMATICAL TOOLS & INSTRUMENT			within 210 Calendar Days from the date o receipt of the Notice to Proceed (NTP)
	1	Balance, Double-pan	17,445	pcs	
	2	Blackboard Triangle, 30° x 60° and 45° x 45°	6,314	set	
	3	Calculator, Graphing, non-projectable	23,795	pcs	
	4	Calculator, Scientific	260,960	pcs	
	5	Digital Clock, tabletop	1,724	pcs	
	6	Measuring Kit (Volume)	1,724	set	
14	7	Meterstick, plastic	160,760	pcs	
	8	Protractor, student-type	321,520	pcs	
	9	Ruler, Plastic, 12 inches/30 cm	322,400	pcs	
	10	Scale, Spring, Hanging type	1,724	pcs	
	11	Scale, Weighing, analog, 10 kg. capacity	1,724	pcs	
	12	Scale, Weighing, bathroom-type	1,724	pcs	
	13	Stopwatch, digital	41,240	pcs	
	14	Tape Measure, 1.5 meters	160,760	pcs	
	15	Template, shapes	17,445	pcs	
	16	Thermometer, Clinical, digital	8,825	pc	
	BODI				within 210 Calenda Days from the date of receipt of the Notice to Proceed (NTP)
		Globe, Celestial	32,620	unit	-
	2	Globe, Terrestrial	31,570	unit	-
	3	Landform Demonstration Kit	23,795	kit	-
	4	Model, Earth Internal Structure, 1/4 part detachable	4,759	unit	
15	5	Model, Seismograph	22,745	unit	-
	6	Model, Solar System	210	unit	-
	7	Model, Sun Internal Structure, 1/4 part detachable	4,759	unit	_
	8	Model, Sun-Earth-Moon	32,620	unit	
	9	Model, Tectonics Demonstrator	4,759	kit	_
	10	Model, Volcano, cross section	23,795	unit	_
	11	Rock Samples, 24 pcs/set, (minerals of 3 rock types)	420	set	
	12	Telescope, Astronomical (Reflecting)	210	unit	
16	MOD	ELS: THE HUMAN ANATOMY			within 210 Calenda Days from the date of receipt of the Notice to Proceed (NTP)

	1	Model, Human Brain	1,765	unit	
	2	Model, Human Circulatory System	6,314	unit	
	3	Model, Human Ear	1,724	unit	
	4	Model, Human Endocrine System	4,549	unit	
	5	Model, Human Eye, 6 parts	1,724	unit	
	6	Model, Human Nervous System	6,314	unit	
	7	Model, Human Nose (Nasal-Throat Anatomy)	1,724	unit	
	8	Model, Human Skeleton	1,765	unit	
	9	Model, Human Torso	6,524	unit	
	10	Model, Lung Demonstration	1,765	unit	
	11	Model, Pumping Heart	1,765	unit	
	12	Model, Reproductive System, Female (Pelvic Anatomy)	6,314	unit	
	13	Model, Reproductive System, Male	6,314	unit	
	14	Model, Skin Block	3,489	unit	
					within 210 Calendar
		ELS: OTHER BIOLOGICAL ICTURES AND SPECIES			Days from the date of receipt of the Notice to Proceed (NTP)
	1	Model, Animal Cell	4,571	рс	,
	2	Model, Animal Meiosis	4,571	set	
	3	Model, Animal Mitosis	4,571	set	
17	4	Model, Chloroplast	4,571	unit	
	5	Model, DNA	4,549	unit	
	6	Model, Invertebrates	1,765	set	
	7	Model, Mitochondrion	4,571	unit	
	8	Model, Plant Cell	4,571	unit	
	9	Model, Vertebrates	3,489	set	
	10	Protein Synthesis Demonstration Set	4,549	set	
	MOD	ELS: MOLECULAR GEOMETRY			within 210 Calendar Days from the date of receipt of the Notice to Proceed (NTP)
	1	Model, Atomic Orbital Kit	110	set	
	2	Model, Biochemistry Molecular, (262 atom parts)	9,518	set	
18	3	Model, Crystal Structures Set (Graphite, diamond, sodium chloride, carbon dioxide)	9,518	set	
	4	Model, Molecular, Inorganic/Organic (307-pc)	9,518	pcs	
	5	Model, Sublevel Orbitals of the Atom (Quantum)	23,795	pcs	
	6	Model, VSEPR, 14 shapes (50-pc)	23,795	pcs	
	FORC	CE, MOTION, AND ENERGY KITS			within 210 Calendar Days from the date of receipt of the Notice
19					to Proceed (NTP)
19	1	Advanced Electromagnetism Kit	110	kit	to Proceed (NTP)
19	1 2 3	Advanced Electromagnetism Kit Air Blower Archimedes Principle Set	110 22 110	kit pc	to Proceed (NTP)

4	Basic Electronics Kit	110	kit
5	Basic Lens Set, acrylic	22,855	pc
6	Coefficient of Linear Expansion	110	pc
	Connector, Black (# 18 copper, AWG		•
7	stranded) with alligator clip on one end	120,900	рс
	and banana plug on the other end	,	-
	Connector, Red (# 18 copper, AWG		
8	stranded) with alligator clip on one end	120,900	pc
	and banana plug on the other end		-
	Connector, Yellow (# 18 copper, AWG		
9	stranded) with alligator clip on one end	91,420	pc
	and banana plug on the other end		
10	DC Ammeter	22,855	unit
11	DC String Vibrator, string included	1,050	pc
12	DC Voltmeter	22,855	unit
13	Diffraction slits & Diffraction grating	00.745	act
15	Set	22,745	set
14	Digital Geiger-Muller Counter with	20	
14	radioisotopes samples	20	pc
15	Dry Cell Holder (size D)	161,200	pc
16	Dry Cell, 1.5 volts, size D	161,200	pc
17	Engine Model (Internal Combustion)	110	pc
18	Flask, Florence, glass, 500 mL	110	pc
19	Force Table	110	pc
20	Fuse Holder w/ Fuse	22,855	pc
21	Galvanometer	22,855	unit
22	Helical Spring	22,855	pc
23	Iron Core Rod, non-corrugated	8,825	pc
24	Laser Light	23,795	pc
25	Long Nose Pliers, 6-inch, 1 pair/set	1,765	pc
26	Magnet Wire	6,314	spool
	Manometer, Open U-tube with		
27	Nakamura-type Water Pressure	110	pc
	Apparatus		
28	Miniature Light Bulb	120,900	pc
29	Miniature Light Bulb Holder	120,900	assy
30	Mirror Set, acrylic	22,855	set
31	Motor-Generator Model Experiment Set	22,855	set
32	Multimeter, digital	220	рс
33	Optical Bench Set	22,855	set
34	Pair of Bar Magnets	16,076	pair
35	Prism Set	23,795	set
36	Resistance Board	110	рс
37	Ring and Ball Apparatus	110	unit
38	Ripple Tank Set	110	set
39	Slinky Coil, metal	22,855	unit
40	Sound Resonance Set: Loud Speaker	110	pc
41	Sound Resonance Set: Resonance Tube	110	рс
42	Sound Resonance Set: Tone Generator	110	рс
43	Strobe Light	1,050	pc

44	Switch, Knife type, Single Pole Single Throw	40,300	pc
45	Ticker Timer Set	22,745	set
46	Toy Car, non-friction, non-battery	8,620	pc
47	Tuning Fork Set	110	pc
48	Vacuum Tube and Manual Vacuum Pump	1,050	set

B. Contract Duration

Complete delivery shall be made within the contract duration stipulated above, from the date of receipt of the Notice to Proceed (NTP).

C. Delivery Sites

The goods shall be delivered **Door-to-Door** and inspected at the Recipient Schools as specified in the Allocation List labeled as **Annex "H."**

Statement of Compliance

I/We have read and understood the requirements/scope of service/terms of reference and conditions stipulated herein and shall therefore comply to the conditions set forth in the Contract with respect to this **Section VI. Schedule of Requirements**, if our bid is considered for award.

Name and Signature of Bidder's Authorized Representative

Section VII. Technical Specifications

Technical Specifications

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

A. General Specification

		STATEMENT OF	
Item	Specification	COMPLIANCE (State Comply or	BIDDER'S ACTUAL OFFER
1	All equipment and components must be of the required level of technology, new, compliant with the requested specifications, responding to current quality standards in international	Not Comply)	
	markets, manufactured by reputable and consolidated international brands, reliable and fully adequate for the intended purpose.		
2	All equipment markings, user manuals and electronic copies must be in English.		
3	All equipment shall conform and operate on the standard electric supply in the Philippines (220Vac, 50/60 Hz power, type A & B power sockets)		
4	All equipment must be able to operate in the environmental conditions of the different locations in The Philippines, especially considering humid environments at temperatures ranging from 8°C to 45°C, dusty and moisty		
5	environments and frequently salty air. All connections between components shall be ready to operate, once installation is finalized.		
6	All necessary cables, adaptors and connections must be included and clearly marked, in order to facilitate rapid and accurate assembly.		
7	Bidder should execute an Undertaking that the spare parts are available nationwide for a minimum period of five (5) years and that the original brand of the spare parts are made available to DepEd.		
8	Imported products should pass international quality control product standards and have international quality control product markings such as CE, ISO, ASTM, ASQC, AFCIQ, ASQ, DGQ, EOQC, IQA, and the likes, while locally made products (Philippine-made) should pass the local quality control product standards and bear the PS mark.		
9	The items must be branded and permanently marked on the items, good quality, must be free from toxic materials, and must be properly packed		
10	The equipment and tools can be utilized by male and female learners.		

B. Detailed Technical Specification

I. MASS PRODUCTION ITEMS BLR-DEVELOPED BASIC SCIKIT BLR-developed Basic Scikit: Ø 9.5mm x 250mm long Stand Functional Specifications: used to intercon stand supports; used for suspending pulley Performance Specifications: should effective base-stand support systems; suspend Stand supports in heavier setups 2 BLR-developed Basic Scikit: Ø 9.5mm x 500mm long Stand Functional Specifications: blass esc Scikit: Ø 12.7mm x 1000mm long Stand 3 BLR-developed Basic Scikit: Ø 12.7mm x 1000mm long Stand Functional Specifications: should effective base-stand support systems in heavier setups 4 Design Specifications: please see SCIKIT Base Scikit: Rail Functional Specifications: should be able free fall setup; horizontal support for suspending m Performance Specifications: should be able motorized and dynamics carts 4 Design Specifications: please see SCIKIT Base Scikit: Rail 5 BLR-developed Basic Scikit: Ring with stem Functional Specifications: should be able motorized and dynamics carts 6 BLR-developed Basic Scikit: Test Tube Rack Functional Specifications: used to support activities 6 BLR-developed Basic Scikit: Wire Gauze Functional Specifications: used to diffuse o that involve heating 7 BLR-developed Basic Scikit: Wire Gauze Functional Specifications: used to diffuse o that involve heating 7 BLR-developed Basic Scikit: Wir	STATEMENT OF BIDDER'S COMPLIANCE ACTUAL (State Comply OFFER
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BLR-developed Functional Specifications: used as base supervision of the sector of t	to diffuse open flame
SCIKIT BASIC 001: equipment setups Stand Base Performance Specifications: should be stab	
8 Performance Specifications: should be stab	oport of activity
- 1 F 2000 PO	le in supporting
Design Specifications: please see SCIKIT Ba	
9 BLR-developed SCIKIT BASIC 001: Stand Support Performance Specifications: should provide	stand base assembly

		Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: used as storage for stand bases		
	SCIKIT BASIC 001:			
10	SCIKIT BASIC	Performance Specifications: should be able to store free fall		
	Storage Case 001 (With Cover and Base	apparatus set cmponents		
	Sheathing)	Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: used as for interconnecting rods		
	SCIKIT BASIC 002:	perpendicularly		
	Multiclamp			
11		Performance Specifications: should be sturdy in interconnecting		
		rods		
		Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: is used for holding heated test tubes		
	SCIKIT BASIC 002:			
12	Test Tube Holder	Performance Specifications: should be stable in holding heated		
		test tubes		
		Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: Used as storage of multiclamps and test	ľ	
	SCIKIT BASIC 002:	tube holders		
10	SCIKIT BASIC	Derformance Specificational should be able to store OF sizes		
13	Storage Case 002 (With Cover and Base	Performance Specifications: should be able to store 25 pieces multiclamp and 5 pieces test tube holders		
	Sheathing)	manachamp and o proces toot tube notacio		
		Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: is used for securing heated beakers and		
	SCIKIT BASIC 003:	flasks in place		
14	Universal Clamp	Performance Specifications: should be stable in holding heated		
1.		glasswares		
		Design Specifications: please see SCIKIT Basic		
	BLR-developed SCIKIT BASIC 003:	Functional Specifications: for interconnecting rods to increase		
	Universal Bosshead	overall length as activity requirement; can also be used to perpedicularly interconnect rods for lighter loads		
	omitoreal Booomtaa			
15				
		Performance Specifications: should be sturdy in interconnecting		
		rods		
		Design Specifications: please see SCIKIT Basic		
	BLR-developed	Functional Specifications: used as storage for clamps and		
	SCIKIT BASIC 003:	bossheads		
16	SCIKIT BASIC	Derformance Specificational should be able to store 10 pieces		
10	Storage Case 003 (With Cover and Base	Performance Specifications: should be able to store 12 pieces universal clamp and 10 universal bosshead		
	Sheathing			
		Design Specifications: please see SCIKIT Basic		
	BLR-developed Free	Functional Specifications: used storage case for the metal balls		
	Fall Apparatus (Mechanics 001): Ball	and metal embedded plastic ball		
17	Case (with Cover and	Performance Specifications:		
	foam)			
	,	Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free	Functional Specifications: used to determine time of fall of metal		
	Fall Apparatus (Mechanics 001):	balls or metal embedded plastic ball in free fall activity		
	Digital Timer	Performance Specifications: should be able to determine time of		
18	Assembly (Digital	fall of metal balls or metal embedded plastic ball in free fall		
	Stopwatch)	activity		
		Design Cresifications, along a Provide Path 4		
	BLR-developed Free	Design Specifications: please see Free Fall Apparatus Functional Specifications: used to measure the height of fall of		
	Fall Apparatus	falling objects in free fall ctivity		
	(Mechanics 001):			
19	Metertape with hooks	Performance Specifications: should be able to measure the height		
	and plastic pointer	of fall of falling objects in free fall ctivity		
		Design Specifications: please see Free Fall Apparatus		
		Design openitoriono, picase see rice ran Apparatus		
20	BLR-developed Free	Functional Specifications: used as free fall object in free fall		

	(Mechanics 001): Ø			
	12.7mm Steel Spherical Ball	Performance Specifications:		
	_	Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus (Mechanics 001): Ø	Functional Specifications: used as free fall object in free fall activity		
21	25mm Plastic Spherical Ball with	Performance Specifications:		
	metal screw	Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus (Mechanics 001): Ø	Functional Specifications: used as free fall object in free fall activity		
22	25mm Steel Spherical Ball	Performance Specifications:		
		Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus (Mechanics 001): Pad	Functional Specifications: used as second switch to stop the stopwatch in free fall activity		
23	Switch Assembly	Performance Specifications: should be able to stop the stopwatch in free fall activity		
		Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus (Mechanics 001): Solenoid Assembly	Functional Specifications: used as electromagnet to temporarily suspend the metal balls or the metal imbedded plastic ball in free fall activity		
24	Solenoid Assembly	Performance Specifications: should be able to provide electromagnetism to temporarily suspend the metal balls or the metal imbedded plastic ball in free fall activity		
		Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus	Functional Specifications: used to simultaneously start the stopwatch and cut-off current to the solenoid		
25	(Mechanics 001): Synchro Box Assembly	Performance Specifications: should be able to simultaneously start the stopwatch and cut-off current to the solenoid		
	histeriory	Design Specifications: please see Free Fall Apparatus		
	BLR-developed Free Fall Apparatus	Functional Specifications: used as storage case for free fall apparatus set		
26	(Mechanics 001): SCIKIT MECHANICS Storage Case 001	Performance Specifications:		
	(With Cover and Base Sheathing)	Design Specifications: please see Scikit Mechanics Storage Cases		
	BLR-developed Dynamics Carts-Rail System (Mechanics	Functional Specifications: used as source of action force in Newton's 3rd law of Motion Experiment		
27	002): Cart-spring loaded	Performance Specifications: should be able to provide action force in Newton's 3rd law of Motion Experiment		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed Dynamics Carts-Rail System (Mechanics	Functional Specifications: used as source of reaction force in Newton's 3rd law of Motion Experiment		
28	002): Cart-with counterweight	Performance Specifications: should be able to provide reaction force in Newton's 3rd law of Motion Experiment		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed Dynamics Carts-Rail	Functional Specifications: used for loading into each dynamics cart for newton's 2nd Law of Motion exoeriment		
29	System (Mechanics 002): Cylindrical Mass, 50-gram	Performance Specifications: should be able to load into each dynamics cart for newton's 2nd Law of Motion exoeriment		
		Design Specifications: please see Dynamic Carts-Rail System	ļ	
	BLR-developed Dynamics Carts-Rail System (Mechanics	Functional Specifications: use to provide the 'net' force in newton's 2nd Law of Motion experiment		
30	002): Driving Mass, 3-gram	Performance Specifications: should be able to provide the 'net' force in newton's 2nd Law of Motion experiment		
		Design Specifications: please see Dynamic Carts-Rail System		

	BLR-developed	Functional Specifications: used as bottom support of rails		
31	Dynamics Carts-Rail System (Mechanics	Performance Specifications: should be able to support rails		
01	002): Leveling Pad			
	Assembly BLR-developed	Design Specifications: please see Dynamic Carts-Rail System Functional Specifications: used to strike the push rod to release	<u> </u>	
	Dynamics Carts-Rail	spring in spring-loaded dynamics cart		
32	System (Mechanics 002): Plastic Hammer	Performance Specifications: sholud be able to make push rod release spring in spring-loaded dynamics cart		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed	Functional Specifications: used as storage case for dynamics carts		
	Dynamics Carts-Rail System (Mechanics	and accessories set		
	002): Modelling Clay, 1 bar/set	Performance Specifications:		
33		"Design Specifications: 1. Any color		
		2. Minimum weight: 150 gram bar, individually packed		
		 Non drying, non hardening type Brand must be permanently marked in its packaging." 		
	BLR-developed	Functional Specifications: used as low inertia string guide in		
	Dynamics Ċarts-Rail System (Mechanics	Newton's 2nd Law of Motion Experiment		
34	002): Stopper-Fork	Performance Specifications: should be able to provide low inertia		
	Assembly	string guide in Newton's 2nd Law of Motion Experiment		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed	Functional Specifications: used to transmit net force from weight		
	Dynamics Carts-Rail System (Mechanics	of 3-gram driving masses to pull dynamics carts along rail		
	002): String (thin), 1 ball/set	Performance Specifications: should be able to transmit net force from weight of 3-gram driving masses to pull dynamics carts along		
35	ball/set	rail		
		Design Specifications:		
		Design Specifications: 1. Ball of cotton string, crochet size 8 thread type		
		2. Ball is 50 grams		
	BLR-developed	3. Any color Functional Specifications: used as storage case for Dynamics		
	Dynamics Carts-Rail	Carts-Rail System (Mechanics 002) and accessories		
36	System (Mechanics 002): SCIKIT	Performance Specifications: must store the items for Dynamics		
	MECHANICS Storage	Carts-Rail System Set		
	Case 002 (With Cover and Base Sheathing)	Design Specifications: please see Scikit Mechanics Storage Cases		
	BLR-developed	Functional Specifications: used to measure forces with		
	SCIKIT MECHANICS 003: 10-Newton	magnitudes equivalent up to the weight of 1 kilogram mass		
37	Spring Balance	Performance Specifications: should be able to measure forces with		
		magnitudes equivalent up to the weight of 1 kilogram mass		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed SCIKIT MECHANICS	Functional Specifications: used to provide 5 newton load in simple machines activity		
	003: 250-gram			
38	Hooked Mass	Performance Specifications: should be able to provide 5 newton load in simple machines activity		
	BLR-developed	Design Specifications: please see Dynamic Carts-Rail System Functional Specifications: used to provide 2.5 newton load in	<u> </u>	
	SCIKIT MECHANICS	simple machines activity		
39	003: 500-gram Hooked Mass	Performance Specifications: should be to provide 2.5 newton load in simple machines activity		
		Design Specifications: please see Dynamic Carts-Rail System		
	BLR-developed	Functional Specifications: used to demonstrate the lever principle		
40	SCIKIT MECHANICS 003: Axle and Lever Beam	Performance Specifications: should be to demonstrate the lever principle		
	1	Design Specifications: please see Dynamic Carts-Rail System	1 1	

	BLR-developed SCIKIT MECHANICS 003: Double Pulley	Functional Specifications: used to demonstrate efficiency of pulley combinations	
41	bool Double Fulley	Performance Specifications: should be able to demonstrate efficiency of pulley combinations	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS 003: Dry Cell, AA	Functional Specifications: used to provide DC power to motorized cart	
42	1.5V	Performance Specifications: should be able to provide DC power to motorized cart	
		Design Specifications: 1. Dry cell, 1.5 volts, size AA	
	BLR-developed SCIKIT MECHANICS	Functional Specifications: Used to validate factors affecting friction force	
43	003: Friction Block and Friction Board	Performance Specifications: Must be able to validate factors affecting friction force	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS 003: Leveling Hose	Functional Specifications: used to check horizontal levelness of surfaces where the rail will be placed	
44	003. Levening Hose	Performance Specifications: should be able to check horizontal levelness of surfaces where the rail will be placed	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS	Functional Specifications: used as constant speed object in uniform speed activity	
45	003: Motorized Cart	Performance Specifications: should be able to move with constant speed object in uniform speed activity	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed	Functional Specifications: used to demonstrate that a pulley can	
46	SCIKIT MECHANICS 003: Single Pulley	function to change direction of force Performance Specifications: should be able to demonstrate that a	
40		pulley can function to change direction of force	
	BLR-developed	Design Specifications: please see Dynamic Carts-Rail System Functional Specifications: used to transmit torque to worm gear A	
	SCIKIT MECHANICS 003: Spare part for	Performance Specifications: should be able to walk downstairs at	
47	Motorized Cart: Spur Gear B	least 2 levels	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS 003: Spare part for	Functional Specifications: used to change torque direction of motor torque	
48	Motorized Cart: Spur Gear C	Performance Specifications: should be able to change torque direction of motor torque	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS 003: Spare part for	Functional Specifications: used to transmit torque to worm with axle	
49	Motorized Cart: Worm Gear A	Performance Specifications: should be able to transmit torque to worm with axle	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed SCIKIT MECHANICS 003: Spare part for	Functional Specifications: used to transmit power to motorized cart wheels	
50	Motorized Cart: Worm with Axle	Performance Specifications: should be able to transmit torque to motorized cart wheels	
		Design Specifications: please see Dynamic Carts-Rail System	
	BLR-developed	Functional Specifications: used to interconnect pulley	
51	SCIKIT MECHANICS 003: String (thick), 1 ball/set	combinations	

		1		1	
			Performance Specifications: should be able to interconnect pulley combinations		
			"Design Specifications:		
			1. Ball of cotton string, twine rope type		
			2. 3 mm thick x 60 m long		
		BLR-developed	3. any color" Functional Specifications: used as storage case for motorized cart,		
		SCIKIT MECHANICS 003: SCIKIT	pulley sets, lever assembly, leveling hoses, and spare parts		
	52	MECHANICS Storage Case 003 (With Cover	Performance Specifications:		
		and Base Sheathing)	Design Specifications: please see Scikit Mechanics Storage Cases		
		BLR-developed: User's Manual	Functional Specifications: used as reference guide on assembly of Scikit Basic items		
	53	(SCIKIT BASIC)	Performance Specifications:		
			Design Specifications: please see attached BASIC User's Manual See Cover and Inside Pages Specifications		
		BLR-developed: User's Manual	Functional Specifications: used as reference guide on assembly of mechanics items		
	54	(SCIKIT MECHANICS)	Performance Specifications:		
			Design Specifications: please see attached MECHANICS Manual See Cover and Inside Pages Specifications		
		BLR-developed: Experiment Module (SCIKIT	Functional Specifications: used as guides to perform mechanics activities		
	55	MECHANICS)	Performance Specifications:		
			Design Specifications: please see attached EXPERIMENT MODULES		
	BLR-d	eveloped SCIENCE ANI	See Cover and Inside Pages Specifications MATHEMATICS EQUIPMENT (Elem, JHS, & SHS)		
		BLR-developed	Functional Specifications: used to aid teacher in		
		Blackboard Compass	constructing/drawing circles on board		
	1		Performance Specifications: should be able to draw visible/large circles on board		
			Design Specifications: please see Blackboard Compass		
		BLR-developed Blackboard Protractor	Functional Specifications: used to aid teacher in constructing/drawing angles, arcs, and circles on board		
	2	Totractor	Performance Specifications: should be able to draw visible/large angles, arcs, and circles on board		
		BLR-developed	Design Specifications: please see Blackboard Protractor Functional Specifications: used to demonstrate liquid convection		
2	3	Convection Tank (Thermocline Apparatus)	Performance Specifications: should be able to demonstrate liquid convection		
			Design Specifications: please see Convection Tank		
		BLR-developed Fresh Water Aquarium with Stand	Functional Specifications: Used to demonstrate the different thermal (heat) conductivities of five (5) different metals		
	4		Performance Specifications: must be able to demonstrate the different thermal (heat) conductivities of five (5) different metals,		
			with copper as the first metal, followed by aluminum, brass, mild steel and stainless steel.		
			Design Specifications: please see Heat Conductivity Apparatus		
		BLR-developed Heat Conductivity	Functional Specifications: Used to produce a defined beam of light		
	5	Apparatus	Performance Specifications: Must be able to produce a defined beam of light		
			Design Specifications: please see Light Source		
	6	BLR-developed Light Source (Single Slit)	Functional Specifications: used to demonstrate transformer principle		
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11	Manipulative Electricity Consumption Meter Model, blackboard BLR-developed: Manipulative Water	consumption Performance Specifications: must be able to demonstrate electricity consumption in meter reading Design Specifications: please see Manipulative Electricity Consumption Meter Functional Specifications: used to demonstrate water consumption	
11	Electricity Consumption Meter Model, blackboard	Performance Specifications: must be able to demonstrate electricity consumption in meter reading Design Specifications: please see Manipulative Electricity Consumption Meter	
11	Electricity Consumption Meter	Performance Specifications: must be able to demonstrate electricity consumption in meter reading	
11	Electricity Consumption Meter	Performance Specifications: must be able to demonstrate	
	BLR-developed:	Demonstrator Functional Specifications: used to demonstrate electricity	+
		Design Specifications: please see Linear Pair or Angle	
10		obtuse, and right angle and deduct the said angles' definitions	
10	Demonstrator	Performance Specifications: must be able to demonstrate acute,	
	Linear Pair/Angle	and some angle relationship	
	BLR-developed:	Design Specifications: please see Fraction Set Functional Specifications: used to demonstrate kinds of angles	
9		Performance Specifications: must be able to demonstrate fraction as a concept using whole and fractional part of a circle and square	
0			
	BLR-developed: Fraction Set	Functional Specifications: used to demonstrate part-to-whole concept using shapes	
		Design Specifications: please see Fresh Water Aquarium with Stand	
		environment.	
8		interaction among plants and animals in a marine-like	
		Performance Specifications: Must be able to demonstrate	
	Variable Power	animals	
	BLR-developed		
		Performance Specifications: should be able to provide variable AC	
7	Coils (Transformer)	voltages for student group work	
7	BLR-developed Set of	Design Specifications: please see Set of Coils Functional Specifications: used to provide variable AC and DC	
	BLR-developed	Performance Specifications: should be able to provide variable AC and DC voltages for student group work Design Specifications: please see Variable Power Supply Functional Specifications: Used to keep aquatic plants and animals Performance Specifications: Must be able to demonstrate interaction among plants and animals in a marine-like	

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		BLR-developed Storage Cabinet	Functional Specifications: Used for storage of science and mathematics equipment		
	1		Performance Specifications:		
			i chomance specifications.		
II Se	CIENCE		Design Specifications: please see Storage Cabinet EQUIPMENT (MARKET ITEMS)		
п. э	CIENCE	AND MATHEMATICS	EQUIPMENT (MARKET ITEMS)		
	CHEM	IICALS			
		Benedict's Solution, 100ml/bottle	Functional Specifications: Used to test for levels/ traces of simple reducing sugars		
			 Performance Specifications: Must be able to test for the presence (levels of traces) of reducing sugars such as glucose. A positive test with Benedict's reagent is shown by a color change from clear blue to: a) blue solution - 0 g % (no trace of simple reducing sugar) b) green precipitate- 0.5 to 1.0 g % (traces of simple reducing sugar) c) yellow precipitate- 1.0-1.5 g % (low simple reducing sugar) d) orange precipitate - 1.5 to 2.0 g % (moderate simple reducing sugar) e) brick-red precipitate - greater than 2.0 g % (high presence of simple reducing sugar) 		
4	1		 Design Specifications: 1. Features an aqua blue liquid 2. Chemical Formula: CuSO4•5H2O + Na2CO3 + Na2C6H5O7 3. Capacity: 100 mL 4. Comes in original screw type plastic packing with threaded chemical seal pack bottle. 5. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning 6. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 7. Expiration dates should be at least two years 8. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet) 9. Comes with a brand printed permanently on the product label 10. Must be brand new 		
	2	Boric Acid, 100 grams / bottle	 Functional Specifications: Used as a substrate in Flame test to visually identify boron or its specific unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as a substrate in Flame test to visually identify boron, or its ion based on the characteristic color it emits on the Bunsen flame. Boric acid emits a bright green color which indicates the presence of boron or its ion Design Specifications: Features a colorless or white, odorless and crystalline solid Chemical formula: H₃BO₃ Mass/bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. 		
		Bromothymol Blue	 chemical seal pack bottle. 5. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning 6. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 7. Expiration dates should be at least two years "8. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet) 9. Comes with a brand printed permanently on the product label 10. Must be brand new Functional Specifications: Used as an indicator of dissolved 		
	3		Carbon dioxide.		
	3		Performance Specifications: Must be able to show the effect of changes in abiotic factors on the ecosystem.		

		Design Specifications:	
		1. Color: Dark Blue/blue-black	
		2. Concentration range: 0.01% - 0.04% aqueous solution (as	
		indicated in the product label)	
		3. Capacity: 100 mL	
		4. Chemical formula :C ₂₇ H ₂₈ Br ₂ O ₅ S	
		5. With Safety Data Sheet	
		6. The chemical must be in original plastic packing with threaded	
		chemical seal pack bottle.	
		7. Properly labeled with the chemical name, concentration, name	
		of the manufacturer, appropriate hazard warning, manufacturing	
		and expiry date. Expiration shall be at least two years.	
		8. Must be branded and brand new. The brand shall be printed on	
		the product label.	
	Calcium Chloride,	Functional Specifications: Used as a substrate in Flame test to	
	100 grams / bottle	visually identify calcium or its ion based on the characteristic	
	100 grains / bottle	color it emits on the Bunsen flame.	
		color it chints on the Bullsen name.	
		Derformance Specificational Used on a substrate in Flore test to	
		Performance Specifications: Used as a substrate in Flame test to	
		visually identify calcium element, or an unknown metalloid ion	
		based on the characteristic color the chemical emits on the	
		Bunsen flame. Calcium chloride emits an orange red/yellowish red	
		color which indicates the presence of the calcium ion	
		Design Specifications:	
		1. Features a white powder, crystals or granules	
4		2. Chemical Formula: CaCl ₂	
		3. Mass per bottle: 100 grams	
		4. Comes in original screw type plastic packing with threaded	
		chemical seal pack bottle.	
		5. Properly labeled with full chemical name, chemical formula, the	
		name and address of the manufacturer and with appropriate	
		hazard warning.	
		6. With manufacturing and expiry date, chemical assay, and other	
		useful information regarding the product.	
		7. Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and with SDS (Safety	
		Data Sheet)	
		9. With brand printed permanently on the product label	
		9. With brand printed permanently on the product label 10. Must be brand new	
	Chemicals Storage	10. Must be brand new	
	Chemicals Storage	10. Must be brand new Functional Specifications: Used to separate, arrange and	
	Chemicals Storage Box	10. Must be brand new	
		10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside	
		10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications:	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, 	
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		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: 	
		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular With eleven (11) long divider slots 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: 1.Bin Type: Dividable grid container 2. Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm 3. Color: Clear (transparent) 4. Shape: Rectangular 5. With eleven (11) long divider slots 6. With fifteen (15) short divider slots to allow sub-division of the 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular With eleven (11) long divider slots With fifteen (15) short divider slots to allow sub-division of the containers, down to a 1-1/8-inch square compartment size. 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular With eleven (11) long divider slots With fifteen (15) short divider slots to allow sub-division of the containers, down to a 1-1/8-inch square compartment size. 	
5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular With eleven (11) long divider slots With fifteen (15) short divider slots to allow sub-division of the containers, down to a 1-1/8-inch square compartment size. With large, flat areas on all four sides for content identification With comfort grip handle 	
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5		 10. Must be brand new Functional Specifications: Used to separate, arrange and hold/contain/store chemicals inside Performance Specifications: Must be able to: a) separate, arrange, and hold/contain/store small- and medium sized chemicals by utilizing dividers (width/length) for compartmentalizing to increase/decrease available space for bigger or smaller size, which resists most solvents and chemicals, b) protect items against dirt, dust and damage and c) makes contents inside the box easy to see Design Specifications: Bin Type: Dividable grid container Material: Polypropylene (plastic) with the following dimensions: a) Depth/ Length: 571-573 mm b) Width: 444-446 mm c) Height: 304-306 mm Color: Clear (transparent) Shape: Rectangular With eleven (11) long divider slots With fifteen (15) short divider slots to allow sub-division of the containers, down to a 1-1/8-inch square compartment size. With comfort grip handle With strong stacking rims and multi-ribbed external sides to provide high impact strength. The container can be divided into compartments by length and/or width Accessories a) With lid/cover 	

		a) (LxWxH): 571-573 mm x 444-446 mm x 304-306 mm	
		iii) Color: Clear (transparent) Snap on molded lid/cover guides	
		provide secure stacking lids/covers snap securely on to	
		box	
		b) Dividers, width (short)	
		i) Shape: Rectangular	
		ii) Material: Polyethylene/polypropylene (plastic) with the	
		following dimensions: a) Length: 396-400 mm	
		b) Height: 292-294 mm	
		iii) Quantity: 15 pc	
		iv) Color: Gray/black	
		c) Dividers, (length/long)	
		i) Shape: Rectangular	
		ii) Material: Polyethylene/polypropylene (plastic) with the	
		following dimensions:	
		a) Length: 571-573 mm	
		b) Height: 304-306 mm iii) Quantity: 11 pc	
		iv) Color: Gray/black	
		12. Must be free from breakage, cracks, chipped rims and sharp	
		edges, surface irregularities and all other defects not stated herein	
		13. Submission of the original copy of the Test certificate/s issued	
		by the testing unit, like DOST material testing facilities or at any	
		DOST-accredited testing institution attesting that the material of	
		the chemicals storage box is polypropylene (plastic), to validate the	
		conformity of the material to the technical specifications. A	
		representative of the Procuring Entity should be present during	
		preparation and submission of the material test specimens to testing facility. All expenses for the said test shall be shouldered	
		by the Supplier.	
		14. Must be packed in a sturdy box	
		15. Comes with a brand printed permanently on a sturdy box	
		16. Must be brand new	
	Copper Sulfate,	Functional Specifications: Used as: a) an oxidizing agent or	
	CuSO4, 100 grams /	oxidant and is reduced in a spontaneous [chemical (redox)	
	bottle	reaction decreasing its oxidation state with metals above it, like zinc, in the Activity Series of Metals]	
		b) a substrate in Flame test to visually identify copper or its ion	
		based on the characteristic color it emits on the Bunsen flame.	
		Performance Specifications: Must be able to	
		a) oxidize the other reactant of a spontaneous redox reaction by	
		gaining electrons reducing its oxidation state with metals above it,	
		like zinc, in the Activity Series of Metals, resulting in copper in the	
		free state and the salt of the metal being displaced.	
		b) a substrate in Flame test to visually identify copper or its ion	
		based on the characteristic color it emits on the Bunsen flame. Copper sulfate emits blue green color on the Bunsen flame.	
		Copper suitate ennis blue green color on the Bullsen name.	
6		Design Specifications:	
-		1. Features a blue, odorless crystalline solid	
		2. Chemical formula: CuSO ₄	
		3. Mass per bottle: 100 g	
		4. Comes in original screw type plastic packing with threaded	
		chemical seal pack bottle.	
		5. Properly labeled with full chemical name, chemical formula, the	
		name and address of the manufacturer and with appropriate hazard warning.	
		6. With manufacturing and expiry date, chemical assay, and other	
		useful information regarding the product."	
		7. Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and SDS (Safety Data	
		Sheet)	
		9. With brand printed permanently on the product label	
		10. Must be brand new Functional Specifications: Used in microscopy as biological stain.	
	O	Hunchonal Specifications, Used in microscopy as biological stain	
	Gentian Violet, 100	r unchonar opecifications. Oscu in incroscopy as biological stant.	
	Gentian Violet, 100 ml / bottle		
		Performance Specifications: Must be able to enhance animal cell	
7			
7		Performance Specifications: Must be able to enhance animal cell	
7		Performance Specifications: Must be able to enhance animal cell image as to presence or absence of some organelles. Design Specifications: 1. Capacity (minimum): 100 mL per bottle	
7		Performance Specifications: Must be able to enhance animal cell image as to presence or absence of some organelles. Design Specifications:	

Iodine Solution, 100 ml / bottle Magnesium Ribbon, 25 grams, 1 roll	 4. The chemical must be in original plastic packing with threaded chemical seal pack bottle. 5. Properly labeled with chemical name, name of the manufacturer, appropriate hazard warning, manufacturing and expiry date. Expiration shall be at least two years. 6. Must be branded and brand new. The brand shall be printed on the product label. Functional Specifications: Used in microscopy as biological stain. Performance Specifications: Must be able to enhance plant cells as to presence or absence of some organelles. Design Specifications: Color: Light orange-brown Alternate name: Lugol's Solution With Safety Data Sheet The chemical must be in original plastic packing with threaded chemical seal pack bottle. Properly labeled with chemical name, name of the manufacturer, appropriate hazard warning, manufacturing and expiry date. Expiration shall be at least two years. Must be branded and brand new. The brand shall be printed on the product label. 		
ml / bottle Magnesium Ribbon,	 Functional Specifications: Used in microscopy as biological stain. Performance Specifications: Must be able to enhance plant cells as to presence or absence of some organelles. Design Specifications: Capacity: 100 mL per bottle Color: Light orange-brown Alternate name: Lugol's Solution With Safety Data Sheet The chemical must be in original plastic packing with threaded chemical seal pack bottle. Properly labeled with chemical name, name of the manufacturer, appropriate hazard warning, manufacturing and expiry date. Expiration shall be at least two years. Must be branded and brand new. The brand shall be printed on the product label. 		
Magnesium Ribbon,	 to presence or absence of some organelles. Design Specifications: Capacity: 100 mL per bottle Color: Light orange-brown Alternate name: Lugol's Solution With Safety Data Sheet The chemical must be in original plastic packing with threaded chemical seal pack bottle. Properly labeled with chemical name, name of the manufacturer, appropriate hazard warning, manufacturing and expiry date. Expiration shall be at least two years. Must be branded and brand new. The brand shall be printed on the product label. Functional Specifications: Used as a reactant and is ignited over a 		
	 Capacity: 100 mL per bottle Color: Light orange-brown Alternate name: Lugol's Solution With Safety Data Sheet The chemical must be in original plastic packing with threaded chemical seal pack bottle. Properly labeled with chemical name, name of the manufacturer, appropriate hazard warning, manufacturing and expiry date. Expiration shall be at least two years. Must be branded and brand new. The brand shall be printed on the product label. Functional Specifications: Used as a reactant and is ignited over a 		
	Functional Specifications: Used as a reactant and is ignited over a		
	Performance Specifications: Must be able to produce a highly exothermic combustion reaction resulting in a blinding white light and intense heat when ignited over a flame. A white powdery solid, magnesium oxide is produced		
	 Design Specifications: 1. Features a relatively soft, lightweight solid metal 2. Color: Shiny silvery graywhite 3. Chemical formula: Mg 4. Form: Solid (ribbon) 5. Mass per roll: 25-27 g 6. Number of roll: 1 roll 7. Comes in original plastic packing 8. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning. 9. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 10. Expiration dates should be at least two years 11. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet) 12. Comes with a brand printed permanently on the product label 		
Manganese Dioxide, 50 grams / bottle	13. Must be brand new Functional Specifications: Used as a catalyst to demonstrate decomposition reaction of hydrogen peroxide and observe its effect on the rate of chemical reaction		
	Performance Specifications: Must be used as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water and to demonstrate its effect on the rate of chemical reaction Design Specifications: 1. Form: Solid powder		
	 Color: Brown-black solid/ blackish or brown solid Chemical formula: MnO₂ Mass per bottle: 50 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. Expiration dates should be at least two years 		
		 hazard warning. 9. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 10. Expiration dates should be at least two years 11. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet) 12. Comes with a brand printed permanently on the product label 13. Must be brand new Manganese Dioxide, Functional Specifications: Used as a catalyst to demonstrate decomposition reaction of hydrogen peroxide and observe its effect on the rate of chemical reaction Performance Specifications: Must be used as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water and to demonstrate its effect on the rate of chemical reaction Design Specifications: Form: Solid powder Color: Brown-black solid/ blackish or brown solid Chemical formula: MnO₂ Mass per bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 	 hazard warning. 9. With manufacturing and expiry date, chemical assay, and other useful information regarding the product. 10. Expiration dates should be at least two years 11. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet) 12. Comes with a brand printed permanently on the product label 13. Must be brand new Functional Specifications: Used as a catalyst to demonstrate decomposition reaction of hydrogen peroxide and observe its effect on the rate of chemical reaction Performance Specifications: Must be used as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water and to demonstrate its effect on the rate of chemical reaction Design Specifications: Form: Solid powder Color: Brown-black solid/ blackish or brown solid Chemical formula: MnO₂ Mass per bottle: 50 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning. With manufacturing and expiry date, chemical assay, and other useful information regarding the product.

1		10. Comes with a brand printed permanently on the product label	
		11. Must be brand new	
	Microscope's	Functional Specifications: Used to increase the resolving power of	
	Immersion Oil,	the microscope's 100x objective.	
	100mL/bot		
		Performance Specifications: Must be able to give a clear and very	
		distinct image of the specimen.	
		Design Specifications:	
		1. Capacity: 100 mL/bottle	
		2. Non-drying, clear and transparent	
11		3. With Refractive index: 1.515 - 1.518 (as indicated in SDS,	
		product label or certificate)	
		4. With Safety Data Sheet	
		5. The chemical must be in original plastic packing with threaded	
		chemical seal pack bottle.	
		6. Properly labeled with chemical name, name of the	
		manufacturer, appropriate hazard warning, manufacturing and	
		expiry date. Expiration shall be at least two years.	
		7. Must be branded and brand new. The brand shall be printed on	
		the product label.	
	Phenolphthalein, 100	Functional Specifications: Used as an indicator to effect a color	
	grams/bottle	change to distinguish an acid from a base and in perforing acid	
	grains/ bottle	base titration	
		Performance Specifications: Must be used as an indicator to	
		distinguish and acid from a base and in performing acid base	
		titration, as it indicates the change in pH by changing its color,	
		the results vary:	
		a) For a base, it gives a pink color	
		b) For an acid, it is colorless	
		Design Specifications:	
10		1. Features a white to cream, odorless solid powder	
12		2. Chemical formula: $C_{20}H_{14}O_4$	
		3. Mass per bottle: 100 g	
		4. Comes in original screw type plastic packing with threaded	
		chemical seal pack bottle.	
		5. Properly labeled with full chemical name, chemical formula, the	
		name and address of the manufacturer and with appropriate	
		hazard warning	
		6. With manufacturing and expiry date, chemical assay, and other	
		useful information regarding the product.	
		7.Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and SDS (Safety Data	
		Sheet)	
		9. Comes with a brand printed permanently on the product label	
		10. Must be brand new	
	D / 011 .1		
	Potassium Chloride,	Functional Specifications: Used as a substrate in Flame test to	
	100 grams / bottle	Functional Specifications: Used as a substrate in Flame test to visually identify a specific element or an unknown metalloid ion	
		visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame.	
		visually identify a specific element or an unknown metalloid ion	
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		visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element,	
		visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen	
		visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame.Performance Specifications: Must be used as:a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion	
		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction 	
		visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame.Performance Specifications: Must be used as:a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion	
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13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate hazard warning" 	
13		 visually identify a specific element or an unknown metalloid ion based on the characteristic color it emits on the Bunsen flame. Performance Specifications: Must be used as: a) a substrate in Flame test to visually identify potassium element, or its ion based on the characteristic color it emits on the Bunsen flame. Potassium chloride emits a light lilac color which indicates the presence of the potassium ion b) as a catalyst and to undergo a spontaneous chemical reaction in the decomposition of hydrogen peroxide to produce bubbles of oxygen gas and water to demonstrate the effect of catalyst on the rate of chemical reaction Design Specifications: Features a white crystalline solid Chemical formula: KCl Mass per bottle: 100 g Comes in original screw type plastic packing with threaded chemical seal pack bottle. Properly labeled with full chemical name, chemical formula, the name and address of the manufacturer and with appropriate 	

		7. Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and SDS (Safety Data	
		Sheet) 9. Comes with a brand printed permanently on the product label	
		10. Must be brand new	
	Potassium Iodide,	Functional Specifications: Used as:	
	100 grams / bottle	a) a substrate in Flame test to visually identify potassium or its	
		ion based on the characteristic color it emits on the Bunsen flame	
		b) a catalyst to demonstrate decomposition reaction of hydrogen	
		peroxide to form water and oxygen Performance Specifications: Must be:	
		a) used as a substrate in Flame test to visually identify potassium,	
		or its ion based on the characteristic color the chemical emits on	
		the Bunsen flame.	
		Potassium iodide emits a lilac color which indicates the presence	
		of the potassium ion b) able to undergo a spontaneous decomposition of hydrogen	
		peroxide into bubbles of oxygen gas and water	
14		Design Specifications:	
		1. Features white granules and crystals solid 2. Chemical formula: KI	
		3. Mass per bottle: 100 g	
		4. Comes in original screw type plastic packing with threaded	
		chemical seal pack bottle.	
		5. Properly labeled with full chemical name, chemical formula, the	
		name and address of the manufacturer and with appropriate hazard warning	
		6. With manufacturing and expiry date, chemical assay, and other	
		useful information regarding the product.	
		7. Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet)	
		9. Comes with a brand printed permanently on the product label	
		10. Must be brand new	
	Sodium Hydroxide	Functional Specifications: Used:	
	(Lye), 250	a) to differentiate an acid from a base	
	grams/bottle	b) as a titrant added from a base burette in acid base titration	
		Performance Specifications:	
		a) Must turn pink when added with drop/s of phenolphthalein and	
		be able to neutralize an acid to form salt and water	
		b) In acid-base titration, the sodium hydroxide is used as a titrant	
		added from a base buret to a known quantity of the analyte (the	
		unknown solution) until the reaction is complete. Knowing the	
		volume of titrant added allows the determination of the	
		concentration of the unknown using the formula:	
		Na=NbVb/Va c) pH value: pH 13-14	
1-			
15		Design Specifications:	
		1. Features a white semi-transparent odorless hygroscopic solid	
		2. Chemical formula: NaOH 3. Mass per bottle: 250 grams	
		4. Comes in original screw type plastic packing with threaded	
		chemical seal pack bottle.	
		5. Properly labeled with full chemical name, chemical formula,	
		the name and address of the manufacturer and with appropriate hazard warning	
		6. With manufacturing and expiry date, chemical assay, and other	
		useful information regarding the product.	
		7. Expiration dates should be at least two years	
		8. Accompanied with Certificate of Analysis and SDS (Safety Data Sheet)	
		9. Comes with a brand printed permanently on the product label	
		10. Must be brand new	
	Yeast, active dry, 100	Functional Specifications: Used to break down some of the starch	
	grams / bottle	and sugar in the mixture to produce more yeast cells and carbon	
16		dioxide gas.	
		Performance Specifications: Must be able to illustrate asexual type	
		of reproduction.	

rr			· · · · · ·	
		them over a Bunsen burner's flame up to more than 100°C for normal, standard use service		
		Design Specifications: 1. Features a cylindrical container with straight sides, a flat		
		bottom, with a beaded rim and with a small spout (or "beak") to aid in pouring.		
		2. Material: Borosilicate, clear, smooth, and transparent bubble-		
		free glass with the following dimensions: Outside diameter: 68-70mm		
		Height: 90-92 mm Thickness: 1.5 mm to 2.0 mm		
		 Type: Griffin, low form Features an easy-pour spout 		
		5. With permanent colored graduations of approximate volumes, large		
		colored easy to read block letters, numbers and inscriptions/markings		
		enamelled onto the glass, which includes the following: a) Capacity: 250 mL		
		b) Manufacturer's name or trademark c) With large white marking spot		
		d) With double graduated metric scale d1) With marking graduation to fill: starts at 25 mL in 25 mL		
		increments d2) With marking graduation to empty: starts at 0 mL in 200		
		mL increments d3) Graduation interval: 25 mL		
		d4) Graduation range: 25 mL to 200 mL 6. Must be able to stand solidly/is stable when placed on a level		
		surface 7. Must be free from breakage, cracks, chipped rims, sharp edges,		
		striae, surface irregularities including all other defects not stated herein		
		8. Must be able to withstand heating of water up to 150 deg C9. Wrapped in paper, enclosed in bubble wrap and packed		
		individually in a compartmentalized box 10. Comes with a brand enamelled permanently onto the glass		
	Beaker, borosilicate,	10. Comes with a brand chanched permanently onto the gass 11. Must be brand new Functional Specifications: Used to contain/hold/prepare solids		
	50 mL	and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 100 °C		
		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 100 °C		
		Design Specifications: 1. Features a cylindrical container with straight sides, a flat		
		bottom with a beaded rim and a small spout (or "beak") to aid in pouring		
		2. Material: Borosilicate, clear, smooth, and transparent bubble- free glass with the following dimensions: Outer diameter: 40-42 mm		
		Height: 55-57 mm Thickness: 1.5 to 2.0 mm		
2		3. Type: Griffin, low form 4. Features an easy-pour spout		
		5. With permanent colored graduations of approximate volumes, large colored easy to read block letters, numbers and inscriptions/		
		markings enamelled onto the glass, which includes the following: a) Capacity: 50 mL		
		b) Manufacturer's name or trademark c) With large white marking spot		
		d) With single graduated metric scaled1) With marking graduation to fill:		
		starts at 10 mL in 10 mL increments "		
		d2) Graduation interval: 10 mL d3) Graduation range: 10 mL to 40		
		 6. Must be able to stand solidly/is stable when placed on a level 		
	1	surface		

3	Burette, 10 mL capacity (acid)	 7. Must be free from breakage, cracks, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein 8. Must be able to withstand heating up water up to 150°C 9. Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box. 10. Comes with a brand enamelled permanently onto the glass 11. Must be brand new Functional Specifications: Used to hold/contain the acid up to 10 mL capacity as a titrant to be delivered/ dispensed to titrate the base in acid-base titration to determine unknown concentration of base Performance Specifications: Must hold/contain the acid up to 10 mL capacity as a titrant to be delivered/ dispensed to titrate the base (with color change from pink to colorless when end point is reached) in acid-base titration to determine unknown concentration of base Design Specifications: 1. Features a long, vertical cylindrical glass tube with a volumetric graduation on its full length, with a leak-free plastic stopcock at its lower end and a tapered capillary tube at the stopcock's outlet. 2. Material : Clear, transparent, smooth, bubble-free high quality borosilicate glass, with the following dimensions: Length of burette: 510-620 mm 3. Fitted with grease-free interchangeable with 1.5 to 2 mm bore plastic leak-free stopcock plug. Material of of stopcock: PTFE key " 4. With permanent, durable colored markings in fine, clear, continuous, sharp, of uniform width, distinct colored graduation lines of approximate volumes, clearly legible and indelible block letters, inscriptions/ markings under normal conditions of use of the burettes; and large, easy-to-read numbers every 0.5 mL enamelled permanently onto the glass before the first graduation line which includes the following: a) Manufacturer's name or trademark b) Capacity: 10 mL c) Sub. Div. : 0.05 ml d) Tolerance: ± 0.02-±0.03 mL 	
		 authoritative standards appropriate to the goods' country of origin 6. Marked with an individual serial number (Serially Numbered) 7. Individually placed in bubble wrap, enclosed in a polystyrene and packed in a padded sturdy box. 8. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein. 9. Includes Operations Manual in English, 10. With Activity Sheets/Teacher's Manual in English 11. Comes with a brand enamelled permanently onto the glass 12. Must be brand new 	
4	Burette, 10 mL capacity (base)	 Functional Specifications: Used to hold/contain the base as a titrant to be delivered/ dispensed to tirate an acid up to 10 mL capacity in acid-base titration to determine unknown concentration of acid Performance Specifications: Must hold/contain the base as a titrant to be delivered/ dispensed to titrate an acid up to 10 mL capacity (with color change from colorless to very faint pink when end point is reached) in acid-base titration to determine unknown concentration of acid 	
		Design Specifications: 1. Features a long, graduated glass tube, with a leakage-free stopcock at its lower end and a tapered capillary tube at the screw type stopcock's outlet.	

5 2. Material : Clear, immaganem, bubble free, smooth homsilicite glass, with the following dimensions: 3. With FTFE (preventhread type/metilic value-Butaflow leak-proof plastic) stoppock 3. With PTFE (preventhread type/metilic value-Butaflow leak-proof plastic) stoppock 3. With permanent, durable colored muchings in fine, clear, committune, short, durable wolds, downlow graduation the terms and macriptions with farge, easy-to-roud numbers nevery 0.5-1.0 mL stubiosisme ensumedial permanently onto the glass, before the first graduation line, which includes the following: a) Gametic 10 mL 0.5-1.0 mL stubiosisme ensumedial permanently onto the glass, before the first graduation line, which includes the following: a) Gametic 0.55 mL 0.5 mL b) Gametic 0.55 mL 0.5 mL c) Clears: 8 10 Clears: 8 b) B. DEN: 0.05 mL 0.5 mL c) Reference Term; 20/CL77C 10 Reference Term; 20/CL77C c) Rith Statement of Accuracy /Certificator of Accuracy Latest feasure 10 c) Hit for the diministic to major bubbles. 6. With Statement of Accuracy /Certificator of Accuracy Latest feasure 10 c) Rith Particle 10 Methy and the goods' coarray of origin 7. Marked with an individual serial number (Scrially Numberol). c) Ruther Core from breakegy, leake, cracks, scratches, hipped rise, hipped rise, hipped rise, hipped rise in Rudok hipped rise in Rudok hipped rise in Rudok hipped rise in Rudok hipped rise Rudok hipped rise in Rudok hipped rise in Rudok hipp					
5 a) Length of burcts: 144.5-462.0 mm b) With PTE (nerve-thread type/model: wate-Rotallow leak-proof planticit stopcock continuous, abary, of undirent with, distinct coording graduation lines of approximate volumes, clearly tigble and indelible block letters and inactifyings with strenge, casy-for-end numbers every 0.5-1.0 mL autobioisme enamelied permanently onto the glass, before the first graduation lines, which includes the following: a) Sub. D: 10.05 mL b) C capacity: 10 mL c) Sub. D: 10.05 mL c) Capacity: 10 mL c) Sub. D: 10.05 mL d) Class: 8 d) Sub. D: 10.05 mL d) Sub. D: 10.05 mL d) Class: 8 d) Sub. D: 10.05 mL <lid) 10.05="" d:="" li="" ml<="" sub.=""> <lid> Sub. D: 10.0</lid></lid)>					
5 With PTEE (nerve thread type/nectic value-Rosaflow Isake-proof plastic) stopock 4. With permanent, durable colored marking in fine, clear, include the durable of the stop of t					
5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 S 5 Designs 6 Nutrin and approximation of the standard of the sta					
5 With permanent, durable colored markings in fine, clear, construction, shorp, of uniform with di, distinct colored graduation lines of approximate volumes, clearly legisle and indelible block in the stand intermediate permanent of the stand intermediate permanent perman					
5 continuous, sharp, of uniform width, distinct colored graduation lines of approximate volumes, clearly legible and indelible block letters and inscriptions with large, sure, to read numbers every before the first graduation line, which induces the following: a) Manufacturer's name or trademark b) Copacity: 10 ml. c) Sub. Dix: 0.05 ml. d) Toiennes: 0.05					
5 Immess of approximate volumes, clearly legible and indefible block letters and inscriptions with large, easy-or-ad numbers every 0.5-1.0 mL subdivisions enamelied permanently onto the glass, block the first graduation line, which includes the following, if the start of trademarks is a start of trademark in the start of trademark is the start of the start of trademark in the start of trademark is the start of trademark in the start of trademark is the start of trademark is the start of trademark is the start of the start of trademark is the start of the st					
5 Descriptions with large, casy-to-read numbers every 0.5.1.0 mixed biodivisions ensurelled permanently onto the glass, before the first graduation line, which includes the following: al Manufacturer's name or trademark b) 0.51.0 mixed biodivisions environment of trademark b) 0.51.0 mixed biodivisions 0.51.0 mixed biodivisions 0.5.0 mixed biodivisions 0.51.0 mixed biodivision biodivisions 0.5.0 mixed biodivisi					
5 Defore the first graduation line, which includes the following: a) Manufacture's name or trademark b) Capacity: 10 mL c) Sub_W: 30.05 mL c) Capacity: 10 mL c) Sub_W: 30.05 mL c) Class: B c) Unit of volume: mL c) Unit of volume: mL c) Sub_W: 30.05 mL c) Class: B c) With machine det flow control which is made from thick walled control of the burette mo cavity at the join likely to trap air bubbles. b. With Statement of Accuracy / Certificate of Accuracy I latest issued by the concerned institution which must conform to the authoritative statemate of Accuracy / Certificate of Accuracy I latest issued by the concerned institution which must conform to the authoritative statemate of Accuracy / Certificate of Accuracy I latest issued by the concerned institution which small of the buret. a flow deck in a padded sturdy how statest of the buret. 10 for the barret in or state the padde in a padde in a padde in paddet. 12. Conces with a brand cramelic de parsavers and substances 13. Must be brand new 13. Must be brand new for solve gentle barting of glasswares and substances 14. Capacity Partensana Specifications:					
3 a) Manufacturer's name or indemark 			0.5-1.0 mL subdivisions enamelled permanently onto the glass,		
5 Design 2005 ml 6 Sub. DW: 10.05 ml 6) Tolerance: 0.05 ml Old in divolume: ml 1 Dian dian divo			before the first graduation line, which includes the following:		
5					
5 i) Tokrane:: 0.05 ml. i) Unit of volume: nL i) E iii divolume: nL iii iikely to trap ani bubbles. iiii iikely to trap ani bubbles. iiiiiiiiiiiiiiiiiiiiiiii					
5 ^d Class: B ^d Outri of volume: int. ^d Ex ^d Reference Temp: 20°C-27°C ⁵ . With machine Jet flow control which is made from thick walled ^c capitality rubing which forms an integral part of the burette ^{ub} of exercises ^d Cause: B ^d Cause: B ^d Cause: C					
5 e) Unit of volume: mL 0 8 g) Reference Temp: 20°C-27°C 5. With machine Jet How control which is made from thick walled capillary tubing which forms an integral part of the burette shall have more avaity at the join likely to trap air bubbles. 9 0. Savity at the join likely to trap air bubbles. 10 10 0. Savity at the join likely to trap air bubbles. 11 10 10 12 10 10 13 Match with an individual serial number (Serially Numbered). 14 10 10 15 0. Site from breakage, leaks, cracks, acratches, chipped rims, sharbe dires, stringe irreguinities including all other defects not stude herein. 16 11 With Activity Sheard (Tacker's Mamual in English) 12. Comes with a brand enamelicid permanentity onto the glass 13. Must be brand new 14 With Activity Sheard (Tacker's Mamual in English) 14. With Activity Sheard (Tacker's Mamual in English) 13. Must be able to produce hot, consistent open flame alor slow genith heating of glasswares and substances 13. Must be able to produce hot, consistent open flame alor slow genith heating of glasswares and substances 13. Must be able to produce hot, consistent open flame alor slow genith heating of glasswares and substances 10 15 11 Featu			,		
5 ¹ Ex ¹ gl Reference Temp: 20°C-27°C ⁵ . With machine Jet flow control which is made from thick walled capillary tubing which forms an integral part of the burette shall have no cavity at the join likely to trap air bubbles. 6. With Statement of Accuracy / Certificate of Accuracy) latest issued by					
5 Burner, Alcohol, glass, 150 ml. Functional Specifications: Decimating of algass tubics 5 5 Difference Specifications: Decimating of algass, 150 ml. 5 5 Difference Specifications: Decimating of algass, 150 ml. 5 3 Difference Specifications: Decimating of algass, 150 ml. 6 With Specifications: Decimating of algass, 150 ml. Difference Specifications: Difference Difference Dif					
5 With machine Jeff Bow control which is made from thick walled capillary tubing which forms an integral part of the burette shall have no cavity at the join likely to trap air bubbles. 6. With Statement of Accuracy/Certificate of Accuracy) latest issued by the concerned institution which must conform to the authoritative must be the for from bubble work, enclosed in polystyrene and packed in a padded strudy box 9. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp edges, stras, surface irregularities including all other defects not stated herein. 10. Includes Operations Manual in English 12. Comes with a brand cnamelied permanently onto the glass 13. Must be brand new West to produce hot, consistent open figures, 150 ml. Burner, Alcohol, glass, 150 ml. Capacity Functional Specifications: Wust be brand new West to produce hot, consistent open figure solw/genite heating of glasswares and substances blocan withstand prologed heating without breaking el visually determine the identity of an unknown metal or metalloi ion based on the charcteristic color the chemical/salt emits on the Bunsen flame alfor slow/genite heating of glasswares and substances blocan withstand prologed heating without breaking el visually discrimine. The identity of an unknown metal or metalloi ion based and paly these in qualitative analysis through an activity, on Flame Test d) bend a glass stubing el heat.to sterilize, to accelerate, and to trigger chemical reactions. 9. Poing Specifications: blocan with throwaded mouth throwaded mouth 2. Material 1 wick holder art transparent, smooth, bubble-free glass. 3. Capacity: 150 ml. 4. With rust/corrosive-free 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 3. With shiny, smooth, and corosion-fr					
5 shall have no cavity at the join likely to trap air bubbles. 6. With Statement of Accuracy /Certificate of Accuracy) latest issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin 7. Marked with an individual serial number (Serially Numbered). 8. Individually placed in hubble wrap, enclosed in polystyrene and packed in a padded stury box. 9. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp edges, stire, surface inregularities including all other defects not stated herein. 10. Includes Operations Manual in English. 10. Includes Operations Manual in English. 11. With Activity Shceris /Teacher's Manual in English. 12. Monte Market and channelled permanently onto the glass 13. Burner, Alcohol, glass, 150 ml. Capacity (English) 12. Gorden by genith chaing of glasswares and substances 19. Graphic of solv genith chaing of glasswares and substances b)can writhstand prolonged heating without breaking 10. Includes Operative, consistent open flame (activity, on Flame Test) 10. Solv genith chaing of glasswares and substances 10. Solv genith chaing of glasswares and substances 10. Solv genith chaing of glasswares and substances 10. Solv genith chaing of glasswares and substances 10. Solv genith chaing of glasswares and substances 10. Solv genith chaing of glasswares and substances 11. Grant as a globe-shalaped body and flat base (bottom) with threaded mouth.					
5 0. exity at the join likely to trap air bubbles. 6. With Statement of Accuracy /Certificate of Accuracy) latest issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin 7. Marked with an individual serial number (Serially Numbered). 8. Individually placed in bubble ways, enclosed in polystyrene and packed in a padded sturdy box 9. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp cdges, strike, surface irregularities including all other defects not stated herein. 10. Includes Operations Manual in English. 11. With Activity Shores/Teacher's Manual in English. 12. Comes with a brand enamelled permanently onto the glass 13. Must be brand new Purietional Specifications: Must be brand new Performance Specifications: Must be brand the baiting of glasswares and substances blass, 150 ml. Capacity * Performance Specifications: Must be baiting of an unknown metal or metalloid ion based on the characteristic color the chemical fait emitig of a unknown metal or metalloid ion based on the characteristic color the chemical fait emity, on Plane Test d) bend a glass tubing e) heating allow-shaped body and flat base (bottom) with the allow of structs a globe-shaped body and flat base (bottom) with there allow is holder : formaded 5 Design Specifications: 1. Pe			capillary tubing which forms an integral part of the burette		
5 6. With Statement of Accuracy /Certificate of Accuracy) latest issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin 7. Marked with an individual serial number (Scrially Numbered). 8. Individually placed in bubble wrap, enclosed in polystyrene and packed in a padded stury box 9. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp edges, strike, sufface irregularities including all other defects not stated herein. 10. Includes Operations Manual in English 11. Other operations Manual in English 12. Comes with a brand neme. State of the strike of					
5 issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin 7. Marked with an individual serial number (Scrially Numberd). 8. Individually placed in bubble wrap, enclosed in polystymene and packed in a padded sturdy box 9. Must be free from breakage, leaks, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein. 10. Includes Operations Manual in English. 11. With Activity Sheets/Teacher's Manual in English. 12. Comes with a brand enamelied permanently onto the glass 13. Must be brand new Functional Specifications: Use the state of the state of the state of the state of the state algors and state applications: Must be band new Burner, Alcohol, glass, 150 ml. Capacity Functional Specifications: Must be band new Functional Specifications: With the tailing of glasswares and substances blean withstand prolonged heating without breaking of visually determine the identity of an unknown metal or metalloid to based on the characteristic color the chemical/sall trains on the Burner flame to investigate reactions of ions and statid apply these in qualitative analysis through an activity, on Flame Test d) bend a glass tubing of here combustion purposes and techniques Design Specifications: In Pertures aglobus - shaped body and flat base (bottom) with threaded mouth 2. Material of wick holder: Threaded 3. With nut; (Our orisive-free wick holder permanently attached to a threaded mouth 2. Material of wick holder: An end cover(caps : Nickel- plated brass b) Type of wick is Braided 9. With shing, smooth, and corrosion-free metal snutf/snap-on cover(cap)					
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5 f) for combustion purposes and techniques 5 Design Specifications: Features a globe-shaped body and flat base (bottom) with threaded mouth Material 1: Sturdy, heavy walled, clear, transparent, smooth, bubble-free glass, Capacity 150 mL With rust/corrosive-free wick holder permanently attached to a threaded base		glass, 150 ml.	 flame for slow/gentle heating of glasswares and substances "Performance Specifications: Must be able to produce hot, consistent open flame a)for slow/gentle heating of glasswares and substances b)can withstand prolonged heating without breaking c) visually determine the identity of an unknown metal or metalloid 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 		
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		8. Wrapped in paper, enclosed in bubble wrap and packed in a compartmentalized box9. Must be free from rust, breakage, cracks, scratches, chipped		
		rims, sharp edges, striae, surface irregularities including all other defects not stated herein.10. Comes with a brand printed permanently onto the box		
		11. Must be brand new		
	Burner, Bunsen	Functional Specifications: Used to : a) produce single, hot, continuous, consistent open blue flame b) for slow/gentle heating of glasswares and substances,		
		 c) rapidly heat high-boiling liquids with low flammability like water d) heat, sterilize/accelerate/ trigger chemical reactions, 		
		e) for combustion purposes		
		Performance Specifications: Must be able to produce a single, hot, continuous, consistent open blue flame to:		
		a) visually determine the hottest part of the Bunsen flameb) 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		
		 c) bend a glass tubing d) used as a heating medium to demonstrate distillation, as one of the simple separation techniques 		
		e) slow/gentle heating of glasswares and substances f) rapidly heat high-boiling liquids with low flammability like		
		water g) heat,to sterilize, to accelerate, and to trigger chemical reactions,		
		h) for combustion purposes and techniques		
		Design Specifications: 1.Type : Gas type with accessories		
		 Features a long, hollow burner tube with stabilizer top and serrated inlet tube Material for burner tube : Aluminum, with the following 		
6		dimensions: . a) Diameter of burner tube: 11-12 mm diameter b) Over-all height: 152-155 mm		
		4. With flame stabilizer5. With threaded gas needle valve (located opposite to serrated		
		inlet tube) 6. Material of base: Nickel-plated zinc-alloy 7. Must be able to stand solidly/is stable when placed on a level		
		surface 8. Individually packed in a sturdy box		
		9. With User's Manual and Operations Guide in English 10. Comes with Activity Sheets with Teacher's Manual in English 11. For numbers #9 to 10; the technical specifications (a-e) must		
		be followed: a) For Contents List of materials, In Table form b) For User's Manual, Instruction Sheets/Assembly Guides, In		
		sentences format i) With sentences grammatically correct and ii) With correct spelling and terminologies, punctuations		
		and others c) In original print, not photocopied		
		d) In colored pictures, drawings/illustrationse) In 0.3 mm minimum thickness plastic laminated keycard that shall contain the actual colored picture of the model		
		including the name: labeled with the required parts with details as follows: i) Paper Size : A4 size , 80 gsm		
		ii) Font size : 12		
		iv) Margins on all sides with 2 point width border line		
		 v) Line with arrow head of 1.25 point with width shall point to the specific part being labeled 10. What he fore form must evolve chirard size and share of the specific part being and share of the specific part of		
		12. Must be free from rust, cracks, chipped rims and sharp edges, surface irregularities and all other defects not stated herein.		
		13. Comes with a brand printed permanently on the box	<u> </u>	

<u> </u>	14. Must be brand new	
Cork Stopper # 5 (fc Ø 16mm test tube)		
	Performance Specifications: Must be able to seal the openings of $16 \ge 150$ mm test tubesand other laboratory glassware and to prevent leaks, hazards and contamination yield positive results during chemical reactions	
7	 Design Specifications: 1. Features an extra Select Grade cylindrical with a tapered bottom end with fewer lenticels (crevices) 2. Material of cork : Elastic and near impermeable with the following dimensions: a) Height : 22-22.5 mm b) Top Ø : 17-17.5 mm 	
	 c) Bottom Ø: 15-15.5 mm 3. Number of cork stopper: #5 4. Must perfectly fit the 16 x 150 mm test tube 5. Must be free from defect of discontinuities in the cork tissue such as ""lung"", exfoliation, and insect,ant/worm galleries and all other defects not stated herein. 6. Packed in a resealable plastic bag 7. With brand printed permanently on the resealable plastic bag 8. Must be brand new 	
Crucible with lid/cover	Functional Specifications: Used as a container to heat metals or other substances may be melted or subjected to very high temperatures Performance Specifications: Must be able to contain elements,	
	compounds, metals, organic compounds or other substances to be melted or subjected to very high temperatures to determine mass relationship in a chemical reaction	
8	 Design Specifications: 1. Features a high/tall form cylindrical crucible 2. Capacity : 30 mL 3. Material : Porcelain, with the following dimensions: a) Height : 43-50 mm b) Base diameter: 24-26 mm c) Top diameter: 33-40 mm 4. Glazed inside and out, except outside bottom and rim. 	
	 5. With crucible cover completely glazed except for rim. 6. Must be able to stand solidly flat/is stable when placed on a level surface 7. Must be free from breakage, cracks, chipped rims and and sharp edges, surface irregularities and all other defects not stated herein 8. Comes with a brand printed permanently in the comparmentalized sturdy box 	
Dish, Evaporating, 75 mL	 9. Must be brand new 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	
9	 Design Specifications: 1. Features a deep form, broad, and wider at the top, with round bottom 2. Material : Porcelain, with the following dimensions: a) Diameter : 80-82 mm 	
	 b) Height/depth : 30-35 mm high 3. Capacity: 75 mL 4. With pouring lip/spout 5. Must be free from breakage, cracks, chipped rims and sharp edges, other surfaceirregularities and other defects not stated 	
	herein. 6.Must be able to contain the salt solution for an experiment on	

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			evaporation		
			7. Must be free from breakage, cracks, scratches, chipped rims,		
			sharp edges, surface irregularities including all other defects not		
			stated herein.		
			8. Each dish is individually packed,wrapped in paper, and packed in a sturdy box"		
			9. Comes with a brand printed permanently in the sturdy box		
			10. Must be brand new		
		Distillation set-up:	Functional Specifications: Used to condense the water vapor into		
		Condenser, Liebig-	its liquid state producing a distillate		
		type			
		• •	Performance Specifications: Must be able to condense the water		
			vapor into its liquid state producing a distillate, used in		
			distillation, as one of the simple separation techniques		
			Design Specifications:		
			1. Features two concentric straight glass tubes, the inner one		
			being longer and protruding at both extremities, surrounded by a water jacket with sealed inner tube and outer tube of an inner		
			straight tube surrounded by an outer jacket tube, the cool water		
			flows through the outer jacket to condense the vapor in the inner		
			tube, having a better cooling performance than air condenser.		
			2. Material : Transparent, smooth, clear, bubble-free borosilicate		
			glass, with the following dimensions:"		
			a) Tubulation OD: 9-15 mm		
			b)Jacket OD : 40- 43 mm		
			c)Jacket length : 300-301 mm		
			d)Over-all Length: 458-460 mm 3. With the following permanent inscriptions and numbers		
			permanently		
			enamelled onto the glass:		
			a) Manufacturer's name or trademark		
			b) Ground cone and socket joint: 29/32		
			4. With sealed inner tube		
			5. With Standard Taper Outer and Inner Joints permanently		
			enamelled		
			onto the glass the glass 5. With a drip tip at the bottom		
			6. Accessories:		
			a) One (1) pc rubber stopper that will fit upper (inlet) tube		
	10		i) Number of rubber stopper : #3		
	10		ii) Number of hole : One (1) hole		
			iii)Diameter of hole: 5.0-5.5 mm		
			iv) Hardness : 40-45 Duro		
			b) Rubber tube		
			Material of rubber Hose : Non-tacky, Latex rubber tube with the following dimensions:		
			with the following dimensions.		
			i) Inner diameter : Ø 8.0-8.5 mm		
			ii) Outer diameter : Ø 12.0-12.5 mm		
			iii) Length: 3000-3005 mm long		
			iv) Color of rubber tube : Amber		
			7. The glass is wrapped in bubble wrap, enclosed in a polystyrene		
			and packed in a sturdy box while the rubber stopper /tube is		
			placed in a resealable plastic bag. 8. Must be free from breakage, cracks, chipped rims and sharp		
			edges, striae, surface irregularities and all other defects not		
			stated herein		
			9. Must be able to produce a distillate during experiment on		
			Distillation using this item as part of the whole set		
			10. Must have User's Manual in Englis on the installation, use		
			and care, proper storage with repair and maintenance		
			11. With Activity Sheets/Teacher's Manual in English		
			12. For numbers #10 to 11; the technical specifications (a-e) must		
			be followed: a) For Contents List of materials, In Table form		
			b) For User's Manual, Instruction Sheets/Assembly Guides, In		
			sentences format "		
			i) With sentences grammatically correct and		
			ii) With correct spelling and terminologies, punctuations		
			and others		
			c) In original print, not photocopied "		
			d) In colored pictures, drawings/illustrations		
			e) in 0.3 mm minimum thickness plastic laminated keycard	<u> </u>	l .

				-	
		Distillation set-up: Distilling Flask, borosilicate, 250ml,	 that shall contain the actual colored picture of the model including the name: labeled with the required parts with details as follows: Paper Size : A4 size , 80 gsm Font : Times New Roman Font size : 12 Margins on all sides with 2 point width border line Margins on all sides with 2 point width shall point to the specific part being labeled Must be free from breakage, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein Must have a brand enamelled permanently onto the glass Must be brand new Functional Specifications: Used to hold/ contain the liquid to be distilled in distillation, as one of the simple separation the liquid to be distilled in distillation, as one of the simple separation		
	11		 Inplied to be distincted in distinution, us one of the simple separation technique Design Specifications: Features a long neck, a side arm that facilitates condensation, and a round bottom for uniform heating. Material : Clear, transparent, bubble-free borosilicate glass with a beaded rim with the following dimensions: Flask Height : 240-250 mm Side Arm Length: 129-130 mm Side arm : 76 to 78 mm below the top of the neck With the following permanent inscriptions and numbers permanently enamelled onto the glass: Capacity: 250 mL Manufacturer's name or trademark With permanent large white marking spot Supplied with an accessory a) rubber stopper that fits the mouth of the distilling flask Hardness: 40-45 Duro Number of hole: 5-5.5 mm Wrapped in bubble wrap, enclosed in a polystyrene and packed in a padded sturdy box Must be free from breakage, cracks, chipped rims and sharp edges, striae, surface irregularities and all other defects not stated herein 		
-		Double burette	 7. Must be able to produce a distillate during an experiment on Distillation using this item as a part of the distillation setup 8. Must have a brand enamelled permanently onto the glass 9. Must be brand new Functional Specifications: Used to hold and secure two burettes on a stand, so that each burette is fixed and more 		
	12		 convenient for the experiment. Performance Specifications: Must be used to hold and secure two burettes simultaneously on a stand, so that the burettes are fixed and more convenient to perform acid-base titration experiment to determine concentration of solutions. Design Specifications: Features a double Y-shaped or butterfly-shaped items which have spring action clamps. Material of body: Die cast aluminum with chemical resistant white enamel finish,with the following dimensions: Length range : 245-254 mm Width range : 120-127 mm Mounting hole diameter (Φ): 15-36 mm Color of body : White enamel Material of sleeves/jaws/grips : Vinyl or rubber for excellent grip Color of sleeves/jaws/grips : 85 mm (min) 		
			6. With 4 spring action clamps, 2 on each opening7. With two separate adjusting knobs or squeeze clamping mechanism		

			[
		 8. Color of adjusting knobs : Colored 9. Mounts directly to standard support rod with built in hook connector. 10. The dual metal burette clamp supports burettes from 10-100 		
		mL (10-100 cc). 11. They can be attached to support stand rods from16 mm to		
		 17 mm diameter 12. Must be free from breakage, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein. 		
		13. Comes with a brand marked permanently onto the body/box14. Must be brand new		
	Electrolysis Apparatus, student- type (Brownlee)	Functional Specifications: Used to demonstrate and describe the decomposition reactions at the electrodes during the electrolysis of water, producing 2:1 ratio of hydrogen & oxygen gases respectively, by passing DC current through water.		
		 Performance Specifications: Must be able to demonstrate and describe the decomposition reactions at the electrodes during the electrolysis of water, producing 2:1 ratio of hydrogen & oxygen gases respectively, by passing DC current through water. Positive results occur: a) When an ember in a stick is introduced onto the test tube with hydrogen gas, it pops. b) If the gas is oxygen, the ember must glow more 		
		Design Specifications: 1. Shape of Jar : Cylindrical container with a flat bottom, with a wide mouth and a small turned-out lip for pouring 2. Material of jar: Clear, transparent, smooth, and bubble-free borosilicate glass, with the following dimensions: a) Diameter : 114-130 mm		
		 b) Height : 127-160 mm 3. Capacity: 1000 mL 4. Comes with two (2) electrodes a) Material of two electrodes: Platinum b) Submission of the original copy of the Test certificate/s issued by the testing unit, like DOST material testing facilities or at any DOST-accredited testing institution attesting that the material of 		
13		 the electrodes, is platinum, to validate the conformity of the material to the technical specifications. A representative of the Procuring Entity should be present during preparation and submission of the material test specimens to testing facility. All expenses for the said test shall be shouldered by the Supplier. 5. Comes with an acid-proof insulating support to hold the two binding posts (one red, one black) 6. Holder of two test tubes : Two (2) spring clips 		
		 7. With two (2) reusable test tubes with graduations a) rimless b) graduated from its bottom to top. Zero starts at bottom and 25- 27 mL on top/mouth of test tube 		
		c) Material of test tubes : Borosilicate , clear, smooth, transparent and bubble-free reusable glass, free from breakage, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein, with the		
		following dimensions: c1) Diameter: 18 mm c2) Length : 150-151 mm long c3) Capacity : 25-27 mL		
		 d) With heavy uniform wall thickness, excellent heat resistance, round bottom glass e) With permanent graduation lines of approx. volume and inscriptions in high contrast fine, clean, continuous and of 		
		uniform width,and in colored enamel. f) With Certification from the manufacturer that the test tubes are reusable and not disposable 8. Comes with power source: 220 V -240 V AC input)/ (0-12 V)		
		DC output, and with switch selector 9. Comes with 9 V battery with one (1) battery snap 10. Comes with two (2) connecting wires (1 red, 1 black)		
		a) Length : 304-305 mm b) Type of wire : Stranded c) Gauge no. : 20 - can be seen printed on the insulation of		

 d) Concess with a allystor clip soldered on one end of the view with binding soldered on the other end of each with [1] event with a binding of the soldered on the other end of each with [1] event with a binding of the soldered on the other end of each with [1] event with a binding of the soldered on the other end of each with [1] event with a binding of the soldered on the other end of each with [1] event with a binding of the soldered on the other end of each with [1] event with a binding of the soldered on the sold sold the sold		
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 d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting g. Storage and safekeeping (include cleaning) of the equipment II. Training Video details: a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive. 		
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II. Training Video details: a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive.		
a. Shall be in MP4 format.b. Shall be saved in a USB 3.0 Flash Drive.		
b. Shall be saved in a USB 3.0 Flash Drive.		

		d. Shall have a readable subtitle (font style & size: Arial, 22		
		Bold) in English that is grammatically error-free and with		
		correct spelling and punctuation marks and in sync with a		
		voiceover/narration. There is an ON/OFF option for		
		subtitle.		
		e. Shall comply an aspect ratio of 4:3.		
		f. Shall have a cover video pane containing the equipment		
		name and a video pane for each video content.		
		g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement		
		(video contents).		
		20. Placed in bubble wrap, enclosed in polystyrene and comes		
		complete with a padded box with storage slots for each		
		item to help prevent glass breakage.		
		21. Must be free from breakage, cracks, chipped rims and sharp		
		edges surface irregularities and other defects not stated		
		herein		
		22. Comes with a brand etched/enamelled permanently onto		
		the glass		
		23. Must be brand new		
	Flask, Erlenmeyer,	Functional Specifications: Used to :		
	borosilicate, narrow-	a) contain/hold a small chemical reaction,		
	mouth, 250 mL	b) mix solids and liquids,		
		c)heat substances over a Bunsen/alcohol burner's flame up to		
		over 100 °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 100°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. Features a conical body, a cylindrical short neck , narrow		
		mouth, with sloping sides, beaded rim, and with a flat		
		bottom		
		2. Material : Clear, and transparent bubble-free, smooth,		
		borosilicate, glass with the following dimensions:		
		a)Outside diameter: 80-82 mm b)Height: 130-132 mm		
		c) Thickness: 1.5 to 2.0mm		
		b) Neck inside diameter range : 28 to 30 mm		
		3. With uniform wall thickness		
14		4. With narrow mouth, heavy duty beaded rim, graduated		
		5. With easy pour spout		
		6. With permanent durable white enamel graduations of		
		approximate volumes, large white block letters, numbers and		
		easy to read inscriptions enamelled onto the		
		glass, which includes the following:		
		a) Manufacturer's name or trademark		
		b) Capacity: 250 mL		
		c) With large white marking spot		
		d) With single graduated metric scale d1) Graduation range : 50 -200 mL		
		d2) Graduation interval: 25 mL		
		d3) Graduation starts at: 50 mL in 25 mL increments		
		e) Tolerance: ±6% and other inscriptions enamelled onto the		
		glass		
		7. Wrapped in paper and individually packed in a		
		compartmentalized box		
		8. Must be free from breakage, cracks, scratches, chipped rims,		
		sharp edges, striae, surface irregularities including all other		
		defects not stated herein		
		9. Must be able to withstand heating of water up to 150 deg C		
		10. Placed in bubble wrap and packed in a sturdy box to		
		help prevent glass breakage. 11. Comes with a brand enamelled permanently onto the glass		
		12. Must have a brand printed permanently on the glass		
		13. Must be brand new		
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	Funnel, borosilicate,	Functional Specifications: Used to direct the smooth flow of the	
	fluted	liquid or fine-grained substances into another container tp prevent spills	
		spino -	
		Performance Specifications: Must be able to direct the smooth	
		flow of the liquid or fine-grained substances into another	
		container to prevent spills	
		Design Specifications:	
		1.Type : 60 ° angle, Fluted short stem funnel	
		2. Shape: A wide, inverted conical top with narrow short circular	
		tube at the bottom, with depressed inside flutings in 60° angle	
		3. Material: Borosilicate, clear, transparent, bubble-free glass, with the following dimensions:	
1.5		a) Top outside diameter: 75-76 mm	
15		b) Stem outer diameter : 8-8.5 mm	
		c) Stem length : 75-76 mm	
		d) Total Height : 139-140 mm	
		4. With heavy beaded rim/edge and heavy uniform wall for strength.	
		5. With slanted fire polished tip, filter angle (angled 60°) and	
		depressed inside fluting help reduce filtering time "	
		6. Wrapped in paper, enclosed in bubble wrap, and individually	
		packed in a sturdy box 7. Must be free from breakage, cracks, scratches, chipped rims,	
		sharp edges, striae, surface irregularities including all other	
		defects not stated herein	
		8. Comes with a brand and 60° embossed permanently onto the	
		glass 9. Must be brand new	
	Glass Tubing, Ø 6	Functional Specifications: Used to contain/hold/mix liquids or	
	mm x Ø 4 mm x	gases during chemical reactions and to connect other pieces of	
	1500 mm long	equipment/glasswares to a gas or liquid assembly	
		Performance Specifications: Must be able to:	
		a) be bent to onnect other pieces of equipment/glasswares to a gas	
		or liquid assembly like in the activity "Flowing Up" and connect	
		Florence flask to the Liebig condenser as a substitute for distilling	
		flask for Distillation set up	
		b) contain/hold/mix liquids or gases during chemical reactions, to relate the rate of gas effusion with molar mass and demonstrate	
		Graham's law of effusion in an experiment where a white ring	
		mass is observed	
16		Desire Onesi Cestienes	
16		Design Specifications: 1. Shape : Long slender hollow glass	
		2. Material : Soda lime, clear, transparent, bubble-free glass	
		tubing, with the following dimensions:	
		a) Outside diameter : 6.0-6.5 mm b) Wall thickness : 1.0-1.2 mm	
		c)Length: 1219-1500 mm	
		3. With fire polished ends	
		4. Individually wrapped in used newspaper, enclosed in a bubble	
		wrap, and packed in a sturdy box 5. Must be free from breakage, cracks, scratches, chipped rims,	
		sharp edges, striae, surface irregularities including all other	
		defects not stated herein	
		6. Comes with a brand printed permanently on its packaging	
	Manometer, Open U-	7. Must be brand new Functional Specifications: Used to indicate the difference in the	
	tube	heights of the manometric liquid to measure pressure	
		Performance Specifications: Must be able to indicate the	
		difference in the heights of the manometric liquid to measure pressure by getting the pressure difference	
		pressure by getting the pressure unicience	
17		Design Specifications:	
		1. Type : Differential pressure manometer	
		2. Shape : U-shaped glass tube partially filled with liquid, with no moving parts and requires no calibration	
		3. Material : Glass	
		4. With a 50-52 cm arm with funnel top on one arm and 4.5-5.5	
		cm bent (90°) with 15-16 mm rifted tip on another arm for easy	
		connection	

		5. U-tube is mounted on a board, fixed on a wooden stand for	
		vertical mounting using metal clips	
		a) Material of stand : Wood/en	
		b) Dimensions of back plate	
		i) Length : 540-542 mm ii) Width : 90-92 mm	
		6. A millimeter scale is fitted between the arms of the tube.	
		a) Scale having graduation range: 0-50 cm	
		b) Graduation increment: 1 mm, with 0 at the bottom	
		7. Accessories:	
		a) With latex tubing, glass wall 2 mm thickness, 7.5-8.0 mm	
		inner diameter.	
		i) Material of rubber tubing: Non-toxic non-tacky latex	
		rubber tubing for the laboratory activity.	
		ii)Length of rubber tube: 3000-3005 mm	
		8. Stand with glass tube placed in bubble wrap, enclosed in	
		bubble wrap and packed individually in a sturdy box	
		9. Accessories enclosed in resealable plastic bag	
		10. With User's Manual in English	
		11. With Assembly Guides and Activity Sheets	
		12. For numbers #10 and 11; they must be:	
		a) In Table form for List of materials, in A4 size, glossy paper,laminated	
		b) Insentences format for instruction sheets/assembly guides	
		i) With sentences grammatically correct and	
		i) With correct spelling and terminologies, punctuations	
		and others	
		c)Printed in original copy, not photocopied	
		d) In colored drawings/illustrations	
		e) in 0.3 minimum thickness plastic laminated keycard that	
		shall contain the actual colored picture of the model	
		including the name labeled with the required parts with	
		details as follows:	
		i) Paper Size : A4 size , 80 gsm	
		ii) Font : Times New Roman	
		iii) Font size : 12	
		iv) Margins on all sides with 2 point width border line	
		v) Line with arrow head of 1.25 point with width shall point	
		to the specific part being labeled 13. Must be free from breakage, cracks , chipped rims, sharp	
		edges, all surface irregularities and all other defects not stated	
		herein.	
		14. Individually packed in a sturdy box	
		15. Comes with a brand printed permanently onto the wooden	
		stand	
		16. Must be brand new	
	Mortar and Pestle,	Functional Specifications: Used to pulverize/mash/grind and to	
	porcelain, 150 mL.	mix 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	
10		1. Shape of mortar : Deep form, bowl shape, with wide mouth ,	
18		and with deeply molded, smooth rounded bottom	
		2. Material for mortar and pestle: Porcelain, with the following	
		dimensions:	
		a) Outside diameter : 130-132 mm	
		b) Height/Depth : 65-70 mm	
		3. Capacity: 150 mL	
		4. With pouring lip	
		5. With unglazed grinding surface (interior) and uniformly glazed exterior	
		B. Pestle:	
		6. Shape of pestle: Cylindrical with bulbous bottom, with the	
		following dimensions:	

<u> </u>		7. Material of pestle: A heavy bat-shaped porcelain	<u>г</u>	
		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 rims,		
		sharpedges, all surface irregularities and all other defects not		
		stated herein		
		11. Comes with a brand marked permanently on the body/box 12. Must be brand new		
	Osmosis Apparatus	Functional Specifications: Used to to show that water passes		
		through a semi-permeable membrane causing a rise in the level of		
		water in the thistle tube		
		Performance Specifications: Must be able to show that water		
		passes through a semi-permeable membrane causing a rise in the		
		level of water in the thistle tube, to describe/demonstrate the		
		effect of concentration on one of the colligative properties (osmotic pressure) of solutions		
		Design Specifications: 1. Features a a long shaft of tube with a reservoir and a funnel		
		like/flared rim section at the top and at the bottom. The shaft is		
		designed to allow insertion through a small hole present in a Y-		
		shaped support stand giving way for the tube to be inserted into a		
		container. 2. Comes as a complete set, which is composed of the following		
		items:		
		a) With one (1) pc battery jar = $600-605$ mL cap		
		b) With one (1) pc double thistle tube with brand name etched onto the glass		
		b1) Shape of double thistle tube: A long shaft of tube		
		thatends in a reservoir bulb with a funnel shaped/flared rim at		
		the top and bottom part b2) Material of double thistle tube and jar : Smooth, clear,		
		transparent free from bubbles, striae, or other imperfections		
		borosilicate glass, with the following dimensions:		
		Length of double thistle tube : 405-410 mm Diameter of each thistle tube (top and bottom): 29-30		
		mm		
		Diameter of glass tube: 14-15 mm		
19		c) With one (1) pc stable Y-shaped metal support stand, safe to use, and absence/free of all sharp edges, all surface		
		imperfections/irregularities and all other defects not stated herein		
		c1) Shape of metal support stand: Y-shaped support stand		
		c2) Material of support stand: Aluminum c3) With a black plastic adjusting screw at the rear end with		
		the red adjusting screw near the center of the Y-support stand		
		used to adjust the opening of the stand when the double thistle		
		tube is mounted vertically in place d) Comes with ten (10) pc semi-permeable membrane		
		3. Each item is individually placed in a snap fit organizer shaped		
		into each item and packed as a complete set in a padded sturdy		
		polystyrene box 4. With Instruction Manual and Activity Sheets		
		5. With a well written User's Manual (Assembly guides) and		
		Activity Sheets in American English, with technical specifications		
		details(a-e) as follows: a) original print		
		b) A4 size copy paper (80 gsm)		
		c) With colored pictures, drawings/illustrations		
		d)Margin of 1/2 inch on all sides: with 2 point width border		
		line e) Lay out orientation : Portrait		
		f) Title: OSMOSIS APPARATUS shall be placed on the top		
		center i) Font style: Times New Roman		
		ii) Font size: 36		
		iii) UPPERCASE		
		iv) BOLD g) Labels		
		i) Font style : Times New Roman		
		ii)Font size: 14.		
		iii) First letter of the label is capitalized	<u> </u>	

iv) Line with arrowhead of 1.25 width shall point to the	
specific part being labeled	
h) Sentences must be grammatically correct and with correct	
spelling, pucntuations and terminologies i) with colored illustrations and drawings	
j) with 0.3 mm minimum thickness plastic laminated in thick	
plastic	
6. Must be free from rust and dirt, breakage, cracks, chipped	
rims, sharp edges, other surface irregularities and all other defects	
not stated herein	
7. Placed in bubble wrap, with storage slots for each item	
enclosed in polystyrene and packed as a set in a padded box to	
help prevent glass breakage. 8. Comes with a brand permanently etched onto the double thistle	
tube and in the box	
9. Must be brand new	
Reagent Bottle, Functional Specifications: Used to contain/store and to provide	
narrow-mouth, UV protection of prepared light sensitive solutions/substances to	
amber, borosilicate, prevent change/alteration in the composition of their contents	
250 mL Performance Specifications: Must be able to contains/store and to	
provide UV protection for the prepared light sensitive	
solutions/substances to prevent change/alteration in the composition of their contents.	
Design Specifications:	
1. Shape : Cylindrical narrow-mouth bottle	
2. Material : Borosilicate, smooth, bubble-free glass with the	
following dimensions:	
a) Bottle diameter range: 66-72 mm	
b) Neck I.D. range : 23-28 mm c) Over-all height: 130 to 150 mm	
3. Color: Amber	
4. With approximate volumes, capacity, and other markings are in	
20 permanent white enamel which resists aggressive washing	
solutions	
a) Manufacturer's name or trademark	
b) 250 mL	
c) white marking field/spot in permanent white enamel 5. With octagonal plastic stopper	
Socket size: 19/26 that fits the mouth well	
6. With a white marking field/spot in permanent white enamel	
a) logo/brand name	
b) 250 mL	
7.Wrapped in paper, enclosed in bubble wrap and packed	
individually in a padded sturdy box	
8. Must be free from breakage, cracks, chipped rims, sharp edges, striae, all surface irregularities including all other defects not	
striac, an surface integritatives including an other detects not	
9. Comes with a brand enamelled permanently onto the glass	
10. Must be brand new	
Reagent Bottle, wide- Functional Specifications: Used to hold/ contain/store prepared	
mouth, transparent, solutions/ substances	
borosilicate, 250 mL Performance Specifications: Must be able to hold/contain/store	
prepared solutions/substances	
Design Specifications:	
1. Shape: Cylindrical wide-mouth bottle	
2. Material: Borosilicate, clear, smooth, transparent and bubble-	
free glass, with the following dimensions: a) Bottle diameter : 69 mm to 73 mm	
b) Mouth diameter: 34 mm to 44 mm	
c) Height : 129 mm to 142 mm	
3. Features no-drip pour lip	
4. With ground-in glass stopper	
5. With air tight seal	
6. With approximate volumes, capacity, and other markings are in	
permanent white enamel/stain which resists aggressive washing solutions	
a) Manufacturer's name or trademark	
b) 250 mL	
c) white marking field/spot in permanent white enamel	
7. Wrapped in paper, enclosed in bubble wrap and packed	
individually in a sturdy box	

	8. Must be free from breakage, cracks , chipped rims, sharp edges, all surface irregularities and all other defects not stated herein9. Comes with a brand enamelled onto the glass10. Must be brand new	
Rubber Stopper # 0 (for Ø 16mm test tube)	Functional Specifications: Used to seal the openings of 16 mm diameter test tubes and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance.to prevent leaks, hazards and contamination	
	Performance Specifications: Must be able to seal the openings of $16 \ge 150$ mm test tubes and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance.to prevent leaks, hazards and contamination	
22	 Design Specifications: 1. Shape: Cylindrical with a tapered bottom end 2. Material : Rubber compound with the following dimensions: a) Height : 25-25.5 mm b) Top Ø : 17-17.50 mm c) Bottom Ø : 13-13.5 mm 	
	 a. Hardness : 40-45 Duro b. Packed in resealable plastic bag c. With no. 6 embossed onto the rubber stopper c. Must be free from cracks, sharp edges, and all other surface imperfections including all other defects not stated herein c. Comes with a brand marked permanently in the bag a. Must be brand new 	
Spoon-spatula, porcelain and glazed	Functional Specifications: Used to hold/contain and transfer solids and liquids from one container to the other Performance Specifications: Must be able to hold/contain and	
23	 transfers solids and liquids from one container to the other Design Specifications: 1. Features a white, broad, flat, flexible blade (spatula) on one end and a spoon on the other end. 2. Material : Uniformly glazed smooth finish porcelain a) Capacity: 0.3 mL 	
	 b) Over all Length : 121-125 mm 3. Must be free from breakage, cracks, chipped edges and all other defects not stated herein 4. Wrapped in paper, enclosed in bubble wrap and packed in a sturdy box. 5. Must be free from cracks, sharp edges, and all other surface imperfections including all other defects not stated herein. 6. Comes with a brand marked permanently in the box 	
Stirring Rod, Ø 6 mm	7. Must be brand new	
x 250 mm long	Performance Specifications: Must be able to mix liquids and solids well to speed up the dissolving process and increases the rate of reaction	
24	 Design Specifications: 1. Features a long, slender cylindrical solid glass, with the same thickness and slightly longer than a drinking straw and with rounded fire polished ends. 2. Materia I: Clear, transparent bubble-free stir stick solid borosilicate glass with the following dimensions: a) Diameter(Ø) : 6-6.3 mm 	
	 b) Length: 250-254 mm long 3. With rounded and fire polished ends 4. Wrapped in paper, enclosed in bubble wrap and packed in a sturdy box 5. Must be free from breakage, cracks, chipped unpolished ends, 	
	all other surface imperfections icluding all other defects not stated herein 6. Comes with a brand marked permanently in the box 7. Must be brand new	
25 Test tube brush	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 bruch to make complete contact with walls, corners and better	
		brush to make complete contact with walls, corners and bottom. Design Specifications:	
		 Features a radial tufted tip white nylon bristles and brush head lined against a rather sturdy wire handle with a looped end to make complete contact with walls, corners and bottom to clean test tubes and other small sized glasswares . Material of bristles : Medium stiff nylon with the following dimensions: a) Diameter of bristle section: 18-19 mm b) Length of bristle section : 82-84 mm 	
		 c) Over-all length: 228 -229 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle : Common loop twisted wire 	
		5. With circular wire loop for hanging6. Packed in a reseable plastic bag7. Must be free from rust, sharp edges, all other surface	
		irregularities including all other defects not stated herein 8. Comes with a brand marked permanently in the box 9. Must be brand new	
	Test Tube, borosilicate, Ø 16 mm x 150 mm long	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 quantitiy of substances up to more than 100°C over a Bunsen burner's flame	
		 Design Specifications: 1. Features a finger-like length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded 'U' shaped bottom 2. Material of test tube: Borosilicate, clear, transparent and 	
26		bubble-free, reusable glass, with rim, with the following dimensions:a) Outside Diameter: 15.8-16.0 mmb) Thickness: 1.3 -1.4 mm	
		 c) Length: 150-152 mm d) Comes with a certification from the manufacturer that the test tube is reusable and not disposable 3. Capacity: 20 mL 4. With heavy uniform wall thickness, excellent heat resistance 	
		 5. With large, white enamel marking spot 6. Test tubes must be reusable (not disposable) 7. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box 	
		 8. Must be free from breakage, cracks, chipped rims, surface irregularities and all other defects not stated herein 9. Comes with a brand enamelled permanently in the glass 10. Must be brand new 	
	Tong, Crucible	Functional Specifications: Used to lift and hold crucibles,remove the lids from crucibles, transfer evaporating dishes or picking small objects out of a reaction container	
		Performance Specifications: Must be able to lift and hold crucibles, remove the lids from crucibles, transfer evaporating dishes or picking small objects out of a reaction container.	
27		Design Specifications: 1. Features a scissor-like and a long bent neck tongs, with two anti-skid pincers or pieces of metals that concave together, which allow the users to grasp a hot crucible, flasks, evaporating dishes, or even small beakers 2. Material - Staipless steel durable stable rust and heat	
		 2. Material : Stainless steel,durable, stable, rust and heat resistant a) Color: Silver b) Finish: Smooth c) Overall Length: 228 -229 mm 	
		3. With riveted joints 4. With serrated tips.	

		5. Enclosed in resealable bag and packed in a sturdy box6. Must be free from rust, dirt, cracks, chipped and sharp edges	
		and surface irregularities including all other defects not stated	
		herein	
		 Comes with a brand marked permanently in a box Must be brand new 	
	Vial, screw-neck, 25	Functional Specifications: Used to hold/contain/store/mix small	
	ml. (with screw-type plastic cap)	quantities of samples/ solutions/substances up to 25 mL	
		Performance Specifications: Must be able to hold/contain/store/mix small quantities of samples up to 25 mL	
		Design Specifications: 1. Type : Threaded Screw cap	
		2. Shape : Bottle-like shape with a threaded neck, solid plastic closure and with a flat bottom.	
		3. Material : Borosilicate clear, transparent, and bubble-free glass, with the following dimensions:	
		a) Outside Diameter : 25-30 mm b) Length: 60-80 mm	
		4. With screw- type solid plastic cap	
28		5. Shape of neck : Cylindrical, round	
		6. Neck finish : Continuous thread 7. Cap Color: Colored	
		8. Cap Attached: No	
		9. Cap Material : Plastic	
		10. Closure style : Solid top, screw thread cap	
		11. Material: Plastic a)Diameter : 25-30 mm	
		b) Length: 60-80 mm	
		12. Capacity: 25 mL	
		13. Packed individually in a compartmentalized/partitioned box 14. Must be free from breakage, cracks, chipped and sharp edges	
		and surface irregularities including all other defects not stated	
		herein	
		15. Comes with a brand marked permanently on the box16. Must be brand new	
	Vial, screw-neck, 50	Functional Specifications: Used to hold/contain/store/mix small	
	mL. (with screw-type plastic cap)	quantities of samples/ solutions/substances up to 50 mL	
	plastic capj	Performance Specifications: Must be able to	
		hold/contain/store/mix samples/solutions/substances up to 50	
		mL	
		Design Specifications:	
		1. Type : Threaded Screw cap	
		2. Features a bottle-like shape with a threaded neck, screw cap	
		plastic closure and with a flat bottom 3. Material : Borosilicate,clear, transparent, and bubble-free glass	
		with the following dimensions:	
		a) Outside Diameter : 25-30 mm	
29		b) Length : 100-108 mm 4. Capacity: 50 mL	
		5. Shape of neck : Cylindrical, round	
		6. Neck finish : Continuous thread	
		7. Cap Color :Colored 8. Cap Attached: No	
		9. Cap Material : Plastic	
		10. Closure style : Solid top, screw thread cap	
		11. Material : Plastic	
		a)Diameter : 24-26 mm 11. Packed individually in a compartmentalized box	
		11. Facked multidually in a compartmentalized box	
		12. Must be free from breakage, cracks, chipped and sharp edges	
		12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated	
		12. Must be free from breakage, cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein	
		12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein13. Comes with a brand marked permanently on the box14. Must be brand new	
	Watch Glass, Ø 90	 12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein 13. Comes with a brand marked permanently on the box 14. Must be brand new Functional Specifications: Used to: 	
	Watch Glass, Ø 90 mm	 12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein 13. Comes with a brand marked permanently on the box 14. Must be brand new Functional Specifications: Used to: a) cover glasswares like beakers 	
30		 12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein 13. Comes with a brand marked permanently on the box 14. Must be brand new Functional Specifications: Used to: 	
30		 12. Must be free from breakage , cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein 13. Comes with a brand marked permanently on the box 14. Must be brand new Functional Specifications: Used to: a) cover glasswares like beakers b) evaporates solvents in a sample and 	

			b) evaporate solvents in a sample andc) hold/contain liquids and solids prior to heating.	
			Design Specifications:	
			1.Shape : Circular concave	
			2. Material : Borosilicate, clear, transparent, and bubble-free glass with the following dimensions:	
			a) Diameter : 90-91 mm	
			b) Thickness range : 1.5 mm to 2 mm	
			 Fire-polished rims/edges Individually wrapped in used newspaper, enclosed in a bubble 	
			wrap, and packed in a sturdy box	
			5. Must have fire polished edges/rims, be free from breakage,	
			cracks, chipped and sharp edges, surface irregularities including all other defects not stated herein	
			6. Comes with a brand marked permanently in the box	
	SCIEN	ICF DEVICES INSTRUM	7. Must be brand new MENTS, AND MEASURING TOOLS - MATTER	
	SCIEN	Balance, Toploading,	Functional Specifications: Used to measure an object's mass up to	
		Electronic	500 g capacity accurate up to 0.01 g readability	
			Performance Specifications: Must be able to measure an object's	
			mass up to 500 g capacity accurate up to 0.01 g readability to	
			determine mass relationship in a chemical reaction	
			Design Specifications:	
			1. Type : Digital	
			 Shape of pan : Rectangular Material of pan : Stainless steel 	
			4. Removable high strength stainless steel weighing platform	
			5. Load/Capacity: 500 g	
			6. Readability/Accuracy : 0.01 g 7. Repeatablity : 0.01 g	
			8. Comes with 500 g span calibration mass	
			9. Power Supply: 220-240V/ 50Hz	
			10. With large Liquid crystal display (LCD) with backlight 11. With multiple weighing units and overload protection	
			12. With automatic calibration	
			13. With standard RS 232 interface14. Parts counting and percentage weighing	
			15. With accessories, such as:	
			a) the power cord,	
			b) AC Adapter and c) 4 AA batteries	
			16. With Statement of Accuracy/ Certification of Accuracy latest	
6	1		issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin	
			17. Comes with a training video that shows the actual equipment	
			submitted and approved during the sample evaluation in a USB	
			and shall contain the following: I. Training Video Contents:	
			a. Name of the equipment	
			b. Parts of the equipment c. Instruction on how to use the equipment	
			d. Sample Experiment/Activity using the equipment	
			e. Maintenance of the equipment	
			f. Troubleshooting g. Storage and safekeeping (include cleaning) of the	
			equipment	
			II. Training Video details: a. Shall be in MP4 format.	
			b. Shall be saved in a USB 3.0 Flash Drive.	
			c. Shall have a High-Definition resolution of at least 1080p.	
			d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with	
			correct spelling and punctuation marks and in sync with a	
			voiceover/narration. There is an ON/OFF option for subtitle.	
			e. Shall comply an aspect ratio of 4:3.	
			f. Shall have a cover video pane containing the equipment	
			name and a video pane for each video content. g. The video, voiceover (audio), and subtitle shall be in sync.	
			h. The training video shall cover all the above requirement	
			(video contents).	

			18. Must be rust-free, free from dirt and breakage, cracks,		
			chipped and sharp edges, other surface irregularities including all		
			other defects not stated herein		
			19. Comes with a brand marked permanently onto the item		
_			20. Must be brand new	├─── ├ ─	
		Balance, Triple	Functional Specifications: To measure mass of solids, liquids and		
		Beam, with tare,	gases accurate up to 0.1 g readability		
		2610-gram	Performance Specifications: Must be able to measure mass of		
			solids and liquids accurate up to 0.1 g readability to determine		
			mass relationship in a chemical reaction		
			Design Specifications:		
			1. Features three graduated-tier beam with pan		
			2. Display : Easy to-read deep-notched, tiered beams and dial		
			plates		
			3. Material of weighing pan: Stainless Steel		
			4. Shape of weighing pan: Circular 5. Pan size diameter : 150-151 mm		
			6. Material of base : Cast metal with corrosion resistant smooth		
			finish		
			7. With spring, loaded zero-adjust compensator		
			8. With self-aligning agate bearings, precision ground steel knife		
			edges		
			9. With magnetic dampening to minimize oscillation and speed		
			weighing		
			10. With adjustment knob for taring		
			11. With iron stand assembly (stand rod and C clamp) for		
			fastening on the table and suspending the triple beam balance on air for specific gravity determination		
			12. Maximum Capacity : 2610 grams		
			13. Accuracy : 0.10 gram readability		
			14. With three beam graduations:		
			a) Rear beam : 100 g X 10 g		
			b) Center beam : 500 g X 100 g		
			c) Front beam : 10 g X 0.1 g		
			15. Equipped with three separate masses/counterweights:		
			a) 2 pc 1,000 grams counter weights		
	2		b) 1-pc 500 grams counter weight16. With Statement of Accuracy (Certificate of Traceability)		
	4		indicating accuracy traceable to standards of the country of origin		
			17. With English User's manual that contains Operation guide and		
			also indicates formula and procedure in determining specific		
			gravity and taring.		
			18. Comes with a training video that shows the actual equipment		
			submitted and approved during the sample evaluation in a USB		
			and shall contain the following:		
			I. Training Video Contents:		
			a. Name of the equipment b. Parts of the equipment		
			c. Instruction on how to use the equipment		
			d. Sample Experiment/Activity using the equipment		
			e. Maintenance of the equipment		
			f. Troubleshooting		
			g. Storage and safekeeping (include cleaning) of the		
			equipment		
			II. Training Video details:		
			a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive.		
			c. Shall have a High-Definition resolution of at least 1080p.		
			d. Shall have a readable subtitle (font style & size: Arial, 22		
			Bold) in English that is grammatically error-free and with		
			correct spelling and punctuation marks and in sync with a		
			voiceover/narration. There is an ON/OFF option for		
			subtitle.		
			e. Shall comply an aspect ratio of 4:3.		
			f. Shall have a cover video pane containing the equipment		
			name and a video pane for each video content.		
			g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement		
			(video contents).		
			19. Must be free from rust and dirt, breakage, cracks, chipped and		
			sharp edges, other surface irregularities including all other defects		
			not stated herein		

			r	
		20. Enclosed in a polystyrene and packed in a sturdy box 21. Comes with a brand marked permanently onto the item and		
		21. Comes with a brand marked permanently onto the term and 22. Must be brand new		
	Calorimeter	Functional Specifications: Used to measure heat effects or heat of		
		reactions		
		Performance Specifications:		
		a) Must be able to measure the heat effects or heat of reactions, the heat of neutralization of an acid and heat of fusion in the		
		laboratory		
		b) to distinguish between exothermic and endothermic processes		
		Design Specifications:		
		1. Features a double-walled cylindrical double wall with air		
		insulation between two polished spun vessels		
		2. Material : Two polished spun aluminum vessels with the following dimensions:		
		A) Outer vessel size:		
		a) Height :100-140 mm		
		b) Diameter : 65-115 mm		
		B) Inner vessel size :		
		a) Height: 72-89 mm		
		b) Diameter : 61-77 mm 3. The two are separated by a molded polystyrene insulated		
		separator/insulating wall.		
		4. The outer vessel has a transparent plastic lid/molded Bakelite		
		cover, and with hole for thermometer		
		5. Supplied complete with stirrer, but without thermometer.		
		6. Accessories:		
		a) With a plastic insulator ring or fiber washer for insulating and supporting one vessel within the other, protects the		
		polystyrene insulation against damage and liquid spills.		
		b) Insulated Stirrer		
		c) A clear transparent molded cover or plastic lid with a filler		
		cap, with two holes (one hole is for the rubber stopper that holds		
		the thermometer and the other hole for the stirrer		
		d) Rubber stopper with one holee) With polystyrene/a fiber separator to insulate the inner		
3		vessel		
		f) Submission of the original copy of the Test certificate/s		
		issued by the testing unit, like DOST material testing facilities or		
		at any DOST-accredited testing institution attesting that the		
		material of the insulation of the calorimeter, is polystyrene, to validate the conformity of the material to the technical		
		specifications. A representative of the Procuring Entity should be		
		present during preparation and submission of the material test		
		specimens to testing facility. All expenses for the said test shall be		
		shouldered by the Supplier.		
		7. With Instruction Manual in English that contains precise		
		instructions on how to conduct common calorimetry experiments. 8. With User's Manual on the use, care, maintenance, trouble		
		shooting and proper storage in English		
		9. With Activity Sheets/Teachers Manual in English		
		10. For numbers #7 to 9; technical specifications (a-e) must be		
		followed:		
		a) For Contents List of materials, In Table formb) For User's Manual, Instruction Sheets/Assembly Guides, In		
		sentences format		
		i) With sentences grammatically correct and		
		ii) With correct spelling and terminologies, punctuations and		
		others		
		c) In original print, not photocopied		
		d) In colored pictures, drawings/illustrationse) in 0.3 mm minimum thickness plastic laminated keycard		
		that shall contain the actual colored picture of the model		
		including the name: labeled with the required parts with details as		
		follows:		
		i) Paper Size : A4 size , 80 gsm		
		ii) Font : Times New Roman iii) Font size : 12		
		iv) Margins on all sides with 2 point width border line		
		v) Line with arrow head of 1.25 point with width shall point		
		to the specific part being labeled		

4 11. Must be free from runs and dirt, cracks, scratches, dented from, sharp edges, surface irregulatives including all other detects in 12. Comes with a mond printed permanently on the colorimeter 13. Must be from dates on the separation techniques for mixtures and compounds when the density difference tensors the particles and liquid is great, the particles and input is greater and the compounds when the density difference tensors be selected out to separate other fluids at lower G for some and hand to a selected out to separate other fluids at lower G for some and hand is great, the particles are large, and the liquid viscosity is low. Separate blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Separates blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Separates blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Separates blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Separates blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Set. Separates blood at 3300 rpm and can be alword down to separate other fluids at lower G for set. Set. Separates blood at 3300 rpm and the liquid viscosity is low. Separates blood set. Set. Set. Set. Set. Set. Set. Set. S					
4 12. Comes with a brand printic permanently on the calorimeter 13. Must be brand new 13. Comes with a brand printic permanently on the calorimeter 13. Must be brand new Centrifuge Punctional Specifications: Vised as one of the separation with the liquid viscosity is low. Separates blood at 3300 rpm and can be slowed down to separate other fluids at lower G forces such as unite specimens Performance Specifications: Must be able to separate mittures and compounds bosed in derays of pm and can be slowed down to separate other fluids at lower G forces such as write specimes and bloud is great, the particles are large, and the liquid viscosity is low. Separates blood at 3300 rpm and can be slowed down to separate other fluids at lower G forces such as write specimens Design Specifications: 1. Type : Fixed speed 2. Matrial: Nortusic plastic, with the following dimensions: a) Height : 326-330 mm c) Depth : 328-330 mm c) Dep			11. Must be free from rust and dirt, cracks, scratches, dented		
12. Comes with a brand printed permanently on the colorimeter 13. Muta be known one. Centrifuge Principal Specifications: Used as one of the separation techniques to mixtures and compounds when the density are long, and the liquid viscosity is low. Separates blood al 3300 rpm and can be slowed down to separate other fluids at lower G forces such as urine specimens. Must be able to expansite mixtures and liquid is great, the particles are large, and the liquid viscosity is low. Separates blood at 3300 rpm and can be slowed down to separate other fluids at lower G forces such as urine specimens Design Specifications: 1. Type : Fixed aped 1. Type : Fixed aped 2. Muterial: Non-toxic plustic, with the following dimensions: a) Height : 1204-200 nm 1. Optimized print is the association from the manufacturer of the non-toxicity of the material used 3. Color finish: Block 2. Color finish: Block 4. With 1.2 vol 10C maintenance free motor 3. Maximum and particle of works and part of a source of the lower of the second of the source of the source aligner of the second and the low source and the liquid viscosity of the material used 3. With 1.2 vol 10C maintenance free motor 8. Maximum volume : 1200 AL (15 mL x 9) 9. Fuse: :3 ampl 230 volts 10. Muterial maged: :3.300 rpm with fixed speed control, (blood, true: correct and aligned is specified and the source aligner correct and aligned is specified and the source aligner is the second of the roy prover aligning 13. With Autoof 30-minute timer with hell			rims, sharp edges, surface irregularities including all other defects		
4 13. Must be brand new? 14. Centrifuge Functional Specifications: Used as one of the separation techniques for mixtures and compound when the density difference between the puriticles and figuids is great, the particles of prime and can be slowed down to separate other fluids at lower G forces such as urine specimenas Performance Specifications: Must be able to acparate mixtures and compounds haved on density difference between the particles is low. Separate short at 3300 rpm and can be slowed down to separate other fluids at lower G forces such as urine specimens Design Specifications: 1. Type: Fluid Specifications: 1. Type: Fluid Specifications: 1. Type: Fluid Specification from the manufacturer of the non-trackity of the material used 1. Gott Type: Fluid Specification from the manufacturer of the non-trackity of the material used 1. With 12 work DC maintenance-free motor 3. With 12 work DC maintenance-free motor 3. Most the specification (the specification specification (the specification specification (the specification specification specification (the specification specification specification (the specification specification specification (the specification specification specification specification (the					
4 Functional Specifications: Used as one of the separation techniques for mixtures and loguid is great, the particles are large, and the fluid vascity is how. Separate shoul at 3000 process such as urine specimens Performance Specifications: Must be able to separate mixtures and compounds hased on density difference between the particles and hypotentials have on density difference between the particles and separate blood at 3000 rpm and can be abweed down to separate other fluids at lower G forces such as urine specimens Design Specifications: 1. Type : Fixed specifications: 0. Metricit Non toxic plastic, with the following dimensions: 0. Height '204-206 mm 0. Open					
4 techniques for mixtures and compounds when the density difference between the particles and liquid is great, the particles are large, and the liquid viacesity is low. Separate note hilds at lower G forces such as unite specimens. Full at lower G forces such as unite specimens. Kust be able to separate not the liquid viacesity is low. Separate block at 3000 rpm and can be slowed down to separate on the liquid viacesity is a low. Separates block at 3000 rpm and can be slowed down to separate on the liquid viacesity is low. Separates block at 3000 rpm and can be slowed down to separate on the fluid at lower G forces such as unite specimens. Design Specifications: Type: Fixed speed Merrial: Non-toxic plastic, with the following dimensions: Height: 128-330 nm Byreti 128-320 ndb Byreti 138-128-128 Byreti 138-128-128-128 Byreti 138-128-128-128					
4 4 4 4 4 4 4 4		Centrifuge			
4 Image: and the biguid viscosity is now. Separate moth rules at lower G forces such as urne specimens. Must be able to separate mixtures and compounds bused on density difference between the particles und liquid signed, the particles are large, and the biguid viscosity is how. Separates blood at 3300 rpm and can be slowed down to separate other fluids at lower G forces such as urne speciments Design Specifications: Image: Image			1 1 5		
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4 Image: Specification: Work build bui					
4 A performance Specifications: Must be able to separate mixtures and compounds based on density difference between the particles and larging discosing is separate other fluids at particles are large, and the figuid viscosing is separate other fluids at power 6 forces such as turine specimens. Design Specifications: Type: "Each append Material: Non-toxic plastic, with the following dimensions: Height: "264-266 mm With 1: 328-330 mm Color finaish: Black. Solor finaish: Black. Color finaish: Black. Color finaish: Black. Color finaish: Black. Solor finaish: Black.<td></td><td></td><td></td><td></td><td></td>					
4 4 4 4 5 7 4 4 4 4 1 <td< td=""><td></td><td></td><td>forces such as urine specimens</td><td></td><td></td></td<>			forces such as urine specimens		
4 4 4 4 5 7 4 4 4 4 1 <td< td=""><td></td><td></td><td>Performance Specifications: Must be able to concrete mixtures</td><td></td><td></td></td<>			Performance Specifications: Must be able to concrete mixtures		
4 4 4 4 4 1 1			1 1		
4 is low: Separates blood at 3300 rpm and can be slowed down to response other fluids at lower 6 forces such as urine specimens Design Specifications: 1. Type : Tixed speed 2. Matchiel Kon-toxic plastic, with the following dimensions: a) Height : 524-350 nm 0) With : 328-330 nm 0. Type : Tixed speed 3. Color finish: Black a. Matchiel Kon-toxic plastic, with the following dimensions: a) I eight : 12 49-350 nm 0. Color finish: Black 4. With Angled roors, 8-Place Centrifuge with Timer 5. With Lid safety shut off switch 6. Holds 3 mL to 15 m. lise tubes 7. With 12 volt DC maintenance-free motor 8. Maximum solume : 12 om L(15 mL x 8) 9. Fuse : 3 amp/ 250 volts 10. Maximum solume : 3.500 rpm with fixed speed control. (blood, urine, etc.) 11. Clear view port in lid for using tachometer 12. Suction - cupped feet to prevent slipping 13. Night-place tube timer with bell 14. With power cord 15. Power supply: 110/220 v, with auto-switching power adapter 16. Centrification : CE, UL, cUL approved 17. Anchudes the following: a) Eight 13 x 75 mm tube sleeves inserts c) Eight 13 x 75 mm tube sleeves inserts d) Eight 13 x 75 mm tuband bottom plastic centrifuge tubes with serve					
4 4 4 4 4 1 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
4 Jessign Specifications: Type : Fixed speed Meight : 328-330 mm Height : 328-330 mm Depth : 328-330 mm Depth : 328-330 mm Depth : 328-330 mm Cher Madd The match match manufacturer of the non-toxicity of the match m					
4 1. Type: / Fixed speed 2. Material: Non-toxic plastic, with the following dimensions: a) Height : 264-266 mm b) [Witht : 328-330 mm 0) Depth : 328-330 mm 0) Depth : 328-330 mm 0) Colf misht: Black 3. Color finish: Black 4 4. With Angled rotor, 8-Place Centrifuge with Timer 5. With Lds after shut-off switch 6. Holds 3 mL to 15 mL size tubes 7. With 12 volt DC maintenance-free motor 8. Maximum volume : 120 mL /15 mL x8 9. Prace : 3 amp/ 230 volts 10. Maximum speed : 3,000 pm with fixed speed control. (blood, turne, etc.) art in life for using tachometer 12. Staction-cupped feet to prevent slipping 13. With Auto-off 300 volts 14. With power cord 15. Prover supply: 110/220 v, with auto-switching power adapter 16. Certification : CE, UL, cUL approved 17. Includes the following: a) Eight 131 x 75 mm tube sleeces inserts c) Eight 13 x 75 mm round bottom plastic centrifuge tubes with screw cap 18. Placed in bubble wrap, enclosed in polystyrene and individually packed in sturdy box 19. With Operations Manual and Assembly Guide in English 20. With sample activity sheets in English 21. For cumertas list of materials, In Table form					
4 Advertial: Non-toxic plastic, with the following dimensions: a) Height : 264-266 mm b)Width :: 328-330 mm d) Certification from the manufacturer of the non-toxicity of the material used 3. Color finish: Black 4. With Angled rotor, 8-Place Centrifuge with Timer 5. With Lid safety shut-off switch 6. Holds 3 mL to 15 mL size tubers 7. With 12 volt DC maintenance-free motor 8. Maximum volume: 120 mL (15 mL s 8) 9. Puse : 3 amp/ 250 volts 10. Maximum system: 120 mL (15 mL s 8) 9. Puse : 3 amp/ 250 volts 11. Clear view port in lid for using tachometer 12. Suction-cupped feet to prevent slipping 13. With Auto-off 30 minute timer with bell 14. With power cord 15. Power supply: 110/220 v, with auto-switching power adapter 16. Certification : CE, UL, cUL approved 17. Includes the following: a) Eight place tube rotor b) Eight 13 x 17 mm ruub selece inserts c) Eight 13 x 13 x 73 mm ruub soluto plastic centrifuge tubes with serve cap with white or black print graduations a) Eight 13 x 17 mm ruub soluton plastic centrifuge tubes d) Eight 13 mL round bottom plastic centrifuge tubes with serve in bold with white or black print graduations e) Eigh			Design Specifications:		
4) Height : 264-206 mm b) Witht : 328-330 mm c) Depth : 328-330 mm d) Certification from the manufacturer of the non-toxicity of the material used 3. Color finish: Black 4. With Angled rotor, 8-Place Centrifuge with Timer 5. With Lad safety shut-off switch 6. Holds 3 mL to 15 mL size tubes 7. With 12 xolt DC maintenance-free motor 8. Maximum volume : 120 mL 115 mL x8) 9. Prase : 3 amp/ 230 volus 10. Maximum speed : 3,500 rpm with fixed speed control. (blood, urine, ecc.) 11. Alexar vice-wapped feet to prevent slipping 13. With Auto-off 200 runu timer with bell 14. With power cord 15. Prower supply: 10/220 v, with auto-switching power adapter 16. Certification : CE, UL, cUL approved 17. Includes the following: a). Bight-place tube rotor b) Eight 13 x 75 mm rund bottom plastic centrifuge tubes with screw cap. e) Eight 13 x 75 mm rund bottom plastic centrifuge tubes with screw cap. 18. Placed in bubble wrap, enclosed in polystyrene and individually packed in sturdy box 19. With Operations Manual and Assembly Guide in English 20. With sample activity sheets in English 21. For runnbers #19 to 20; technical specifications (a-e) must be followedi: a) Po			1. Type : Fixed speed		
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 d) Eight 15 mL round bottom plastic centrifuge tubes with screw cap with white or black print graduations e) Eight 13 x 75mm round bottom plastic centrifuge tubes with screw cap 18. Placed in bubble wrap, enclosed in polystyrene and individually packed in sturdy box 19. With Operations Manual and Assembly Guide in English 20. With sample activity sheets in English 21. For numbers #19 to 20; technical specifications (a-e) must be followed: a) For Contents List of materials, In Table form b) For User's Manual, Instruction Sheets/Assembly Guides, In sentences format i) With correct spelling and terminologies, punctuations and others c) In original print, not photocopied d) In colored pictures, drawings/illustrations e) in 0.3 mm minimum thickness plastic laminated keycard that shall containthe actual colored picture of the model including the name labeled with the required parts with details as follows: i) Paper Size: 14 zise , 80 gsm ii) Font zise : 12 iv) Margins on all sides with 2 point width border line v) Line with arrow head of 1.25 point with width shall point 					
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v) Line with arrow head of 1.25 point with width shall point					
to the specific part being labeled					
		1	נט נווב ארכוווב אמדר הבוווא ומהבוכת	L	

		22. Comes with a training video that shows the actual equipment	
		submitted and approved during the sample evaluation in a USB	
		and shall contain the following:	
		I. Training Video Contents:	
		a. Name of the equipment	
		b. Parts of the equipment	
		c. Instruction on how to use the equipment	
		d. Sample Experiment/Activity using the equipment	
		e. Maintenance of the equipment	
		f. Troubleshooting	
		g. Storage and safekeeping (include cleaning) of the	
		equipment	
		II. Training Video details: a. Shall be in MP4 format.	
		b. Shall be saved in a USB 3.0 Flash Drive.	
		c. Shall have a High-Definition resolution of at least 1080p.	
		d. Shall have a readable subtitle (font style & size: Arial, 22	
		Bold) in English that is grammatically error-free and with	
		correct spelling and punctuation marks and in sync with a	
		voiceover/narration. There is an ON/OFF option for	
		subtitle.	
		e. Shall comply an aspect ratio of 4:3.	
		f. Shall have a cover video pane containing the equipment	
		name and a video pane for each video content.	
		g. The video, voiceover (audio), and subtitle shall be in sync.	
		h. The training video shall cover all the above requirement	
		(video contents).	
		23. Must be free from breakage, cracks, scratches, chipped rims,	
		sharp edges, surface irregularities including all other defects not	
		stated herein	
		24. Comes with a brand marked permanently onto the label	
		25. Must be brand new	
	Electrical	Functional Specifications: Used as a visual demonstration of the	
	Conductivity	electrical conductivity of various liquids/solutions.	
	(Conductivity of	Performance Specifications: Must be used as a visual	
	Solutions) Apparatus	demonstration of the electrical conductivity of various	
		liquids/solutions whether it is an/a	
		a) electrolyte - conducts electricity or	
		b) non-electrolyte - does not conduct electricity .	
		Design Specifications:	
		1. Shape : Cylindrical jar with flat bottom	
		2. Material of jar: Clear, transparent, smooth, and bubble free	
		glass, with the following dimensions: a) Diameter: 72-75 mm	
		b) Height : 75-80 mm	
		3. Capacity of jar/container: 150-200 mL	
		4. It comes with a jar cover which perfectly fits the glass jar	
		a) Material of jar cover: Plastic	
		b) Color of jar cover: Green/Any color	
		5.It consists of an electric lamp (3.0 V) in series with open	
		electrodes	
5		6. It comes with a plastic molded lamp socket	
		7. It comes with one (1) pc bulb	
		a) Type of bulb: Miniature type	
		b) Voltage: 3.0 volts	
		c) Number of extra light bulbs : Ten (10) pc	
		8.With two (2) binding posts color coded (black and red) for	
		connection to two wire connectors.	
		9. With two (2) electrodes, which fit inside the glass jar, internally	
		connected to the lamp circuit, namely:	
		a) a copper wire (anode) and	
		b) a carbon rod (cathode)	
		10. Length of electrodes : 60-80 mm	
		11. First power source: 2 AA batteries	
		12. With 1 pc battery holder	
		13. Comes with second power source: 220 V -240 V AC input)/	
		(0-12 V) DC output, comes with switch selector	
		14. Comes with:	
		a) two (2) connecting wires (1 red, 1 black) with alligator clips	
		(1 red, 1 black) soldered on one end of the wire	
		b) I amonth of mains a 200 210 minute	
		b) Length of wire : 305-310 mm c) Type of wire : Stranded	

			-	
		d) Gauge number : 20 - which is printed permanently on the		
		insulation of the wire 15. Placed in bubble wrap, enclosed in polystyrene and comes		
		complete with a padded box with storage slots for each item to		
		help prevent glass breakage.		
		16. Must be free from breakage, cracks, chipped rims and sharp		
		edges surface irregularities and other defects not stated herein		
		17. Must be able to show during an experiment on Electrical		
		Conductivity of Solutions that electrolytes conduct electricity when		
		the bulb lights up while non-electrolyte solutions did not conduct electricity when the bulb wont light up		
		18.With Operations Manual and Assembly Guide in English		
		19. With sample activity guide/sheets/Teacher's Manual in		
		English		
		20. For numbers #18 to 19; the technical specifications a-e must		
		be followed:		
		a) For Contents List of materials, In Table formb) For User's Manual, Instruction Sheets/Assembly Guides, In		
		sentences format		
		i) With sentences grammatically correct and		
		ii) With correct spelling and terminologies, punctuations and		
		others		
		c) In original print, not photocopied		
		d) In colored pictures, drawings/illustrations		
		e) in 3.0 mm minimum thickness plastic laminated keycard		
		that shall contain the actual colored picture of the model including the name labeled with the required parts with details as		
		follows:		
		i) Paper Size : A4 size , 80 gsm		
		ii) Font : Times New Roman		
		iii) Font size : 12		
		iv) Margins on all sides with 2 point width border line		
		v) Line with arrow head of 1.25 point with width shall point		
		to the specific part being labeled 21. Comes with a brand marked permanently onto the box		
		22. Must be brand new		
	Filter Paper, crepe,	Functional Specifications: Used to filter/separate mixtures solids		
	580mm x 580 mm	from liquids		
	sheet, Grade 0905			
		Performance Specifications: Must be able to filter solids from		
		liquids to demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids)		
		separating mixtures (solids from inquido)		
		Design Specifications:		
		1. Type: Technical use		
		2. Shape of filter paper : Square		
		3. Material: Cellulose with the following dimensions:		
6		a) Length: 580-580.5 mm b) Width : 580-580.5 mm		
		4. Color: White to cream		
		5. Surface: Creped, very coarse textured surface		
		6. Grade 0905		
		7. Initial Filtration Speed: 5 sec/10 mL		
		8. Flow rate : High 9. Peoled in a brown filter paper tube		
		9. Packed in a brown filter paper tube 10.Must be free from dirt and all other surface imperfections		
		including all other defects not stated herein		
		11. Comes with a brand marked permanently printed in the filter		
		paper tube		
	at t	12. Must be brand new		
	Gloves, Hand, super	Functional Specifications: Used to protect hands against		
	nitrile	mechanical risks, microorganisms, chemical burns and splashes		
		Performance Specifications: Must be able to protect hands against		
		mechanical risks, microrganisms, chemical burns and splashes		
7		Design Specifications:		
		1. Features a slightly curved fingers and forward-facing thumb		
		correspond to the natural position of the hand (hand-shaped) 2. Material : Nitrile, reusable, with the following dimensions:		
		a) Length of gloves : 330-332 mm		
		b)Thickness : 15 mil/0.38 mm -0.52 mm		
		The thickness must be measured from the cuff fingers, palm		
		and and fingers		

		c) Submission of the original copy of the Test certificate/s		
		issued by the testing unit, like DOST material testing facilities or		
		at any DOST-accredited testing institution attesting that the		
		material of the hand gloves, is super nitrile, to validate the		
		conformity of the material to the technical specifications. A		
		representative of the Procuring Entity should be present during		
		preparation and submission of the material test specimens to		
		testing facility. All expenses for the said test shall be shouldered		
		by the Supplier.		
		d) With Certification from the manufacturer that the hand gloves		
		is reusable and not disposable		
		3. Color : Green		
		4. Size : 8/Medium		
		5. Interior finish (liner material) : Flocklined acid/solvent		
		resistant)		
		6. Exterior finish : Embossed texture		
		7. Cuff style: Straight		
		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		
		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 pairs in a resealable plastic bag		
		13 With a statement of conformity from the manufacturer that the		
		gloves complies with the specifications currently published and		
		has been subject to the strict quality conditions imposed by		
		internal management systems.		
		14.Comes with a brand printed permanently onto the gloves		
		15. Must be brand new		
	Create to the Carlindon			
	Graduated Cylinder,	Functional Specifications: Used to measure and to deliver the		
	borosilicate, 10 mL	volume of liquids		
		Defense and Sections. Must be able to measure and to		
		Performance Specifications: Must be able to measure and to		
		Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 mL capacity		
		deliver the volume of liquids up to 10 mL capacity		
		deliver the volume of liquids up to 10 mL capacity Design Specifications:		
		deliver the volume of liquids up to 10 mL capacityDesign Specifications:1. Features a narrow cylindrical container with a small turned-out		
		deliver the volume of liquids up to 10 mL capacityDesign Specifications:1. Features a narrow cylindrical container with a small turned-out lip		
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		 deliver the volume of liquids up to 10 mL capacity Design Specifications: 1. Features a narrow cylindrical container with a small turned-out lip 2. Materia l: Borosilicate, clear, smooth, transparent and bubble-free glass 		
		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth, transparent and bubble-free glass Thickness range : 1.3-1.4 mm 		
		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth,transparent and bubble-free glass a)Thickness range : 1.3-1.4 mm b) Outside diameter: 13-14 mm 		
		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth,transparent and bubble-free glass a)Thickness range : 1.3-1.4 mm b) Outside diameter: 13-14 mm c) Height: 177-178 mm 		
		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth, transparent and bubble-free glass a)Thickness range : 1.3-1.4 mm b) Outside diameter: 13-14 mm c) Height: 177-178 mm Features an easy-pour spout 		
		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth,transparent and bubble-free glass a)Thickness range : 1.3-1.4 mm b) Outside diameter: 13-14 mm c) Height: 177-178 mm Features an easy-pour spout With permanent white enamel graduations of approximate 		
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8		 deliver the volume of liquids up to 10 mL capacity Design Specifications: Features a narrow cylindrical container with a small turned-out lip Materia I: Borosilicate, clear, smooth, transparent and bubble-free glass a) Thickness range : 1.3-1.4 mm b) Outside diameter: 13-14 mm c) Height: 177-178 mm Features an easy-pour spout With permanent white enamel graduations of approximate volumes, large white block letters, numbers and inscriptions/markings easy to read etched/engraved onto the glass, before the first graduation, which includes the following: a) Manufacturer's name or trademark 		
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		 10. Must be free from breakage, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein 11. Comes with a brand marked permanently onto the glass 12. Must be brand new 	
	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 capacityb) Used as a container to determine the volume of irregularly shaped solids by water displacement	
		Design Specifications: 1. Features a narrow cylindrical container with a small turned-out	
		lip 2. Material : Borosilicate, clear and transparent bubble-free glass with the following dimensions: a)Thickness range : 1.3-1.4 mm b)Outside diameter: 29-31 mm c) Usight 054 0564 mm	
		 c) Height: 254-256 mm 3. Features an easy-pour spout 4. With permanent white enamel graduations of approximate volumes, large white block letters, numbers and inscriptions/markings easy to read etched/engraved onto the 	
9		 glass, before the first graduation, which includes the following: a) Manufacturer's name or trademark b) Capacity: 100 mL c) Graduations: 1 mL 	
		 d) Class A e) Tolerance : ± 0.60 mL f) EX/TD g) ISO/ASTM/Certification/s latest issued by the concerned institution which must conform to the standards 	
		appropriate to the goods' country of origin. h) 20°C 5. With single graduated metric scale a)Graduation range : 5 to 100 mL b) Graduation Interval : 1 mL	
		6. With plastic bumper guard7. With a hexagonal non-detachable glass base8. With Statement of Accuracy (Certificate of Traceability) orCertification of Accuracy atest issued by the concerned institution	
		which must conform to the authoritative standards lappropriate to the goods's country of origin9. Placed in bubble wrap,and packed individually in a compartmentalized box	
		 10. Must be free from breakage, cracks, scratches, chipped rims, sharp edges, striae, surface irregularities including all other defects not stated herein 11. Comes with a brand marked permanently onto the item 	
	Graduated pipette with rubber pipettor, borosilicate, 10 mL	12. Must be brand new Functional Specifications: Used to measure the amount of liquid being dispensed/delivered/transferred to another containeraccurate up to 10 mL capacity	
		Performance Specifications: Must be able to measure the amount of liquid being dispensed/ delivered/transferred to another container accurate up to 10 mL capacity	
10		Design Specifications: 1. Features a serological, transfer type straight tube with one constricted end" 2. Material : Borosilicate, reusable, clear, transparent bubble-free	
		glass a) With Certification from the manufacturer that the graduated pipette is reusable and not disposable"	
		 3. With permanent colored enamel graduations of approximate volumes, large white block letters, numbers and inscriptions/markings easy to read etched/engraved onto the glass, before the first graduation, which includes the following: a) Manufacturer's name or trademark 	
		b) Capacity : 10 mL	

rr		
	c) Color band code for 10 mL cap	:Orange
	d) Graduation interval: 0.1 mL e) Class A	
	f) Marked "TD" /Ex	
	g) Tolerance : ± 0.06	
	h) ISO/ASTM/Certification/s late	st issued by the concerned
	institution which must conforms to	
	appropriate to the goods' country of	f origin.
	i) 20°C	
	4. Graduated to tip, zero at top 5. Color code for 10 mL cap :Orang	
	6. Top end is constricted	
	7. Capacity: 10 mL	
	8. Graduation interval: 0.1 mL	
	9. Class A permanently marked on	the glass
	Tolerance ±0.06 mL	
	10. Graduations, approximate volu	
	markings are in permanent amber washing solutions	stain which resists aggressive
	11. With Statement of Accuracy/ C	ertification of Accuracy latest
	issued by the concerned institution	
	authoritative standards appropriat	
	12. With a statement of conformity	from the manufacturer that the
	product complies with the specifica	
	has been subject to the strict quali	ty conditions imposed by
	internal management systems.	
	13.Accessory : With Rubber pipettor	
	a) Typ : Three (3) -way Safety I	Bulb-type Pipet Filler with S. E
	and A letters embossed on the rub	
	b) Material : Non-toxic natural	rubber
	c) Color : Red/orange	
	d) With pinch release valves the	at control air evacuation, liquid
	uptake, and liquid dispensing	
	e) Fits standard size pipettes 14. Packaging : Wrap glassware in	newenener and secure with a
	piece of masking tape and place in	
	polystyrene and packed in a sturdy	
	15. Must be free from breakage, cr	
	sharp edges, striae, surface irregul	
	defects not stated herein	
	16.Comes with a brand printed per	manently on the glass
Hydr	17. Must be brand new rometer for heavy Functional Specifications: Used to	measure relative density of
liqui		
iiqui	incavy inquites based on the concept	or buoyancy
	Performance Specifications: Must	be able to measure relative
	density of heavy liquids based on t	he concept of buoyancy, like
	glycerine	
	Design Specifications: 1. Type : Long Plain Form	
	2. Features a long cylindrical hollo	w glass tube with a bulb
	weighted at the pointed bottom wit	
	graduations on the arrow stem for	
	3. Material : Clear , transparent bu	bble-free Glass, with the
	following dimensions:	
11	a) Length : 300 - 330 mm	00
11	4. Specific Gravity Range: 1.00 - 2. 5. Subdivision : 0.01	00
	6. Comes with a ballast	
	a) Material of ballast : Glass	
	b) Heavy metals (lead, mercury)-	free metal ballast
	c) Material inside the ballast : St	
	d) With a binder	
	7. With Statement of Accuracy/ Ce	
	issued by the concerned institution authoritative standards appropriat	
	8. Individually serialized	
	9. Individually packed in a protecti	ve hard plastic case
	10. With User's Manual in English	
	11. With Activity Sheets/Teacher's	Manual in English
	12.For numbers #10-11, the techr followed:	

 		1		
		a) For Contents List of materials, In Table form		
		b) For User's Manual, Instruction Sheets/Assembly Guides, In		
		i) With sentences grammatically correct and		
		ii) With correct spelling and terminologies, punctuations and		
		others		
		c) In original print, not photocopied		
		d) In colored pictures, drawings/illustrations		
		e) in 0.3 minimum thickness plastic laminated keycard that		
		shall contain the actual colored picture of the model including the		
		name labeled with the required parts with details as follows:		
		i) Paper Size : A4 size , 80 gsm ii) Font : Times New Roman		
		iii) Font size: 12		
		iv) Margins on all sides with 2 point width border line		
		v) Line with arrow head of 1.25 point with width shall point		
		to the specific part being labeled		
		13. Must be free from breakage, cracks, scratches, chipped rims,		
		sharp edges, striae, surface irregularities including all other		
		defects not stated herein.		
		14. Must have a brand etched/engraved onto the glass 15. Must be brand new		
	Hydrometer for light	Functional Specifications: Used to measure relative density of light		
	liquids	liquids based on the concept of buoyancy like water		
	nquiuo			
		Performance Specifications: Must be able to measure the relative		
		density of liquids lighter than water based on the concept of		
		buoyancy		
		Desire OresiGestioner		
		Design Specifications: 1. Type : Long Plain Form		
		2. Shape : Long cylindrical hollow glass tube with a bulb weighted		
		at the bottom with a steel ballast with graduations on the narrow		
		stem for measuring		
		3. Material : Clear , transparent bubble-free Glass , with the		
		following dimensions:		
		a)Total Length: 300 - 330 mm		
		b)Subdivision : 0.005 4. Specific Gravity Range : 0.70 to 1.0		
		5. Accuracy : ±1 subdivision		
		6. Comes with a ballast		
		a) With heavy metals (lead, mercury)- free metal ballast and		
		glass		
		b) Material inside the ballast: Steel pellets and		
		c) With a binder		
		7. With Statement of Accuracy/ Certification of Accuracy latest issued by the concerned institution which must conform to the		
12		authoritative standards appropriate to the goods' country of origin		
		8. Individually serialized packed in a protective hard plastic case		
		9. Individually packed in a protective hard plastic case		
		10. With User's Manual in English		
		11. With Activity Sheets/Teacher's Manual in ENglish		
		12.For numbers #10-11; the technical specifications (a-e) must be strictly followed:		
		a) For Contents List of materials, In Table form		
		b) For User's Manual, Instruction Sheets/Assembly Guides, In		
		sentences format		
		i) With sentences grammatically correct and		
		ii) With correct spelling and terminologies, punctuations and		
		others		
		c) In original print, not photocopied		
		d) In colored pictures, drawings/illustrations e) in 0.3 mm minimum thickness plastic laminated keycard		
		that shall contain the actual colored picture of the model		
		including the name labeled with the required parts with details as		
		follows:		
		i) Paper Size : A4 size , 80 gsm		
		ii) Font : Times New Roman		
		iii) Font size : 12 iv) Marging on all aides with 2 point width horder line		
		iv) Margins on all sides with 2 point width border line v) Line with arrow head of 1.25 point with width shall point		
		to the specific part being labeled		
 •			•	

I		13. Must be free from breakage, cracks, scratches, chipped rims,	I
		sharp edges, striae, surface irregularities including all other defects not stated herein	
		14. With a brand etched/printed onto the item15. Must be brand new	
	Laboratory Hot Plate with magnetic stirrer	Functional Specifications: a)Used to heat samples, glasswares and its contents, solutions, and substances uniformly with constant stirring, or b) boiling of water c) to sterilize glasswares and other materials uniformly, d) dissolving buffers and reagents with constant stirring e) preparing media, f) concentrating samples and g) to prepare chemicals used in scientific research. Performance Specifications: Must be able to a) heat samples, glasswares and its contents, solutions, and substances with constant stirring b) boiling of water	
		 b) boining of water c) to sterilize glasswares and other materials uniformly d) dissolving buffers and reagents with constant striring e) preparing media, f) concentrating samples and g) to prepare chemicals used in scientific research h) Agitates the liquid to speed up the reaction and mixes components (solid and liquid to get homogeneous mixtures 	
13		Design Specifications: 1. Type : Digital 2. Top plate material : Ceramic coated aluminum plate (chemical-acid-base resistant)with the following dimensions: a) Length : 178-180 mm b) Width: 178-180 mm c) Submission of the original copy of the Test certificate/s issued by the testing unit, like DOST material testing facilities or at any DOST-accredited testing institution attesting that the material of the top plate is ceramic coated aluminum (chemical- acid-base resistant), to validate the conformity of the material to the technical specifications. A representative of the Procuring Entity should be present during preparation and submission of the material test specimens to testing facility. All expenses for the said test shall be shouldered by the Supplier. 3. Color of top plate : White 4. Color of body: Midnight blue/any color 5. Comes with temperature probe, probe holder, support rod, and stir bar a) With accurate internal temperature sensor and external temperature probe b) With plug/holder/ clamp/clip for temperature probe c) With plug/holder/ clamp/clip for temperature probe	
		 c) With built-in support rod mount, thumbscrew, accommodates rods up to 13 mm in dia. d) With Stand rod with the following dimensions: i) Material: Stainless steel ii) Diameter (Φ):12-14 mm iii) Length: Φ450-452 mm iv) With PTFE Cross Spinplus magnetic stirrer bar Dimensions: 1 x 9/16 inches (25.4 x 14.3 mm) Color: White 6.Maximum Operating Temp.: 380 °C 7. Temperature accuracy : ± 0.3 °C at set temperature 8. Stirring capacity : 5-20 Liters 9. Speed : 80-1500 rpm 10. Control resolution : 5 rpm 11. Temperature range and accuracy : Max 380 °C 12. Heating power consumption : 600 W 13. With digital LCD with backlight display 14. With digital feedback controller with joggle shuttle switch(Turn + Push) 15. With over temperature protection 16. With power cord, AC AdapterQuick and easy adjustment knob 17. Control: Quick and easy adjustment knob 18. With safety LEDs to indicate when heating function has been activated 	

				 I
			19. Power: 220-240 V AC, 50/60 Hz, 800 W	
			20. With built-in support rod mount, thumbscrew, accommodates	
			rods up to 13 mm in dia.	
			21. With quick adjustment knob and LED indicator	
			22. Includes English User's Manual which consists of the Operating Manual	
			23. With Activity Sheets/Teacher's Manual in English	
			24.For numbers #22-23; the technical specifications (a-e) must	
			be strictly followed:	
			a) For Contents/ List of materials, In Table form	
			b) For User's Manual, Instruction Sheets/Assembly Guides, In	
			sentences format	
			i) With sentences grammatically correct and	
			ii) With correct spelling and terminologies, punctuations and	
			others	
			c) In original print, not photocopied	
			d) In colored pictures, drawings/illustrations	
			e) in 0.3 minimum thickness plastic laminated Assembly	
			Guides that shall contain the actual colored picture of the model	
			including the name labeled with the required parts with details as	
			follows:	
			i) Paper Size: A4 size , 80 gsm	
			ii) Font : Times New Roman	
			iii) Font size: 12	
			iv) Margins on all sides with 2 point width border line	
			v) Line with arrow head of 1.25 point with width shall point	
			to the specific part being labeled	
			25. Must be free from breakage, cracks, chipped rims, sharp	
			edges, all urface irregularities and all other defects not stated herein	
			26. Must be packed in polystyrene and enclosed in a sturdy box 27. Comes with a training video that shows the actual equipment	
			submitted and approved during the sample evaluation in a USB	
			and shall contain the following:	
			I. Training Video Contents:	
			a. Name of the equipment	
			b. Parts of the equipment	
			c. Instruction on how to use the equipment	
			d. Sample Experiment/Activity using the equipment	
			e. Maintenance of the equipment	
			f. Troubleshooting	
			g. Storage and safekeeping (include cleaning) of the	
			equipment	
			II. Training Video details:	
			a. Shall be in MP4 format.	
			b. Shall be saved in a USB 3.0 Flash Drive.	
			c. Shall have a High-Definition resolution of at least 1080p.	
			d. Shall have a readable subtitle (font style & size: Arial, 22	
			Bold) in English that is grammatically error-free and with	
			correct spelling and punctuation marks and in sync with a	
			voiceover/narration. There is an ON/OFF option for	
			subtitle. e. Shall comply an aspect ratio of 4:3.	
			f. Shall have a cover video pane containing the equipment	
			name and a video pane for each video content.	
			g. The video, voiceover (audio), and subtitle shall be in sync.	
			h. The training video shall cover all the above requirement	
			(video contents).	
			28. Comes with a brand marked permanently on the box	
			29. Must be brand new	
		Safety Goggles,	Functional Specifications: Used to protect eyes and face against	
		polycarbonate	chemical burns and splashes	
			Performance Specifications: Must be able to protect eyes and face	
			against chemical burns and splashes	
			Desire Onesifications	
	14		Design Specifications:	
			1 Features an angled vented portion that does not allow direct	
			straight line from the exterior to the interior of the eyewear which encloses wide area surrounding the eyes	
			2. Material of lens : Polycarbonate lens	
			a) Submission of the original copy of the Test certificate/s	
			issued by the testing unit, like DOST material testing facilities	
			or at any DOST-accredited testing institution attesting that the	
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		material of the lens of the safety goggles, is polycarbonate, to		
		validate the conformity of the material to the technical		
		specifications. A representative of the Procuring Entity should be present during preparation and submission of the material		
		test specimens to testing facility. All expenses for the said test		
		shall be shouldered by the Supplier.		
		b) With Certification from the manufacturer that the pair of		
		hand gloves is reusable and not disposable		
		3. Color of the lens: Clear		
		4. Lens type : Anti-splash, anti-fog treated/anti-scratch coating 5. With indirect ventilation channels (preventing penetration of		
		splashes) one through each side of the frame to keep out large		
		particles, dust, and liquids and splash hazards, improves air		
		circulation and reduces fogging in hot/humid conditions		
		6. With wrap around elasticized adjustable headband integrated		
		with goggle frame to prevent slippage and holds the goggle more		
		securely		
		7. With pivoting headband clips to adjust strap around hard hats or hearing protection		
		8. Peel-off goggle covers available to extend the life of the lens		
		9. Can be worn over most prescription eyewear (OTG compatible)		
		10. With firm comfortable seal around forehead, cheeks, nose and		
		temples protects against chemicals, dust and grindings		
		11. Shall bear mark ANZI Z87.1-2010 Standard for Chemical		
		Splash and Dust Protection, Z87+D3 to indicate an impact		
		protector type (ANSI Z87.1, CE EN 166 or CSA Z94.3 certification compliance) on the frame and the lens		
		12. The manufacturer or supplier certification mark must be		
		present on all approved safety lenses, frames (front and temple),		
		removable side shields, and other parts of the glasses, or goggles.		
		13. Individually packed in a transparent plastic bag		
		14. Labeling of the primary packaging displays, product name,		
		product reference, manufacturer name, size, type, performance		
		testing information for particular storage conditions (temperature, pressure, light, humidity, as appropriate or harmonized symbol as		
		applicable.		
		15. With issuance of certification statement from the		
		manufacturer as to the:		
		a) Non-toxicity of the materials used		
		b) Material of the lens : polycarbonate		
		c) It is fog coated/scratch and impact resistant 16. Individually packed in a sturdy box/plastci bag		
		17. Must be free from cracks, sharp edges, and all other surface		
		imperfections including all other defects not stated herein		
		18. Comes with a brand marked permanently on the box		
		19. Must be brand new		
	Thermometer,	Functional Specifications: Used to measure the temperature		
	Laboratory type, Alcohol, -20°C to	Performance Specifications: Must measure the temperature 200		
	Alcohol, -20°C to	Performance Specifications: Must measure the temperature , -20° to 110°C		
	1100			
		Design Specifications:		
		1. Type : Alcohol filled, partial immersion thermometer		
		2. Features 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/yellow		
1	5	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 with no separations		
		12. All graduation lines, figures, and letters should be clear-cut,		
		distinct, and filled with a permanent pigment of suitable color with		
		the following dimensions: a) Length : 200 mm (min)		
		b). Accuracy: $\pm 1^{\circ}$ C		
1 1		c) Range : -20° C to 110° C		

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			 d) Division: 1°C e) Diameter: 5.8 to 6.2 mm f) Immersion line: 76 mm" 13. With Statement of Accuracy/ Certification of Accuracy latest issued by the concerned institution which must conform to the authoritative standards appropriate to the goods' country of origin 14. Must be free from breakage, cracks, chipped and sharp edges and surface irregularities including all other defects not stated herein. 15. Comes with a brand printed permanently onto the glass 16. Must be brand new 		
	SCIEN		IENTS, AND MEASURING TOOLS - EARTH & SPACE and LIVING T	HINGS	
		Anemometer with Wind Vane, Cup type	Functional Specifications: Used to measure wind speed in real time and indicate the direction where the wind is coming from and where it is heading		
			Performance Specifications: Should be able to measure wind speed in real time and indicate the direction where the wind is coming from and where it is heading		
			Design Specifications: 1. Anemometer and wind vane combined in 1 unit 2. Dimension of unit : 340-350 mm x 75-80 mm x 75-80 mm (H x W x D)		
	1		 3. Powered by AA dry cells 4. Direct digital reading of wind speed, can display wind speed in m/s and km/hr, can measure average wind speed and instantaneous wind speed by means of selector switch 5. Wind vane should be free moving to indicate wind direction, wind vane should have arrow head on one end and arrow tail on the other end 		
		Anomeneter Simple	 6. Made of corrosion resistant material 7. All labels, inscriptions, and instructions should be in English 8. The item should be free from toxic materials 9. The item should be branded and permanently marked on the item Functional Specifications: Used to determine wind speed by 		
7		Anemometer, Simple	Performance Specifications: Should be able to determine wind speed by calculating the number of rotations the rotor makes per unit time		
	2		 Design Specifications: Sensitive/low friction model for demonstrating the principle of wind velocity. Can rotate with human blow Made of corrosion resistant material Consist of 4 cups (4.5-5 cm diameter) mounted on a hub and on an axle securely affixed to a tough and stable base. 3-cups are colored black with one red cup to facilitate counting of rotations. Dimension: 210-220 mm x 150-160 mm (H X W) With No Removable Parts All labels and inscriptions should be in English, and permanently marked on the item The item should be free from toxic materials The item should be branded and permanently marked on the item 		
		Aneroid Barometer Set (Demonstration Type)	Functional Specifications: Used to demonstrate how an aneroid barometer works Performance Specifications: Should be able to to demonstrate how an aneroid barometer works Design Specifications:		
	3		 The unit is supplied with rubber compression bulb with tube, changes in pressure can be demonstrated and obtained by compressing the rubber bulb Dual graduation: mm Hg and mbar(hPa). Range: 960 to 1060 mbar with mmHg equivalent Dial Diameter of 98 to 100 mm With English User's manual that includes the operation and reset procedure. Must be branded and permanently marked on the item 		

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	Aneroid Barometer, wall-mount	Functional Specifications: Used to measure the prevailing atmospheric pressure in a locality in real time	
		Performance Specifications: Should be able to measure the prevailing atmospheric pressure in real time	
4		 Design Specifications: 1. Reading standard Scale Range: 960 mbar to 1060 mbar 2. Dual graduation: mmHg and mbar(hPa) 3. Dial Diameter: 98 mm-130 mm 4. Materials: plated bezel, scratch-free cover glass, and plastic base 5. Shock resistant, heat resistant 6. With English User's manual that includes the operation and reset procedure. 	
		7. Must be branded and permanently marked on the item	
	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	
_		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	
5		Design Specifications: 1. Outside Diameter: 48-50 mm 2. Needle mounted in an Aluminum case with clear, scratch-free	
		 2. Needle informed in an Administric Case with clear, scratch-need plastic or glass face 3. Graduated dial marked in cardinal points (North, South, West, East, Northwest, Northeast, Southwest, and Southeast). 4. Must be branded and permanently marked on the item 	
	Dissecting Set with pan	Functional Specifications: Used to perform a wide variety of dissections.	
	pan	Performance Specifications: Must be able to aid in classifying different animal tissues during dissection.	
		Design Specifications: 1. 10 pc dissecting set that includes the following stainless steel instruments:	
6		 1 piece surgical scissors, minimum length of 110mm 1 piece fine point/iris scissors, minimum length of 110mm 1 piece fine point curved forcep, minimum length of 110mm 1 piece fine point straight tip forcep, minimum length of 110mm 1-piece tissue forcep/mosquito forcep, curved tip 1-piece scalpel minimum 4 cm blade length 1-piece scalpel handle 	
		 1-piece teasing needle angular with chuck 1-piece teasing needle straight with chuck 1-piece mall probe and seeker 2. In a rectangular vinyl zippered case; 	
		 3. With 1-piece stainless steel dissecting pan (minimum): 254 mm x 178 mm x 38 mm 4. "Stainless steel" shall be embossed or engraved on the items whenever applicable. 	
		5. Must be branded and brand new. The brand shall be printed on vinyl zippered case.	
	First Aid Kit	Functional Specifications: Used to provide immediate medical help in an emergency.	
		Performance Specifications: Must be able to treat minor illnesses and injuries in an emergency.	
7		Design Specifications: 1. First Aid Quick Reference Guide in English, 1pc 2. Sterile Medical Gauge Swab (minimum) 10cm x 10 cm x 12 ply, 100 pcs,/pack, 1 pack or 2 packs (50 pcs/pack) 3. Adhesive strips/Band -Aid, 50 pcs/pack, 2 packs 4. Gloves,disposable, 2 pairs (1-medium and 1-large) 5. Hypo allergenic adhesive tape (minimum) 5cm x 5m, 2 rolls 6. Trip multi hand a come for a pairs (1-medium and 1-large)	

		7. Safety pins, (minimum) 30 mm - (12 pcs); (minimum) 44mm-		
		(12 pcs)		
		8. Stainless steel bandage scissors, minimum length 14 cm, 2 pcs (no plastic part)		
		9. Betadine, 60ml, 2 bottles (Expiration date shall be at least two		
		years). 10. Hydrogen Peroxide, 3% solution as indicated on product label,		
		60 ml, 1 bot. (Expiration date shall be at least two years.)		
		11. Hand towels or face towels, white color, 6 pcs 12. Gauze bandage, (minimum): 5cm x 4m, 2 rolls		
		13. Antiseptic handwash/germicidal soap, 60 gms, 2pcs		
		14. Tourniquet, 2 pcs 15. Spirit of ammonia, 30ml, 1 bot. (Expiration date shall be at		
		least two years)		
		16. Burn cream ointment 15g - 20g, 1 tube (Expiration date shall		
		be at least two years.) 17. Medical tweezers minimum 8cm, plastic , 2pcs		
		18. Plastic bags, resealable, minimum 100mmx180mm-24pcs;		
		minimum 150mmx230mm-24 pcs 19. Cotton balls, minimum 50 balls in a sealed package, 2 packs		
		20. Hot and Cold pack, reuseable, 1 pack		
		21. With water resistant medical emergency rescue bag with handle that can accommodate all of the above listed items.		
		22. All items must be branded and brand new. The brand shall be		
		printed on the packing of each item or on the item whenever		
	Gloves, Surgical	applicable. Functional Specifications: Used to protect hands from dirt and		
		contamination.		
		Performance Specifications: Must be able to protect hands against		
		dirt, laceration and contamination.		
		Design Specifications:		
8		1. Sterile, latex surgical gloves		
		 Smooth, powder-free and beaded cuff Color: White or beige 		
		4. Size range: Medium - Large		
		5. Individually sealed pack pair of gloves with brand and type of material printed on it.		
		6. Must be branded and brand new.		
	Hand Lens, 10x magnification	Functional Specifications: Used for enlarging the appearance of objects 10 times its actual size		
	magninication	objects to times its actual size		
		Performance Specifications: Should be able to enlarge the		
9		appearance of objects 10 times its actual size		
		Design Specifications:		
		 Magnification: x 10 Diameter (viewable area) 18-20 mm 		
		3. Body: Stainless steel; Handle: plastic		
	Hand Lens, 5x magnification	Functional Specifications: Used to produce a magnified image of an object.		
		Performance Specifications: Must be able to magnify the image of		
		an object.		
		Design Specifications:		
10		Design Specifications: 1. Five times (5x) magnification power		
10		 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm 		
10		1. Five times (5x) magnification power		
10		 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects 		
10		 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box 		
10		 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. 		
10	Hexagonal Weigh Dishes Set. 50mL	 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. Functional Specifications: Used for containment of relatively small		
10	Hexagonal Weigh Dishes Set, 50mL, 500 pcs/pack	 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. Functional Specifications: Used for containment of relatively small amount of solid or liquid specimens for weighing		
10	Dishes Set, 50mL,	 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. Functional Specifications: Used for containment of relatively small amount of solid or liquid specimens for weighing Performance Specifications: Should be able to contain relatively		
	Dishes Set, 50mL,	 Five times (5x) magnification power Glass lens; diameter range: 45mm - 50 mm Mounted in a circular chrome-plated metal frame with a cylindrical handle No sharp edges and other defects Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. Functional Specifications: Used for containment of relatively small amount of solid or liquid specimens for weighing		

		 2. Easily bent into pouring spouts to facilitate in sample transfers and reduce the risk of spills. 3. Ideal for handling solids or liquids during weighing procedures. 4. Flat bottoms and sloping sides allow these disposable dishes to be easily stacked and conveniently stored. 5. Must be branded and permanently marked on the item 	
	Lens Paper, 50's/pack	6. Quantity: 500 pcs Functional Specifications: Used to clean the microscope lenses.	
	50 Sy pack	Performance Specifications: Must be able to clean the microscope lenses.	
12		 Design Specifications: 1. Measures (minimum) 100 mm x 150 mm 2. Material: Fine, soft, lint-free paper 3. Quantity: 50 sheets/booklet 4. Must be packed in a resealable plastic 5. Must be branded and brand new. The brand shall be printed on the cover of the booklet. 	
	Microscope, Compound with 4 Objectives	Functional Specifications: Used to view specimen not visible to the naked eye.	
	objectives	Performance Specifications: Must be able to focus specimen not visible to the naked eye using the four objectives.	
		Design Specifications: 1. Eyepiece: Glass lens, locked-in wide field, 10X with pointer, and with own separate plastic storage case includes an extra 15X evepiece	
		 2. Nosepiece: Quadruple with accurate centering and click stops; easy to turn 3. Objectives: With metal casing, glass lens, DIN achromatic 	
		objectives are parfocal, par centered, color coded, 4x,10x; retractable 40x, and 100x (oil immersion) with own separate plastic storage case	
		4. Stage: Built in flat, firmly fixed graduated mechanical stage clips and with knobs; minimum 110 mm x 110 mm ; glass slides shall not be displaced when mounted	
		 5. Condenser: N.A. 1.25 with iris diaphragm 6. Focus: Dual coarse controls with slip clutch and adjustable tension ring; dual lever type fine focus controls; adjustable safety stop. Gives sharp, clear, well-lighted images 	
13		 7. Mirror range: 49mm - 51 mm, 2-sided, plane-concave 8. No sharp metal parts and other defects 9. With wooden storage case; and immersion oil provided 10. With English User's Manual that shall provide the diagram of correct microscope parts; function of each part; operation guide; 	
		cleaning and troubleshooting instructions. 11. Manual details:	
		a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm) Cover: Paper board, 280 gsm (minimum 0.30 mm)	
		b. Size: (minimum) 165 mm x 215 mm Fold (minimum) 330 mm x 215 mm Spread c. Binding: Saddle Staple	
		 d. Font type: Arial and Font size (minimum): 10 e. Pictures shall be in full color 12. Comes with a training video that shows the actual equipment 	
		submitted and approved during the sample evaluation and shall contain the following: I. Training Video Contents:	
		a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment	
		d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting	
		g. Storage and safekeeping (include cleaning) of the equipment	
		II. Training Video details:a. Shall be in MP4 format.b. Shall be saved in a USB 3.0 Flash Drive.c. Shall have a High-Definition resolution of at least 1080p.	

		d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a	
		voiceover/narration. There is an ON/OFF option for subtitle.	
		e. Shall comply an aspect ratio of 4:3. f. Shall have a cover video pane containing the equipment	
		name and a video pane for each video content.	
		g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement	
		(video contents). 13. Warranty on parts and labor: 2 years	
		14. Must be branded and brand new. The brand shall be permanently mark on the item.	
	Microscope, Digital	Functional Specifications: Used to focus specimen with the image	
		viewed through the LCD screen.	
		Performance Specifications: Must be able to show the structure of subcellular organelles.	
		Design Specifications: 1. Nosepiece: Triple with 4x, 10x, 40x achromatic objectives and	
		click stop 2. Magnification: 40x, 100x, and 400x (1600x with digital zoom) 3. Has full color (minimum) 3.5" TFT LCD screen with onboard	
		software 4. Digital Camera: 5 MP CMOS sensor (minimum) as indicated in the manufacturer's manual	
		 5. With built-in top and bottom LED illumination sources 6. 220V; 50/60 Hz power source 7. Battery options 4AA 	
		8. Stage: (minimum) 88 mm x 88 mm; fully mechanical with metal clips;	
		9. Six position filter wheel 10. With 180° rotating LCD screen	
		11. Combination of smooth-finished metal and plastic parts 12. Supports up to 32G Memory size	
		13. AC Plug (power) SD Card (32G max) Port(s) In	
		14. With TV/AV output for display on large monitors for classroom or at the laboratory	
		15. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall	
1	4	contain the following:	
1	.4	I. Training Video Contents: a. Name of the equipment	
		b. Parts of the equipment c. Instruction on how to use the equipment	
		d. Sample Experiment/Activity using the equipment	
		e. Maintenance of the equipment f. Troubleshooting	
		g. Storage and safekeeping (include cleaning) of the equipment	
		II. Training Video details: a. Shall be in MP4 format.	
		b. Shall be saved in a USB 3.0 Flash Drive.	
		c. Shall have a High-Definition resolution of at least 1080p. d. Shall have a readable subtitle (font style & size: Arial, 22	
		Bold) in English that is grammatically error-free and with	
		correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle.	
		e. Shall comply an aspect ratio of 4:3. f. Shall have a cover video pane containing the equipment	
		name and a video pane for each video content.	
		g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement (video contents).	
		16. Warranty on parts and labor: 2 years	
		17. With English User's Manual that shall provide the diagram of correct microscope parts; function of each part; operation guide;	
		cleaning and troubleshooting instructions. 18. Manual details:	
		a. Material: Inside pages: Book Paper, 80 gsm (minimum	
		0.08mm)	

		Course Denser board (200 mm (minimum 0.20	<u> </u>	
		Cover: Paper board, 280 gsm (minimum 0.30 mm) b. Size: (minimum) 165 mm x 215 mm Fold		
		(minimum) 330 mm x 215 mm Spread c. Binding: Saddle Staple		
		d. Font type: Arial and Font size (minimum): 10 e. Pictures shall be in full color		
		19. Accessories included: a. Minimum 1 GB micro SD card		
		b. USB 2.0 Cable (data transfer) c. Dust Cover		
		d. Rugged canvass carrying case with shoulder strap e. Five (5) prepared slides		
		f. AC Adapter with 4 International Plugs		
		g. AV out cable for viewing on a TV or projector 20. Must be branded and brand new. The brand shall be		
	Pipette, Beral, 1 mL	permanently mark on the item. 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.		
15		Design Specifications: 1. One-piece pipette, made from flexible soft non-toxic plastic that		
10		has a protuberance on top that serves as liquid retention chamber (Certificate of non-toxicity is required)		
		2. Capacity: 1 mL in 0.25 mL grad interval 3. No rubber head		
		4. Total length (minimum): 140 mm 5. With molded (embossed) graduations		
	Prepared Slide Set,	6. Must be brand new Functional Specifications: Used to contain the readily mounted		
	Microscope, 25 pieces	and ready to view object/specimen for examination under a microscope.		
		Performance Specifications: Must be able to show the specimen when viewed under a microscope.		
		Design Specifications: 1. Quantity: Set of 25 pieces glass slides		
		2. Dimensions (Width x Length) minimum: 25 mm x 75 mm 3. Thickness (minimum) : 1.0 mm		
		 4. Individually sealed and protected by a cover slip/glass cover; 5. Clear, distinct and colorful slides of the following: insects (4); 		
		 b) Citcal, distinct and colored states of the following. Insects (4), plants (7); animals/microbes (7); Human tissues (7) 6. Either of the following insects: wing of housefly, mosquito 		
		 larvae, <i>Drosophila melanogaster</i>, housefly head, aphids. 7. Either of the following plants: <i>Volvox</i>, stem of monocotyledon 		
		c.s, stem of dicotyledon c.s., monocot leaf epidermis, dicot leaf epidermis, germinated pollen, <i>Hydrilla</i> leaf w.m.		
16		8. Either of the following animals/microbes: <i>Hydra</i> budding, <i>Euglena</i> , diatoms, <i>Daphnia</i> w.m., <i>Amoeba proteus</i> , <i>Paramecium</i>		
10		w.m., Planaria w.m., Planaria c.s., Ascaris mitosis, Vorticella, lancelet w.m., Escherichia coli, Staphyloccocus aureus,		
		<i>Lactobacillus</i> spp. 9. Either of the following human tissues: skeletal muscle c.s.,		
		small intestine c.s., human white blood cell, cardiac muscle; motor neurons cell w.m., spinal cord c.s., lung section, liver		
		section, nerve cell w.m., spinar cord c.s., tung section, neve section, nerve cell w.m., meiosis of human sex cells, stomach villi 10. Writing the scientific name with correct spelling shall be		
		properly observed. 11. Individually and permanently labeled for specimen		
		identification. 12. Slides are packed in a fitted plastic box that contains interior		
		padding to prevent breakage. 13. No finger-smudged and no chipped edges slide		
		14. Includes instructions on how to clean and properly store the slide in a coated paper-glossy finish minimum 105 mm x 140 mm,		
		Font style: Arial, Font size(minimum): 10, written in American English.		
		15. Must be branded and brand new. The brand shall be permanently marked on the storage box.		
	1	permanenty marked on the storage box.	LL	

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	Prepared Slide Set, Mitosis and Meiosis	Functional Specifications: Used to guide students through the events of cell division.	
		Performance Specifications: Must be able to compare mitosis and	
		meiosis, and their role in the cell-division cycle.	
		Design Specifications:	
		1. A set of 6 rectangular microscope glass slides with polished edges; with clear and distinct sample specimen.	
		a. Ascaris megalocephala embryology. Sec. of uteri showing	
		maturation stages (meiosis). Polar bodies can be seen. b. Giant chromosomes, smear from salivary gland of	
		<i>Chironomus,</i> carefully fixed and stained c. <i>Lilium,</i> anther t.s., microspore mother cells showing telophase	
		of first and prophase of second (homeotypic) division	
		d. Meiotic and mitotic stages in sec. of <i>Salamandra testis</i> . Many meiotic and mitotic stages can be observed.	
17		e. Mitosis, l.s. from Allium root tips showing all stages of plant	
		mitosis carefully stained with iron-hematoxyline f. Mitotic stages in sec. through red bone marrow of mammal	
		2. Dimensions (Width x Length) minimum: 25 mm x 75 mm 3. Thickness (minimum): 1.0 mm	
		4. Individually sealed and protected by a cover slip/glass cover;	
		5. Each slide is permanently labeled for specimen identification;6. Writing the scientific name with correct spelling shall be	
		properly observed; 7. Slides are kept in a fitted plastic storage box that contains	
		interior padding to avoid breakage	
		8. No finger-smudged and no chipped edges slide9. Includes instructions on how to clean and properly store the	
		slide in a coated paper-glossy finish (minimum 105 mm x 140	
		mm), Font style: Arial, Font size(minimum): 10, written in American English.	
		10. Must be branded and brand new. The brand shall be permanently marked on the storage box.	
	Reaction Plates with 6 Wells	Functional Specifications: Used to contain small amount of	
	o wens	samples of specimens under study	
		Performance Specifications: Should be able to contain small amount of samples of specimens under study	
		Design Specifications:	
		1. Made of clear, non-toxic plastic material that is free from sharp	
18		edges. 2. Plate Shape: Rectangular	
		3. Plate Length: 110-120mm 4. Plate Width: 85-100mm	
		5. Six Well per Plate	
		6. Well Shape: Circular/ Round 7. Well diameter: 30-35 mm	
		8. Well deep: 6-8mm 9. Well capacity: 1.6 mL -2.0mL	
		10. Used for soil and water testing	
	Sedimentator Tube	11. Must be branded and permanently marked on the item Functional Specifications: Used to demonstrate how soil	
		sediments settle in water	
		Performance Specifications: Should be able to demonstrate how	
		soil sediments settle in water	
		Design Specifications: 1. 10 1/2 inches - 12 inches height with a diameter of 1 - 1 1/2	
		inches	
19		 Sealed and leak free The body made of clear, transparent plastic tube. 	
		 With different sediment and crystal clear water. Functions: 	
		a. Use for observing movement, deposition, and layering of	
		sediments and organic materials. b. Observations apply to sedimentary rock formation and fossil	
		formation 6. With English User's Manual that includes	
		a. operation guide.	
		b. Guide on how to use	

		c. Student Activity Sheets	
		7. Brand must be permanently marked on the item.	
	Sling Psychrometer	Functional Specifications: Used to measure relative humidity Performance Specifications: Should be able to measure relative	
		 humidity Design Specifications: 1. Composed of two red spirit thermometer in Celsius with temperature ranges: -5°C to +50 °C 2. Equipment Size: (7 -8 inches long x 1-2inches diameter) 3. Built -in Psychrometer Water Reservoir 4. Includes a wick for Wet Bulb 	
		 5. Wick Replacement Kit- containing 4 wicks 6. Build in Slide rule construction for quick conversion temperature reading to relative humidity 7. Includes additional two thermometers for replacement with individual plastic or hardboard case 8. Easy to rotate to determine the relative humidity. 9. With English User's Manual that includes: 	
20		 a. Operation Guide b. Maintenance 10. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall contain the following: I. Training Video Contents: 	
		 a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting g. Storage and safekeeping (include cleaning) of the 	
		 g. Obtage and sattecping (include cleaning) of the equipment II. Training Video details: a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive. c. Shall have a High-Definition resolution of at least 1080p. d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle. e. Shall have a cover video pane containing the equipment name and a video pane for each video content. g. The video, voiceover (audio), and subtitle shall be in sync. 	
	Soil pH, Moisture, Sunlight Meter	 h. The training video shall cover all the above requirement (video contents). 11. Must be branded and permanently marked on the item Functional Specifications: Used to measure pH, moisture content of soil and measure sunlight available to the soil sample in real 	
		time Performance Specifications: Should be able to measure pH, moisture content of soil and measure sunlight available to the soil sample in real time Design Specifications:	
21		 Compose of two electrodes, 7 inches -10 inches long pH/ Moisture/ Sunlight Switch pH Range: 3.5 - 8 pH (3.5-6.5 Acidic, 7-8 Alkaline) Moisture Range: 1-10 (1-3 Dry; 4-6 Normal; and 7-10 Wet) Light Range: 0 - 2000 lux (0-200 Low, 200-500 Low+, 500-1000 Normal, and 1000-2000 High) With English User's Manual that includes: a. Operation Guide b. Procedure on the proper use, handling and storage. c. Student Activity in using the item. 	
		 7. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall contain the following: I. Training Video Contents: a. Name of the equipment 	

			1	
		 b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting g. Storage and safekeeping (include cleaning) of the equipment II. Training Video details: a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive. c. Shall have a High-Definition resolution of at least 1080p. d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle. e. Shall comply an aspect ratio of 4:3. f. Shall have a cover video pane containing the equipment 		
		 name and a video pane for each video content. g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement (video contents). 8. Brand must be permanently marked on the item. 		
	Soil/Test Sieve*	Functional Specifications: Used to determine the prevailing air temperature inside a room in real time Performance Specifications: Should be able to determine the prevailing air temperature inside a room in real time		
22		 Design Specifications: 1. Alcohol filled red color, glass tube type 2. Overall length: 760 mm (minimum) 3. Tube containing liquid column: 23 inches (minimum) 4. Temperature range (dual): 4.1 Centigrade: -40°C to +50°C 4.2 Fahrenheit: -40°F to +120°F 5. Brand must be permanently marked on the item. 		
	Thermometer, Classroom, wall- mount	Functional Specifications: Used to determine the prevailing air temperature inside a room in real time Performance Specifications: Should be able to determine the		
23		 prevailing air temperature inside a room in real time Design Specifications: Alcohol filled red color, glass tube type Overall length: 760 mm (minimum) Tube containing liquid column: 23 inches (minimum) Temperature range (dual): Centigrade: -40°C to +50°C Fahrenheit: -40°F to +120°F Brand must be permanently marked on the item. 		
24	Tong, Beaker	 Functional Specifications: Used to hold heated beakers. Performance Specifications: Must be able to secure hot beakers. Design Specifications: Scissor-like tool with plastic-coated jaws Made of minimum 6.0 mm smooth finish chrome-plated steel With flat riveted joint Total length (minimum): 254 mm Holds beakers from 50mL to 1000 mL Safely packed in a box Must be branded and brand new. The brand shall be printed on the box. 		
25	Wash Bottle, plastic, 250 mL	Functional Specifications: Used to store and dispense water for diluting solutions, washing precipitates and rinsing glass wares. Performance Specifications: Must be able to store and dispenses water in diluting, washing precipitates and rinsing activities. Design Specifications: 1. Translucent and non-toxic plastic material (Certificate of non- toxic translucent)		
		toxicity is required) 2. Cylindrical body shape 3. Easy squeeze dispensing; no leaks		

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			4. Capacity: 250 mL.		
			5. Screw type closure with its angled stem and draw tube molded in one piece		
			6. Must be brand new.		
	MATH	IEMATICAL MANIPUL			1
		Algebra Tile Set,	Functional Specifications: Used to demonstrate algebraic concept		
		plastic	up to second degree polynomial.		
			Porformance Specifications: Must be able to represent		
			Performance Specifications: Must be able to represent mathematical expressions and equations to introduce and foster		
			algebraic concepts, including adding and subtracting polynomials,		
			factoring trinomials, and the Zero Principle.		
			Design Specifications:		
			1. Algebra Tiles should come in a set of 30 that includes the following:		
	1		a. 6 pcs of Square Tile (Squared Variable Tile) about 89mm x		
	1		89mm x 1mm (minimum) in size and color blue		
			b. 16 pcs of Long Tile (Variable Tile) about 89mm x 21mm x		
			1mm (minimum) in size and color green c. 24 pcs of Ones Tile (Constant Tile) about 21mm x 21mm x		
			1mm (minimum) in size and color yellow		
			Note: Each kind of tile should have RED back color to denote the		
			Negative side of the tiles.		
			2. Made of plastic and has no sharp edges.		
			3. Must be stored in a plastic storage box with a capacity to store 1,300 pcs of Algebra Tiles.		
			4. Shall be free from toxic materials.		
			5. Brand must be permanently marked on the plastic storage.		
		Base Ten Blocks	Functional Specifications: Used to demonstrate abstract		
			mathematical concept of the number system such as one-to-one correspondence, place value, and basic addition and subtraction		
			correspondence, place value, and suble addition and subtraction		
			Performance Specifications: Must be able to demonstrate a		
			number's value and place value and vice versa.		
	2		Design Specifications:		
			1. Made of plastic, smooth surface and edges, and free from toxic		
8			materials		
			2. The set includes 100 units $(1 \text{ cm } x \text{ 1 cm } x \text{ 1 cm } [\text{minimum}])$, 10		
			rods (1 cm x 1 cm x 10 cm [minimum]), 10 flats (1 cm x 10 cm x 10 cm [minimum]), and 1 cube (10 cm x 10 cm x 10 cm		
			[minimum]).		
			Note: Each block should have distinct color from each other (e.g.:		
			Unit - Red, Rod - Yellow, Flat - Green, Cube - Blue).		
			3. Comes with a plastic container with cover to accommodate all the items.		
			4. Shall be free from toxic materials.		
			5. Brand must be permanently marked on the plastic container.		
		Beads	Functional Specifications: Used to reinforce counting, sorting,		
			patterning and sequencing.		
			Performance Specifications: Must be able to scaffold learners in		
			counting and grouping of numbers, colors, patterns, etc.		
			Design Specifications: 1) Bead Material: Plastic, spherical, smooth surface		
	3		2) With a hole that passes through the center		
			3) Bead diameter: 15 mm to 18 mm		
			4) Assorted color, at least 5 colors consisting of 60 pieces each		
			color. 5) Comes with a plastic transparent storage container with cover		
			6) The items shall be free from toxic materials.		
			7) Comes with nylon string of 5-6 meters long that fit loosely to		
		Circle Ar	beads hole		ļ
		Circle Area Demonstrator	Functional Specifications: Used to demonstrate area of a circle.		
		Demonstrator	Performance Specifications: Performance: Must be able to		
	4		show/demonstrate derivation of circle's area and how dimensions		
	4		of a parallelogram is related to it.		
			Design Specifications:		
			1. Material: Plastic		
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		2. Circle Diameter: 196 mm (minimum) - Each half comes in		
		different colors 3. Thickness: 5 mm (minimum)		
		4. Dissectible into at least 12 sectors		
		5. Comes with base for mounting the circle and the sectors.		
		6. Shall be free from toxic materials.		
	Compass, Drawing, student type	Functional Specifications: Used to draw/construct arcs, semi- circles and circles.		
		Performance Specifications: Must be able to draw/construct arcs, semi-circles and circles.		
5		Design Specifications: 1. Compass, two legs, stainless steel; 2. Length: 120mm - 150mm;		
		3. With pencil adaptor attached at or integrated on one end of one of the legs. The said adaptor must be able to adapt, also, to any kind of pencil available in the local market;		
		4. Stainless Steel: Well-polished and smooth;5. Comes with transparent plastic case or box; and6. Brand must be permanently printed on the case.		
	Cuisenaire Rods, set of 5	Functional Specifications: Used to provide an interactive, hands- on way to explore mathematics and learn mathematical concepts, such as the four basic arithmetical operations, working with fractions and finding divisors.		
		Performance Specifications: Must be able to demonstrate four fundamental operations, part-to-whole concept, decimals and other concepts related to number sense and measurement.		
6		Design Specifications: 1) Made of hard, smooth finish plastic materials. 2) One (1) set is composed of 74 cuisenaire rods of different colors.		
		 3) Each color represents a specific rod length. 4) Rod Lengths are: 1cm -white, 2cm - red, 3cm - gray, 4cm - pink, 5cm - yellow, 6cm - green, 7cm - dark green, 8cm - brown, 		
		9cm - blue, and 10cm - orange. 5) Comes in a plastic storage container with cover that accomodates 5 sets of cuisenaire rods.		
		6) The item shall be free from toxic materials.		
		7) Brand must be permanently printed on the case.		
	Elapsed Time (Clock) Set	Functional Specifications: Used to demonstrate time and other related concepts.		
		Performance Specifications: Must be able to represent and demonstrate time using hour hand and minute hand.		
		Design Specifications:		
_		1. A set includes: a. Two Twelve (12) hour demonstration clock, magnetic		
7		b. Segmented timeline, 24-hour timeline (AM and PM) which makes up of 4 segments		
		c. Removable guide numbers d. Start and End arrows		
		 Dial diameter measures 24-26 cm The hour number must be printed in Hindu Arabic numeral 		
		and with corresponding minute(s) number in the same numeral format.		
		4. The item shall be free from toxic materials.		
	Geoboard, 11 x 11	5. Brand must be permanently printed on the case. Functional Specifications: Used to explore basic concepts in plane geometry such as perimeter, area and the characteristics of triangles and other polygons.		
8		Performance Specifications: Must be able to demonstrate or visually represent different kinds of polygons and circles and how to compute their respective area, perimeter, and circumference.		
		Design Specifications: 1. Double sided geoboard - square pattern on one side (11 x 11), circle on the other;		
		2. Made of plastic material and comes in any color;		

		 3. The surfaces and edges must be smooth, no warps, must sits flat when laid on the table; 4. Board Dimensions (W x L): 229 mm x 229 mm (minimum); 5. Edging Height (all sides): 6 mm from the board (minimum); 6. Board and Edging Thickness: 3 mm (minimum); 7. Array Pin Diameter: 3 mm (Minimum); 8. Array Pin Height: 5 mm (Minimum); 9. Comes with a transparent plastic case; 10. Comes with Instruction Manual in English with illustrations; 11. Comes with assorted size and color rubber bands (25 pcs); and 	
	Geoboard, 5 x 5	12. Brand must be permanently printed on the caseFunctional Specifications: Used to explore basic concepts in plane geometry such as perimeter, area and the characteristics of triangles and other polygons	
		Performance Specifications: Must be able to demonstrate or visually represent different kinds of polygons and circles and how to compute their respective area, perimeter, and circumference.	
		 Design Specifications: 1) Enables the students to perform different kinds of shapes (like square, triangle, circle, etc.) using rubber bands. 2) On the top surface is the Square Geoboard with 25 guiding posts arranged 5 x 5 (forming a square) at 40mm distance apart between centers. 	
9		 3) On the bottom surface is the Circle Geoboard with 13 guiding posts. Twelve (12) of these guiding posts are arranged at 30° apart on a circle of 150mm diameter while the remaining one (1) guiding post is on the center of the said circle. 4) Made of plastic, color blue. 5) Board Dimensions (W x L): 200mm x 200mm (minimum) 	
		 6) Guiding post approximate Diameter: 6mm (minimum) 7) Guiding post approximate Height: 20mm (minimum) 8) Approximate Height of the Base (Edging Height): 25mm (minimum) 9) Board Thickness: 3-5mm 	
		 10) Comes with a plastic case with content description on its cover. 11) The surfaces and edges of the Geoboard and its Case must be smooth. 12) Comes with Instruction Manual in English. 13) Brand must be permanently printed on the case. Note: There must be no warping of the board and base. The 	
		Geoboard must be flat when laid on a table.	
	Geostrips	Functional Specifications: Used to make and represent different shapes. Performance Specifications: Must be able to show/demonstrate	
		different kinds of angles and shapes. Design Specifications: 1. The strips are made of plastic minimum of 1.8 mm thickness	
		and minimum of 18 mm wide in assorted colors with rounded ends; 2. Comes in various lengths ranging from 50 mm to 350 mm. Example: Red: Blue:	
10		Red.Bitle.a) Shortest: 93-94mma) Shortest: 124-125mmb) Shorter: 169-170mmb) Longest: 233-234mmc) Longest: 323-324mm	
		Yellow:White:a) Shortest: 150-151mma) Shortest: 175-176mmb) Longest: 283-284mmb) Longest: 233-234mm"3. They are designed to be fastened together with a plastic coatedbrads or plastic coated round head fasteners to form planegeometric figures.4. One (1) set consists of 68 strips, a minimum of 100 pieces	
		 4. One (1) set consists of 68 strips, a minimum of 100 pieces plastic coated brads and a protractor. 5. The set comes in a transparent plastic case for proper storage. 6. The items shall be free from toxic materials. 7. Brand must be permanently marked on the plastic case. 	

Choort Grid Functional Specifications: Used to aid classroom instructions Magretic expecially in graphical representations and as large structure, polynomial, histogram, normal curve, ce. 11 Performance Specifications: Must be able to move from one place to another and to clearly show illustrations that do not exceed from 1 neter vertically and 1 curve. 11 Design Specifications: Must be able to move from one place to another and to clearly show illustrations that do not exceed from 1 neter vertically and 1 curve. 11 Design Specifications: Must be able to move from one place to another and the clearly show illustrations that Specific from the specifications: 1. Mobile Magnetic Fainted Study. 1. Mobile Magnetic Check Grid Withebardt; Specifications: 1. Magnetic Fainted Stud; 1. Second Study				
Magnetic polynomial, finingram, formul curve, etc. Performance Specifications: Must be able to more from one paleer from 1 mater writerially and 1 writeably, guided with lines with 20mm spacing floribantially and vertically. 11 1. Mother Augnetic Gases With 20mm spacing floribantially and vertically. 11 1. Mother Augnetic Gases With 20mm spacing floribantially and vertically. 12 Design Specifications: Wather and the specification of the specification of the specification Parameter and the specification of the specification of the specification Parameter and the specification of the specification of the specification Parameter and property paled using alapping caroon. 12 Linking Cubes Performance Specifications: Used to assist with the understanding of maticmatic accorgns of maticmatic accorgns of maticmatic accorgns of maticmatic accorgns performance Specifications: Used to assist with the understanding of maticmatic accorgns of maticmatic accorgns of maticmatic accorgns performance specifications: 11 Linking Public the property radiation unit thest period maticmatic accorgns of colors with at least a minimum of 100 picces per color (2 comes with a least a minimum of 100 picces per color (2 comes with a basist materials. 5 Broad and the property paled with come the assembled or classembled without carts effort. 4) Shall be free front noise materials. 5 Broad and the property paled and polyhodrons. 9 Description of music particle accords and polyhodrons. 9 Description of music particle accords and polyhodrons. 9 Description of the specifications and polyhodrons. 9 Description of the specifications and polyhodrons. 9 Description of the specifications and polyhodrons. 9 Description of thesplet = 10-10.5 cm; Length				
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11 b another and to chardy show illustrations that do not exceed from 1 netry vericially and 1.2 m horizontally justed with lines with 20mm spacing (horizontally and vertically). 11 Design Specifications: 1. Mobile Magnetic Chost Grid Whiteheard; 2. Material Painted Steel; 3. Frame: Atominum, 1* edging 4. Surface Material: Magnetic Data 6. Full Dimensions: 74-757 W x 23-2410 x 60-70 H; 7. Fourd Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimensions: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimension: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimension: 74-757 W x 23-2410 x 9. Try style: Full Loght 7. To and Dimension: 1 Con x 1 cm with heriting of the style 7. Try style: Full Loght 7. To and Dimension: 1 Cm x 1 cm x 1 cm (minimum) 7. Material Specifications: 10 Linking plastic cubes 7. Conce with plastic transparent storage bucket with cover. 7. Conce with plastic transparent storage bucket with storage. 7. Conce with plastic transparent storage bucket with storage. 7. Conce with plastic transparent storage bucket with storage. 7. Conce with storage transparent storage bucket with storage. 7. Conce with a plastic transplast transplast transparent transplastic market and vere to 10.5			Performance Specifications: Must be able to move from one place	
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11 1. Mobile Magnetic Choos Grid Whiteboard; 2. Material: Magnetic Painted Steel; 3. Frame: Aluminum, 1° cliging; 3. Suffice Admerial: Magnetic Painted Steel; 5. Foul Dimensions: 74-757W x 23-247D; 5. Total Dimensions: 74-757W x 23-247D; 9. Foul Style: Full english 10. Costers: 4 picces, 2 inch casters, two with locking brakes; 11. 11. Must be properly packed using ablique garon. 11. 12. Linking Cubes The style: Full english 12. Design Specifications: Must be able to interlock together to build various shapes and structures. Design Specifications: 11. 13. Design Specifications: Univer domain assorted colors (5 colors with at least a minimum of 100 picces per color] 14. Numerical: Non-toxic plastic thart comes in assorted colors (5 colors with at least a minimum of 100 picces per color] 13. Dimension: I com x I cm (minimum) 14. S. Brand must be permanent packet with cover. 2. Orares with plastic transparent storage bucket with cover. 2. Dimension: I com x I cm (minimum) 1. Must be permanent polymon and polyhodrons. 2. Dimension: I com x I cm (minimum) 2. Dimension: I com x I cm (minimum) 3. Diadi trans			with 20mm spacing (horizontally and vertically).	
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13 Frame: Aluminum, 1" edging: 4. Surface Material: Magnetic Fainted Steel; 5. Grid Pattern 2" x 2", glois grid; 6. Full Dimensions: 72-73" x 4: 04-11 H; 5. Grid Pattern 2" x 2", glois grid; 7. For StyPic: Full length 9. For StyPic Full length 9. Tors StyPic: Full length 9. For StyPic Full length 10. Casters: 4 pieces, 2-inch casters, two with heleing brakes; 11. Must be properly packed using altipping carton. 11. Must be properly packed using altipping carton. Performance Specifications: Must he able to interlock together to build various shapes and structures 12 Design Specifications: 11 Linking plastic cubes: 12 Performance Specifications: Must he able to interlock together to build various shapes and structures 14 Design Specifications: 11 Juniting plastic cubes: 15 Design Specifications: Used to demonstrate relational genetication of portule structures 16 Design Specifications: Used to demonstrate relational genetications: Must he able to demonstrate relational derivation formula (aurica eara and volume) of polyhedrons. 17 Performance Specifications: Must he able to demonstrate relational genetications: Must he able to demonstrate relational genetications: Must he able to demonstrate relational genetications: Must he able to demonstrate relational derivation formula (aurica eara and volume) of polyhedrons. 17 <	11			
13 4. Surface Material: Magnetic Planted Steel; 5. Grid Pattern: 2'' × 2'', block spd; 6. Full Dimensions: 72-73 W × 40-9-70'H; 7. Board Dimensions: 72-73 W × 40-91'H; 8. Base Dimensions: 74-73 W × 23.24'D; 9. O. Selve Fullers; 10. C. Selve Fullers; 11. Must be properly packed using shipping caron. 11. Must be properly packed using shipping caron. 11. Must be properly packed using shipping caron. 12 Particional Specifications: Must be able to interlock together to build various shapes and structures 12 Design Specifications: 11. Must be properly packed using shipping caron. 12 Design Specifications: 11. Mustic plastic transparent storage bucket with cover. 13 Design Specifications: 11. Mustic plastic transparent storage bucket with cover. 14 Ball bere from toxic materials. 15 Functional Specifications: Must be able to demonstrate related without estra effort. 16 Bornetical Packetical Packetical estructure for connecting the cubes. 17 Barcetical Packetical Packetical estructure of plastic transparent storage bucket with cover. 18 Functional Specifications: Must be able to demonstrate geometrical relationships between polycons (2D) and polyhedrons. 19 Functional Paceficientions: Must be able to demonstrate geometrical relationships between polycons (2D) and polyhedrons. 19 Collapsible Performance Specidications: Must be able to demon				
13 5. Grid Pattern: 2" x 2", glots grid: 6. Pull Dimensions: 72-73" W x 43-24" bx 69-70"H; 7. Board Dimensions: 72-73" W x 40-41"H; 8. Fase Unmension: 72-73" W x 40-41"H; 9. Fase Unmension: 10-10" W x 10-41"H; 9. Fase Unmension: 10-41"H; 9.			4. Surface Material: Magnetic Painted Steel;	
13 7. Board Dimensions: 72-73" w 40-41"H; 8. Base Dimensions: 72-73" w 42-47D; 9. Tray Style: Full length 10. Casters: 4 pieces, 'inch casters, two with locking brakes; 11. Must be properly packed using shipping carton. Parterional Specifications: Used to assist with the understanding of mathematical concepts 9. Performance Specifications: Must be able to interlock together to build various shapes and structures 9. 11 Linking plastic cubes: a. Dimension: 1 em x 1 cm x 1 cm (minimum) b. Material: Non-toxic plastic that comes in assorted colors (5 colors with a tleast a minimum of 100 pieces per color) c. With interlocking feature for comecting the cubes: 30 Pierteinal feature for comecting the cubes: 3. 31 Bines is final feature for connecting the cubes: 3. 32 Pierteinal Specifications: Used to demonstrate relational geometric concepts brucket on the storage. Piertomance Specifications: Used to demonstrate relational (30) in terms of deriving formula on surface area and volume. Design Specifications: Nust be able to demonstrate relational (30) in terms of deriving formula on surface area and volume. 9. 10 Collapsible Performance Specifications: Must be able to demonstrate relational (30) in terms of deriving formula on surface area and volume. 11 Collapsible Performance Specifications: Must be able to			5. Grid Pattern: 2" x 2", ghots grid;	
13 8. Base Dimensions: 74-75 'W x 32-34'D; 9. Tray Style: Full length 10. Casters: 4 pieces, 2-inch casters, two with locking brakes; 11. Must be properly packed using shipping carton. Performance Specifications: Used to assist with the understanding of mathematical concepts Performance Specifications: Used to assist with the understanding of mathematical concepts Performance Specifications: All the understanding of the understandity of the understanding of the understanding of the u				
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13 c. With interlocking feature for connecting the cubes. 2) Comes with plastic transparent storage bucket with cover. 3) Fitting is push fit which can be assembled or disassembled without extra effort. 4) Shall be free from toxic materials. 5. Brand must be permanently marked on the storage. Functional Specifications: Used to demonstrate relational geometric concepts between polygons and polyhedtrons; aid Collapsible Performance Specifications: Used to demonstrate regometrical relationships between polygons (2D) and polyhedtrons. Performance Specifications: Design Specifications: 100 polyhedrons. (3D) in terms of deriving formula on surface area and volume. Design Specifications: 110 collapsible Basic 2D-3D Geometrical Solid Models include: (1) Collapsible Basic 2D-3D Geometrical Solid Models include: (2) Cube: 10-10.5cm; Base diameter = 10-10.5cm (2) Cube: 10-10.5cm (2) Cube: 10-10.5cm; Length of sides (Base) = 5-6cm (2) Hexagonal prism: Height = 10-10.5cm; Length of sides (Base) = 5-6cm (3) Pentagonal prism: Height = 10-10.5cm; Length of sides (Base) = 6-7cm (3) Pentagonal prism: Height = 10-10.5cm; Length of sides (Base) = 6-7cm (3) Suce represent: Height = 10-10.5cm; Length of sides (Base) = 6-7cm (3) Square prismi: Height = 10-10.5cm; Length of sides (Base) = 10-10.5cm; (3) Suce of each solids is made of plastic with rounded corners and edges, and 11 corresponding matching folding nets in 6 colours made (Base) = 6-7cm (3) Suce of each				
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13 Geometrical Collapsible geometric concepts between polygons and polyhedrons; aid derivation of formula (surface area and volume) of polyhedrons. 13 Performance Specifications: (3D) in terms of deriving formula on surface area and volume. Design Specifications: 1) Collapsible Basic 2D-3D Geometrical Solid Models include: a) Cube: 10-10.5cm x 10-10.5cm b) Cone: Height = 10-10.5cm; Base diameter = 10-10.5cm c) Cylinder: Height = 10-10.5cm; Base diameter = 10-10.5cm d) Hexagonal prism: Height = 10-10.5cm; Length of sides (Base) = 5-6cm e) Hexagonal prism: Height = 10-10.5cm; Length of sides (Base) = 6-7cm g) Pentagonal prism: Height = 10-10.5cm; Length of sides (Base) = 6-7cm h) Square prismid: Height = 10-10.5cm; Length of sides (Base) = 6-7cm h) Square prism: 10-10.5cm x 5-5.5cm x 5-5.5cm h) Square prism: 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prismic Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Triangular prismich Height = 10-10.5cm; Length of sides (Base) = 10-11cm; and k) Tr		N 11 D 1 0D	5. Brand must be permanently marked on the storage.	
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that can accomodate all the solids and the activity guide.				
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		7) Brand must be permanently printed on the case.	
	Model, Basic 3D	Functional Specifications: Used to represent basic three-	
	Geometrical Solids	dimensional figures.	
		Performance Specifications: Must be able to demonstrate geometrical concepts related to properties of geometrical solids.	
		Design Specifications: 1.) At least 17 types of Geometrical Solids which includes these core shapes:	
		 a) Cube: 10-10.5cm x 10-10.5cm x 10-10.5cm b) Cone: Height = 10-10.5cm; Base diameter = 10-10.5cm c) Cylinder: Height = 10-10.5cm; Base diameter = 10-10.5cm d) Hexagonal prism: Height = 10-10.5cm; Length of sides (Base) 	
		 = 5-6cm e) Hexagonal pyramid: Height = 10-10.5cm; Length of sides (Base) = 5-6cm f) Pentagonal prism: Height = 10cm; Length of sides (Base) = 6- 	
14		7cm g) Pentagonal pyramid: Height = 10-10.5cm; Length of sides (Base) = 6-7cm	
11		h) Rectangular prism: 10cm-10.5 x 5cm x 10cm-10.5 i) Square pyramid: Height = 10-10.5cm; Base diameter = 10- 10.5cm	
		j) Triangular prism: Height = 10-10.5cm; Length of sides (Base) = 10-11cm;and	
		 k) Triangular pyramid: Height = 10-10.5cm; Length of sides (Base) = 10-11cm l) Sphere: Diameter of Great Circle = 10-10.5cm 	
		 m) Semisphere: Diameter of Great Circle = 10-10.5mc-10.5m n) Square prism: 10-10.5cm x 5-5.5cm x 5-5.5cm o) Small cube: 5-5.5cm x 5-5.5cm x 5-5.5cm 	
		p) Small Triangular Prism: Height = 10-10.5cm; Length of sides (Base) = 5-6cm	
		 q) Small Cylinder: Height = 10cm; Base diameter = 5cm 3) Made of hard plastic 4) Comes in a transparent plastic container with cover to 	
		accommodate the 17 or more types of geometric solids. 5) Surface finish is smooth on all items.	
	Pattern Blocks, 250	6) Brand must be permanently printed on the case.Functional Specifications: Used to explore mathematical concpets,	
	pcs/set	including congruence, similarity, symmetry, area, perimeter, patterns, functions, fractions, and graphing	
		Performance Specifications: Used to demonstrate different kinds of polygons.	
15		Design Specifications: 1. One (1) set of pattern blocks contains a total of 250 pieces of six	
		geometrical shapes and six colors - 25 each of hexagons and squares; 50 each of trapezoids, triangles, parallelograms, and rhombi.	
		 Made of smooth surface plastic material. Minimum thickness: 5 mm Comes with a plastic transparent storage container with cover. 	
		5. The items shall be free from toxic materials.6. Brand must be permanently marked on the storage container.	
	Pentominoes	Performance Specifications: Must be able to demonstrate concepts pertaining to perimeter and area using the 12 kinds of 5-squared geometric shape.	
		Design Specifications: 1. Geometry puzzle consists of 12 pentominoes, each are made up of 5 equal-sided squares connected edge-to-edge. Dimension of	
16		square is 2.54cm x 2.54cm (minimum). 2. Twelve (12) pentominoes are classified as the letters F, I, L, N, P, T, U, V, W, X, Y, and Z; each are made up of sturdy plastic. Comes	
		in assorted colors that are free from toxic materials.3. Comes in set of 6 equivalent to 72 pieces (minimum) contained in a plastic storage box.	
1		4. Shall be free from toxic materials.	
		5. Brand must be permanently marked on the storage.	

	1			
		diameter, 200	Defense of the stime Meret he shines	
		pcs/set	Performance Specifications: Must be able to	
			demonstrate/represent set of numbers, skip counting and integers; perform fundamental operations on integers.	
			integers, periorini rundamentai operationo on integers.	
			Design Specifications:	
			1) Material: Hard Plastic	
			2) Minimum of 200 pieces per set (double-sided color)	
			3) Must have smooth surface and edges	
			4) Chip's diameter: 22mm (minimum)	
			5) Chip's thickness: 1mm (minimum)	
			6) Comes with a transparent plastic container with cover	
			7) Shall be free from toxic materials.8) Brand must be permanently marked on the item.	
		Probability Kit	Functional Specifications: A set of mathematical manipulative	
			used to demonstrate different concept-formation activities in	
			probability.	
			Performance Specifications: Must be able to demonstrate	
			probability concepts using cards, counters, dice, spinners, coins,	
			bills and/or combination of these mathematical manipulatives.	
			Design Specifications:	
			1. Demonstrate probability, random and selective sampling.	
			2. Class kit, at least 180 pcs in a box for large group or individual	
			learning.	
	18		Consist of the following:	
	10		a) 30 combination of activities and teacher demonstration on	
			cards	
			b) 52 pcs (1 set) playing cards	
			c) 9 pcs different spinners; d) 50 pcs coins;	
			e) 15 pcs polyhedral number dice;	
			f) 3 pcs dot dice;	
			g) 30 two-color (back-to-back) counters or red and yellow chips;	
			h) 5 pcs coin dice	
			i) 8 pcs number dice	
			3. Comes with transparent plastic container with cover.	
			4. Shall be free from toxic materials.	
		Tomerson and of 20	5. Brand must be permanently marked on the container.	
		Tangrams, set of 30	Functional Specifications: Used to introduce spatial relationships	
			Performance Specifications: Must be able to use as an aid in	
			developing mathematical concepts such as area, perimeter and	
			patterns.	
			Design Specifications:	
			1) Tangram includes seven geometric shapes made up of five	
			triangles (two small triangles, one medium triangle, and two large triangles), a square, and a parallelogram that are distinct in color.	
			2) The three different-size Tangram triangles are all similar, right	
			isosceles triangles. Thus, the triangles all have angles of 45°, 45°,	
			and 90° , and the corresponding sides of these triangles are	
	19		proportional.	
			3) All the angles of the Tangram pieces are multiples of 45—that	
			is, 45°, 90°, or 135°, and that the small Tangram triangle is the	
			unit of measure that can be used to compare the areas of the	
			Tangram pieces.	
			4) Material: Plastic that are free from toxic materials.5) The size of the largest square that the 7 tangram pieces can	
			form is 114×114 mm (minimum) with thickness of 7mm	
			(minimum).	
			6) In this set, there is at least 6 distinct color.	
			7) Comes with a sturdy plastic that stores set of 30 tangram (210	
			pieces) and free from toxic materials.	
			8) Shall be free from toxic materials.	
	35.4.00-		9) Brand must be permanently marked on the item.	
	MATH	EMATICAL TOOLS & II		
		Balance, Double-pan	Functional Specifications: Used to compare object masses.	
9			Performance Specifications: Must be able to measure mass of an	
	1		object up to 1000 grams.	
			Design Specifications:	

 Used for comparative weighing to determine the difference in mass between two (2) objects, the double-platform beam balance comes equipped with built-in sliding masses. Capacity: 2,000 grams Readability: 2 grams Readability: 2 grams Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g NTEP Resolution: 1 : 5,000 Platform size: Ø15-16 cm Platform type: Plate (metal) Dimensions (w x d x h): 35-37 cm x 24-26 cm x 17-19 cm 	
 comes equipped with built-in sliding masses. 2) Capacity: 2,000 grams 3) Readability: 2 grams 4) Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g 5) NTEP Resolution: 1 : 5,000 6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal) 	
 2) Capacity: 2,000 grams 3) Readability: 2 grams 4) Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g 5) NTEP Resolution: 1 : 5,000 6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal) 	
 3) Readability: 2 grams 4) Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g 5) NTEP Resolution: 1 : 5,000 6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal) 	
 4) Weigh Beam Capacity x Readability: 10 g x 0.1 g, 200 g x 10 g 5) NTEP Resolution: 1 : 5,000 6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal) 	
5) NTEP Resolution: 1 : 5,000 6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal)	
6) Platform size: Ø15-16 cm 7) Platform type: Plate (metal)	
7) Platform type: Plate (metal)	
9) Comes with four (4) Weights as follows:	
9.1) 1 pc. 1,000-gram Weight	
9.2) 1 pc. 500-gram Weight	
9.3) 1 pc. 200-gram Weight	
9.4) 1 pc. 100-gram Weight	
10) Comes with an Instruction Manual in English.	
11) Comes with a storage plastic case.	
12) Manufacturer of the country of origin shall issue certificate of	
calibration for every item.	
13) Brand must be permanently marked on the item.	
Blackboard Triangle, Functional Specifications: Used to demonstrate special traingles. 30° x 60° and 45° x	
45° Performance Specifications: Must be able to show relationship	
among sides and angles of special right triangles.	
Design Specifications:	
1. Material: Plastic, smooth, not flexible and with handle	
2. Permanent graduation markings in cm in all sides	
2 3. For 30° x 60°:	
Base: 50 cm minimum	
Thickness: 4 mm minimum	
4. For $45^{\circ} \ge 45^{\circ}$:	
Base: 50 cm minimum	
Thickness: 4 mm minimum	
5. Individually packed in a sturdy plastic bag with zipper	
6. The items shall be free from toxic materials.	
7. Brand must be permanently marked on the item.	
Calculator, Functional Specifications: Used to calculate, graph, and analyze	
Graphing, non- mathematical concepts that has been programmed to it as one of	
projectable its built-in functions.	
Performance Specifications: Must be able to store, calculate,	
display, graph, input, analyze and interpret data, simple and	
complex equations/formula, graphs and/or charts using easy	
access function menus/keys.	
Design Specifications:	
1. Non-projectable Graphing Calculator;	
2. Stores/calculates/displays input data, complex equations and	
formulas, graph and or chart;	
3. Ungradeable operating system. Softwares are accessible via	
3 internet and may be downloaded upon receipt of the unit and	
thereafter;	
4. Memory: 26 KB-RAM (minimum) and 450 KB-ROM (minimum);	
5. Display size: at least 8 lines x 16 characters per line;	
6. Seven (7) different graph styles for differentiating the look of	
each graph drawn;	
7. Easy access function menus;	
8. Readily connectable to Personal Computers (comes with	
connection accessories);	
9. Operates on dry cells. Comes with dry cells and ready to use;	
10. Comes with user's manual in English containing operation	
guide of the featured functions and in replacing the battery;	
11. Must operate as stated above and in the manual; and	
12. Brand must be permanently printed on the item.	
Calculator, Scientific Functional Specifications: Used to show mathematical	
Calculator, Scientific Functional Specifications: Used to show mathematical computations.	1
computations.	
4 Computations: Must be able to show correct	

		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, Logarithm 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;		
		4. Power requirement: two way dual (battery, built-in solar		
		system), the unit consistently operational after replacing the		
		battery for three trials, its solar system powers the unit normally		
		in a well lit room without the battery;		
		5. Brand must be permanently printed on the case.		
-	Digital Clock,	Functional Specifications: Used to show/display the time in		
	tabletop	numerals.		
	asiciop			
		Performance Specifications: Must be able to display hh:mm		
		format.		
5		Design Specifications:		
Ĭ		1. Font Height: 30mm to 40mm;		
		2. Dry Cell Battery operated		
		3. LCD display; With or wihout On/Off switch		
		4. Minimum Display: Time (hour, minutes & seconds);		
		5. Can be set in 12-hour setting;		
		6. The item shall be free from toxic materials;		
		7. Ready to use and comes with a new battery.		
	Measuring Kit	Functional Specifications: Used primarily to measure the volume		
	(Volume)	of liquid or bulk solid		
	(voranie)	of inquite of built bolice		
		Performance Specifications: Must be able to measure volume of		
		liquid using different types of measuring tools		
		Design Specifications:		
		1) Material: Plastic, translucent so that liquid inside can be seen		
		easily		
		2) Kit includes the following measuring tools:		
		a. Set of Measuring Jars:		
		i) 1 gallon/4000 mL		
		ii) 1/2 gallon/2000 mL		
		iii) 1 quart/1000 mL		
		iv) 1 pint/500 mL		
		v) 1 cup/250 mL		
		b. Set of measuring pitchers:		
		i) 1 quart = $32 \text{ oz}/1000 \text{ mL}$		
6		i) 1 quart = $32.02/1000$ mL		
0				
		iii) 1 cup = 8 oz/250 mL		
		c. Set of measuring cups:		
		i) 1 cup/236 mL		
		ii) 1/2 cup/118 mL		
		iii) 1/3 cup/79 mL		
		iv) 1/4 cup/59 mL		
		v) 1/8 cup/29.5 mL		
		d. Set of measuring spoons:		
		i) 1 Tbsp (15mL)		
		ii) $1/2$ Tbsp (7.5mL)		
		iii) 1 tsp (5mL)		
			1	
		1/2 tsp (2.5 mL)		
		iv) 1/2 tsp (2.5mL) v) 1/4 tsp (1.25mL)		
		v) 1/4 tsp (1.25mL)		
		v) 1/4 tsp (1.25mL)3) Features include both customary and metric measurement		
		 v) 1/4 tsp (1.25mL) 3) Features include both customary and metric measurement showing appropriate graduations in each kind of measuring tools. 		
		 v) 1/4 tsp (1.25mL) 3) Features include both customary and metric measurement showing appropriate graduations in each kind of measuring tools. 4) Permanent graduations and labels. 		
		 v) 1/4 tsp (1.25mL) 3) Features include both customary and metric measurement showing appropriate graduations in each kind of measuring tools. 4) Permanent graduations and labels. 5) Materials used shall be free from toxic materials. 		
	Meterstick	 v) 1/4 tsp (1.25mL) 3) Features include both customary and metric measurement showing appropriate graduations in each kind of measuring tools. 4) Permanent graduations and labels. 		

	1		1	
		Performance Specifications: Must be able to measure length of objects in flat surfaces up to 1,000mm in Metric and 39.37" in		
		English standards of measurement.		
		Design Specifications: 1. Material: Plastic; 2. Thickness: 6 mm (minimum);		
		3. Width: 24 mm (minimum);		
		4. Length: 1,005 mm (minimum);5. The front is scaled in centimeters, numbered in every		
		centimeter with 0.1 cm (or 1 mm) divisions;		
		6. The back is scaled in inches, numbered in every inch with 1/8 inch divisions;		
		7. The numbers and division lines are in dark color;8. Must be straight and flat; and free from toxic materials;		
		9. Edges and Surfaces should be smooth and even;		
		10. Comes with plastic jacket;11. Standard abbreviation of the measurement unit/s must be		
	Destruction starfort	followed.		
	Protractor, student- type	Functional Specifications: Used to measure angles in degrees.		
		Performance Specifications: Must be able to draw/construct and measure angles and arcs up to 180°.		
		Design Specifications: 1. Protractor, student-type, plastic, transparent, semi-circular,		
		180°; 2. Ø150mm (or 75mm radius), 1mm thick (minimum);		
8		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;		
		6. Plastic Surface Finish: Smooth, clear, and free from scratches;		
		7. It must be horizontally level when laid flat on a table - no warping;		
		8. Comes with a plastic case; and shall be free from toxic materials.		
	Ruler, Plastic, 12 inches/30 cm	Functional Specifications: Used to measure length and draw straight lines		
		Performance Specifications: Must be able to measure length of objects in flat surfaces up to 30cm in Metric and 12" in English standards of measurement.		
		Design Specifications:		
		1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum);		
9		2. Width x Length: 28 mm x 314 mm (minimum);		
		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 1mm graduation. *English graduations are in inches, from 0 inches to 12		
		inches, with every inch subdivided by 1/16 graduation.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; and6. The item shall be free from toxic materials.		
	Scale, Spring, Hanging type	Functional Specifications: Used to measure weight or force by hanging objects		
		Performance Specifications: Must be able to measure mass of an object up to 1,000 grams.		
10		Design Specifications:		
10		 Maximum Capacity: 25 kilograms Must conform with industry standard graduations for rated 		
		capacity.		
		3. Color: Any Color4. Comes with an Instruction Manual in English		
		5. Manufacturer of the country of origin should issue certificate of		
		calibration for every item.	<u> </u>	

	a 1 W. · 1 ·	6. Brand must be permanently printed on the item.	
	Scale, Weighing, analog, 10 kg. capacity	Functional Specifications: Used to measure weight and/or mass of an object	
	cupacity	Performance Specifications: Must be able to measure mass of an object up to 10 kilograms.	
11		 Design Specifications: 1. Weighing Scale, 10 kg. Capacity, starting from zero (0) to 10kg. 2. Dual mode English/metric display that displays weight in pounds and grams. 3. Has a large round dial display for easy use. 4. Includes a removable stainless steel bowl which is dishwasher safe. This weighing scale is a classic rotary dial mechanical 	
		kitchen scale 5. Color: Any Color 6. Format: Mechanical kitchen scale 7. Mechanism Type: Spring Lever 8. Measurement units: Pounds/Kilograms 9. Display Type: Round speedometer type dial	
		 10. Scale Size: 210mm Width (minimum) x 235mm Height (minimum) 11. Dial Increments: 1 oz. / 50 g. 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Brand must be permanently marked on the item. 	
	Scale, Weighing, bathroom-type	Functional Specifications: Used to measure a person's weight	
	51	Performance Specifications: Must be able to measure weight from 0 to 120 kg	
		Design Specifications: 1) Mechanical Dual Reading lbs/kg bathroom scales (analog) 2) Comes with a free Body Mass Index Chart printed and laminated on glossy paper (Font Height: 1 cm. minimum, Style:	
12		 Century Gothic or Arial) 3) Maximum Capacity: 120 kgs/264 lbs 4) With two years warranty 5) Should be made of metal and plastic combination with powder coating finish for metal parts. 6) Will remain stable when steps on it. 7) Manufacturer of the country of origin should issue certificate of 	
		calibration for every item.8) The item should be free from toxic materials.9) Brand must be permanently marked on the item.	
	Stopwatch, digital	Functional Specifications: Used to show time elapse in hours, minutes, seconds.	
		Performance Specifications: Must be able to show time elapsed in hours, minutes and seconds.	
13		 Design Specifications: 1. Digital type, water-resistant (5-bar) 2. Start, stop, and re-set operations 3. Display Number: 4mm W x 10mm H (minimum) 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. Overall W x H x T: 60-61mm x 67-68mm x 20-21mm 9. Ready to use and comes with extra batteries. 	
	Tape Measure, 1.5 meters	Functional Specifications: Used to quantify the size of an object or the distance between objects Performance Specifications: Must be able to measure	
		size/distance of an object up to 1.5 meters.	
14		 Design Specifications: 1. Tape Measure, 12 mm width x 1.5 meter long (minimum) 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 in mm, on the opposite side in 1/16 of an 	

			5 Comes with a plastic case	
1		Template, shapes	5. Comes with a plastic case. Functional Specifications: Used to scaffold drawing of basic	
		Template, snapes	geometrical shapes.	
			geometrical shapes.	
			Performance Specifications: Must be able to aid drawing different	
			geometrical shapes.	
			Design Specifications:	
	15		1. A transparent plastic template; minimum of 24 geometric	
			shapes Note: The kinds of geometric shapes approved during post	
			qualification shall be the same shapes to be approved during the	
			pre-delivery inspection.	
			2. Ideal for drawing geometric shapes.	
			3. Minimum dimensions: 14 cm x 20 cm	
			4. Minimum thickness: 2 mm	
			5. The items shall be free from toxic materials.	
		Thermometer,	Functional Specifications: Used to determine human body	
		Clinical, digital	temperature.	
			Performance Specifications: Must be able to measure body	
			temperature digitally.	
			temperature algitally.	
	16		Design Specifications:	
	16		1. Clinical Thermometer, for armpit use	
			2. With yellow or white background, nice looking and easy reading	
			3. Temperature range: 35°C - 42°C and 94°F - 108°F (dual scale)	
			4. Accuracy: 0.1°C and 0.2°F	
			5. Length: 105mm (minimum) - 115mm (maximum) 6. With plastic tube case	
			7. Brand must be permanently marked on the item.	
	MODE	ELS: EARTH AND OTH	ER HEAVENLY BODIES	
		Globe, Celestial	Functional Specifications: Used to illustrate the relative locations	
			of observable celestial objects with respect to the earth in the	
			celestial sphere (celestial sphere is what we commonly called sky)	
			Performance Specifications: Should be able to illustrate the	
			relative locations of observable celestial objects with respect to the earth in the celestial sphere (celestial sphere is what we commonly	
			called sky)	
			culeu sky)	
			Design Specifications:	
			1. Star Globe; diameter 11.875-12.125 inches, transparent plastic	
			0. Each retated independently. The star man charge principal stars	
			2. Each rotates independently. The star map shows principal stars	
			to the 5th magnitude, names of major stars and constellations,	
1			to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale.	
			to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the	
			to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation	
			to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the	
			 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 	
			 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student Activity. 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student Activity. b. Guide on Using the Model c. Student Activity Sheet and Teacher's Guide 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student Activity. b. Guide on Using the Model c. Student Activity Sheet and Teacher's Guide 9. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall 	
10	1		 to the 5th magnitude, names of major stars and constellations, and includes the ecliptic, right ascension and declination scale. 3. Must include Names of Months and Days Scales around the globe for easy reference of constellation 4. All labels permanently marked on the item 5. The horizon mounting allows the Globe to be set for any location. 6. Globe is supported on a cradle base made of hard/tough plastic. 7. The Nine Dash Line should not appear. 8. With English User's Manual includes: a. on the Guide on Using the Model and Sample Student Activity. b. Guide on Using the Model c. Student Activity Sheet and Teacher's Guide 9. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall contain the following: 	
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			1	
		c. Shall have a High-Definition resolution of at least 1080p.		
		d. Shall have a readable subtitle (font style & size: Arial, 22		
		Bold) in English that is grammatically error-free and with		
		correct spelling and punctuation marks and in sync with a		
		voiceover/narration. There is an ON/OFF option for subtitle.		
		e. Shall comply an aspect ratio of 4:3.		
		f. Shall have a cover video pane containing the equipment		
		name and a video pane for each video content.		
		g. The video, voiceover (audio), and subtitle shall be in sync.		
		h. The training video shall cover all the above requirement		
		(video contents).		
		10. Brand must be permanently marked on the item.		
	Globe, Terrestrial	Functional Specifications: Used to represent the earth in three		
	Globe, Terrestriar	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:		
		1. Globe diameter: 11.875-12.125 inches		
		2. 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		
2		(d) Lines of Latitudes (0°to 90°), graduated both in Northern		
		and Southern Latitudes and Longitudes (0° to 180°), graduated		
		both in Eastern and Western Longitudes		
		(e) International Date Line, Arctic Circle, Tropic of Cancer,		
		Tropic of Capricorn and Antarctic Circle		
		(f) Lines of Equator and Prime Meridian		
		(g) Names of mountain, mountain ranges, volcano, ocean		
		floors, gulfs, seas and lakes		
		(h) Names of continents, seas and country boundaries should		
		be according to international standard.		
		(i) Philippine territory emphasizing the "West Philippine Sea" as		
		one of the Philippine territorial sea boundaries.		
		(j) The Nine Dashed Line should not appear.		
		3. The globe which is made of plastic is mounted on a plastic		
		meridian ring (C-shape) with movable magnifier.		
		4. The base stand is made of hard/tough plastic.		
		5. Brand must be permanently marked on the item.		
	I an dfamma			
	Landform	Functional Specifications: Used to represent the different		
	Demonstration Kit	landforms on the earth's surface in three-dimensions		
		Performance Specifications: Should be able to to represent the		
		different landforms on the earth's surface in three-dimensions		
		Design Specifications:		
1		1. Watertight demonstration tray 19.875-20.125 inches x 4.125-		
		4.375 inches x 1.875-2.125inches		
		2. Three pieces of flexible colored foam		
3				
		3. Three pieces fault structures		
		a. Made of 6 colored layer of rubber or plastic		
		b. Dimension: 12.875-13.125 inches x 4.625-4.875 inches x		
		3.375-3.625 inches		
		c. can demonstrates normal, reverse and slide slip fault		
		4. Erupting 5.0 inches x 5.0 inches volcano for demonstration		
		5. With English User's Manual that includes Guide on how to		
		assemble and use the model.		
1		6. For geological study		
		7. Must be branded and must be permanently marked on the item		
	Model Death Later 1		<u> </u>	
	Model, Earth Internal	Functional Specifications: Used to illustrate the external and		
	Structure, 1/4 part	internal parts of the earth in three dimensions		
	detachable			
		Performance Specifications: Should be able to illustrate the		
4		external and internal parts of the earth in three dimensions		
		-		
		Design Specifications:		
1		1. Globe diameter: 11.875-12.125 inches inches		
		1 1, 31930 and motor, 11,0;0 12,120 monto monto		
		2. Shows the countries and ocean		

		1		
		3. 1/4 part detachable and shows the different layer		
		4. Must have correct permanent makings of the following parts as		
		follows:		
		a. Crust b. Mantle		
		c. Outer Core		
		d. Lower Core		
		5. Made of plastic		
		6. The base stand is made of hard/tough plastic.		
		7. The removable parts must be intact and not falling.		
		8. The Nine Dash Line should not appear.		
		9. Must be branded and permanently marked in the item.		
	Model, Seismograph	Functional Specifications: Used to demonstrate how a		
		seismograph records earthquakes and their comparative strengths		
		Performance Specifications: Should be able to demonstrate how a		
		seismograph records earthquakes and their comparative		
		strengths, specifically:		
		1. The recording pen is attached to a weight suspended from a		
		support that is connected to a metal base stand.		
		2. The support moves with the vibrations & the pen records on a		
		recording paper as the paper is manually pulled through a metal		
		frame		
	5	3. Earthquakes are simulated by vibrating the table on which the model is mounted.		
	5	model is mounted.		
		Design Specifications:		
		1. Consist of a roll of recording paper (63-65 mm wide) with		
		mounting, recording pens, suspended weight, support with a		
		painted metal base stand, recording frame, and table clamp		
		(opening-63-65 mm). The metal stand rod (320-325 mm long) and		
		metal support are chrome-plated. The metal frame is of galvanized		
		iron sheet.		
		2. Base dimensions : 293-295mm x 152-155mm x 23-25mm		
		3. With English User's manual that includes the operation and		
		guide on how to assemble the model.		
		4. Brand must be permanently marked in the item.		
	Model, Solar System	Functional Specifications: Used to show the sun and the eight (8)		
		major planets of the solar system in three dimensions, in correct		
		order from the nearest to the farthest from the sun		
		Performance Specifications: Should be able to show the sun and		
		the eight (8) major planets of the solar system in three		
		dimensions, in correct order from the nearest to the farthest from		
		the sun		
	~			
	б	Design Specifications:		
		1. shows the eight (8) major planets of the solar system namely: a)		
		Mercury, b) Venus, c) Earth, d) Mars, e) Jupiter, f) Saturn, g)		
		Uranus, and h) Neptune with each planet color code and shaded		
		correctly 2. each planet can be manually operated to revolve around sun		
		3. Dimensions: Sun: 5.875-6"-diameter, Total dimension: height		
		13.875-14 inches; length 20.875-21 inches, plated steel arm		
		4. Sun made of plastic material, support base made of metal		
		5. Must be branded and permanently marked on the item		
	Model, Sun Internal	Functional Specifications: Used to illustrate the external and		
	Structure, 1/4 part	internal parts of the sun in three dimensions		
	detachable			
		Performance Specifications: Should be able to illustrate the		
		external and internal parts of the sun in three dimensions		
		Design Specifications:		
		1. Model diameter: of 11.875-12 inches		
,	7	2. 1/4 part detachable and shows the different layer		
		3. Must have correct permanent markings of the following parts as		
		follows:		
		a. Core		
		b. Radiation Zone		
		c. Convection Zone		
		d. Chromosphere e. Photosphere		
1				
		f. Prominence g. Sunspots		

		4. The layers of the model should be correctly labelled with		
		permanent markings, not sticker.		
		5. Made of Plastic		
		6. The base stand is made of hard/tough plastic.		
		7. The removable parts must be intact and not falling.		
	Madal Oran Eauth	8. Must be branded and permanently marked on the item.		
	Model, Sun-Earth-	Functional Specifications: Used to show the relative locations of		
	Moon	the sun, the earth and the moon three dimensions, and the		
		synchrous revolutions of the moon around the earth and the earth's revolution around the sun		
		Performance Specifications: Should be able to show the relative		
		locations of the sun, the earth and the moon three dimensions,		
		and the synchrous revolutions of the moon around the earth and		
		the earth's revolution around the sun		
		Design Specifications:		
8		1. Hand-operated gear drive that moves the Earth and moon in		
0		relation to the Sun. Shows the Earth's rotation, revolution, day		
		and night, tilt of its axis, phases and eclipses of the Moon.		
		Supported by a sturdy base and chrome-plated steel parts		
		2. Sun's sphere is illuminated with hole to focus a beam of light		
		always to the globe; also indicates the month and phase of the moon in relation to the sun.		
		3. All spheres (Sun, Earth, Moon) made of plastic; sizes must		
		reflect relative differences of sizes between Sun, Moon, and Earth.		
		Sun's diameter 5.875-6 inches.		
		4. The Nine Dash Line should not appear.		
		5. With English User's Manual that includes operation guide and		
		guide on how to replace the bulb in the model		
	Model, Tectonics	Functional Specifications: Used to simulate tectonic processes		
	Demonstrator			
		Performance Specifications: Should be able to simulate tectonic		
		processes		
		Desime Seccifications		
		Design Specifications: 1. Tectonic container dimensions:		
		Length Range: 10 range -13 inches		
		Width Range: 6 range -8 inches		
		Height Range: 3 range - 5 inches		
		Shape: Rectangular		
		2. The model contains the following:		
9		a. Two pieces L-shaped plastic plates with screw type long		
9		push handles		
		b. One piece Rectangular / Square plastic plates with screw		
		type short push handle used to flatten the sand inside the		
		tectonic container.		
		c. 12 pieces of washers		
		d. 12 pieces of nuts e. Includes 1 kilogram yellow sand and 1 kilogram green sand.		
		3. With English User's Manual that includes		
		a. Operation Guide		
		b. Guide on how to assemble the model.		
		c. Guide on how to use the model with pictures		
		d. Student Activity Sheets		
		6. Must be branded and must be permanently marked on the item		
	Model, Volcano,	Functional Specifications: Used to illustrate the major external		
	cross section	and internal parts of a volcano in three dimensions		
		Performance Specifications: Should be able to represent the major		
		external and internal parts of a volcano in three dimensions		
		Design Specifications:		
		1. Dimensions: 10-12 inches diameter x 10-12 inches height		
10		2. The parts of the volcano correctly named: Sill, Strata, Dike,		
		Crust, Magma Chamber, Upper Mantle, Lower Mantle, and Vent;		
		permanently marked on the item		
		3. Detailed cross-section shows the inside of the volcano		
		4. With removable red tube		
		5. With 12.5-13 inches clear, circular, plastic tray which fit in the		
		entire model		
		6. It simulates the volcano eruption		
		7. Easy to clean and reusable.	1	

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		8. With English Users' Manual that includes operation guide with		
		easy-to-prepare lava recipe		
	Rock Samples, 24 pcs/set, (minerals of	9. Must be branded and permanently marked on the item Functional Specifications: Used to show actual samples of most common rocks found on the earth's crust		
	3 rock types)	Performance Specifications: Should be able to show actual samples of most common rocks found on the earth's crust		
		Design Specifications:		
		 Samples/references for in identifying and classifying rocks Boxed mineral and rock collection. Should have at least 24 samples comprising minerals: 8 types igneous, 8 types 		
11		 sedimentary, and 8 types metamorphic rocks. There should be colored pictures of the rocks for reference. 3. Rock size: 8 cm3 -20cm3 (8 mL - 20mL by water displacement) 		
		4. Rock should be placed in a plastic packing and properly labelled with its name.		
		5. Samples are individually bagged in appropriate size transparent plastic and numbered and correspond to the description in the lid of the box. Each rock name should be accompanied with rock		
		type, Example: "Basalt" (igneous)6. The box is made of sturdy plastic, compartmentalized for each sample		
		7. Made up of non-toxic material, free from any sharp edges.8. Brand permanently marked on the container box		
	Telescope, Astronomical (Reflecting)	Functional Specifications: Used to enhance the appearance of details of celestial objects not visible to the unaided eye		
		Performance Specifications: Should be able to enhance the appearance of details of celestial objects not visible to the unaided eye		
		Design Specifications:		
		 Equatorial Reflector Telescope Features a) 112-114mm Aperture b) Focal Length: 900-1000 mm 		
		c) Rack-and-Pinion Focuser d) Equatorial Mount with manual control cables e) Setting Circles		
		f) Latitude Control with Scale g) Two Eyepieces - 8.5-9.5mm and 23-27mm diameter each, multi coated		
		h) Tripod i. Maximum Height: 125 cm		
		ii. Adjustable-height iii. Aluminum-alloy legs iv. Tray to hold eyepieces, lights, and accessories		
12		v. Spiked feet add stability on uneven/soft ground 2. With English User's Manual that includes Operation Guide and Guide on how to assemble the model.		
		 With permanent marking at the bottom of each eyepiece stating the model, focal length, and diameter. Comes with a training video that shows the actual equipment 		
		submitted and approved during the sample evaluation and shall contain the following:		
		I. Training Video Contents: a. Name of the equipment b. Parts of the equipment		
		c. Instruction on how to use the equipmentd. Sample Experiment/Activity using the equipmente. Maintenance of the equipment		
		f. Troubleshooting g. Storage and safekeeping (include cleaning) of the equipment		
		II. Training Video details: a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive.		
		c. Shall have a High-Definition resolution of at least 1080p. d. Shall have a readable subtitle (font style & size: Arial, 22		
		Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle.		
		e. Shall comply an aspect ratio of 4:3.		l

f. Shall have a cover video pane containing the equipment name and a video pane for each video content. g. The video, voiceover (audio), and subtite shall be in sync. h. The training video shall cover all the above requirement (video contents). 5. Must be branded and permanently marked on the item MODELS: THE HUMAN ANATOMY Model, Human Brain Functional Specifications: Used to demonstrate the anatomy of the brain. Performance Specifications: Must be able to illustrate the parts and functions of the sense organs of the human body, specifically the brain. Design Specifications: 1. Life-size, made of non-toxic plastic material (Certificate of non-toxicity is required) 2. With plastic dowels or magnets that interconnect the part components. 3. The model can be disassembled into 8 parts: a. 4 cerebrum parts (right and left); b. 2 brain stem parts (right and left) c. 3 cerebellum parts (right and left) c. 3 corebult parts (right and left) c. 3 core built parts (right and left) c. Shows Thalamus, Pituitary gland, Hypothalamus and Pons 5. Color markings on the brain model illustrate arteries (red) and veins (blue), cranial nerves (yellow), along with the cortex (pink) 	
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Model, Human BrainFunctional Specifications: Used to demonstrate the anatomy of the brain.Performance Specifications: Must be able to illustrate the parts and functions of the sense organs of the human body, specifically the brain.Design Specifications: 1. Life-size, made of non-toxic plastic material (Certificate of non- toxicity is required) 2. With plastic dowels or magnets that interconnect the part components. 3. The model can be disassembled into 8 parts: a. 4 cerebrum parts (temporal, occipital lobes, frontal and parietal lobes); b. 2 brain stem parts (right and left); c. 2 cerebellum parts (right and left) 4. Shows Thalamus, Pituitary gland, Hypothalamus and Pons 5. Color markings on the brain model illustrate arteries (red) and veins (blue), cranial nerves (yellow), along with the cortex (pink)	
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5. Color markings on the brain model illustrate arteries (red) and veins (blue), cranial nerves (yellow), along with the cortex (pink)	
veins (blue), cranial nerves (yellow), along with the cortex (pink)	
and medulla fiber (white)	
6. The model is washable, free from any label and sharp parts.	
7. Paint shall be permanent and not be removed when washed	
with soan and water	
1 8. With name of the model: HUMAN BRAIN MODEL (Font style:	
Arial, Font size: 28, UPPERCASE, BOLD) permanently marked on	
the base.	
9. The model rests in a plastic base. 10. Dimension (minimum): 18 cm x 14 cm x 13 cm	
11. Safely packed in a box.	
12. Comes with a plastic laminated key card that shall contain the	
actual-colored picture of the model including the name and	
11 labeled with the required parts.	
13. Key card details:	
a. A4 size copy paper b. Margin of 1/2 inch on all sides; with 2 pt width border line	
c. Layout Orientation: Landscape	
d. Lamination thickness: minimum 0.30 mm	
e.Title: HUMAN BRAIN MODEL KEY CARD shall be placed at the	
top-center (Font style: Arial, Font Size: 28, UPPERCASE, BOLD)	
f. The model picture in white background shall be big enough to	
occupy the center part of the card . g. Labels shall be without frame (Font style: Arial, Font size: 14,	
First letter of the label is capitalized).	
h. Line with arrowhead of 1.25 pt width shall point to the	
specific part being labeled.	
14. Must be branded and brand new. The brand shall be	
permanently marked on the base.	
Model, Human Functional Specifications: Used to show details of blood flow. Circulatory System	
Performance Specifications: Must be able to illustrate how the	
respiratory and circulatory systems work together to transport	
nutrients, gases, and other molecules to and from the different	
parts of the body;	
Design Specifications:	
Design Specifications: 1. Life-size, colored relief model.	
2 2. Frontal plane is cutaway so blood circulation can be traced to	
the major organs and extremities.	
3. Made of non-toxic plastic material (Certificate of non-toxicity is	
required)	
4. With arterial system: aorta artery, brachial artery, iliac artery, renal artery, mesenteric artery, pulmonary artery, carotid artery,	
tibial artery, femoral artery, palmar digital artery, ulnar artery,	
radial artery, popliteal artery, subclavian artery	
5. With venous system: basilic vein, renal vein, iliac vein,	
pulmonary vein, femoral vein, popliteal vein, brachial vein,	

			subclavian vein, palmar digital vein, tibial vein, dorsal venous	
			arch, superior vena cava and inferior vena cava 6. With heart, lung, liver, spleen, kidneys, partial skeleton	
			7. The model is washable and must be free from any labels.	
			8. Paint shall be permanent and not be removed when washed	
			with soap and water.	
			9. With name of the model: HUMAN CIRCULATORY SYSTEM	
			MODEL (Font style: Arial, Font size: 32, UPPERCASE, BOLD)	
			permanently marked on the baseboard.	
			10. With no sharp parts and defects.	
			11. Mounted on a stable baseboard.	
			12. Dimensions (minimum): 80cm H x 30cm L x 5cm W 13. Safely packed in a box	
			14. Comes with a plastic laminated key card that shall contain the	
			actual-colored picture of the model including the name and	
			labeled with the required parts.	
			15. Key card details:	
			a. A4 size copy paper	
			b. Margin of $1/2$ inch on all sides; with 2 pt width border line	
			c. Layout Orientation: Portrait	
			d. Lamination thickness: minimum 0.30mm e. Title: HUMAN CIRCULATORY SYSTEM MODEL KEY CARD	
			shall be placed at the top-center (Font style: Arial, Font Size:	
			24, UPPERCASE, BOLD)	
			f. The model picture in white background shall be big enough to	
			occupy the center part of the card.	
			g. Labels shall be without frame (Font style: Arial, Font size: 12,	
			First letter of the label is capitalized,)	
			h. Line with arrowhead of 1.25 pt width shall point to the	
			specific part being labeled	
			16. Must be branded and brand new. The brand shall be permanently marked on the baseboard.	
		Model, Human Ear	Functional Specifications: Used to study the anatomy of the	
		would, muman Dai	Human Ear.	
			Performance Specifications: Must be able to show the parts of the	
			sense organs of the human body, specifically the human ear.	
			Design Specifications:	
			1. Dissectible into 4-6 parts	
			 Colorful 3D model made of plastic material Features: Outer ear, middle ear, inner ear, pinna, auditory 	
			canal, eardrum (tympanic membrane), vestibulocochlear nerve,	
			semicircular canal, cochlea, Eustachian tube, including a	
			removable hammer, anvil, and stirrup	
			4. Made of non- toxic plastic material (Certificate of non-toxicity is	
			required)	
			5. The model is washable, free from any label and sharp parts.	
			6. Paint shall be permanent and not be removed when washed	
			with soap and water.	
			7. With name of the model: HUMAN EAR MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on	
	_		the base.	
	3		8. Mounted on a stable base	
			9. Dimensions (minimum): 33 cm L x 23 cm H x 20 cm W	
			10. Safely packed in a box	
			11. Comes with a plastic laminated key card that shall contain the	
			actual-colored picture of the model including the name and	
			labeled with the required parts.	
			12. Key card details:	
			a. A4 size copy paper b. Margin of 1/2 inch on all sides; with 2 pt width border line	
			c. Layout Orientation: Landscape	
			d. Lamination thickness: minimum 0.30 mm	
			e. Title: HUMAN EAR MODEL KEY CARD shall be placed at the	
			top-center (Font style: Arial, Font Size: 32, UPPERCASE, BOLD)	
			f. The model picture in white background shall be big enough to	
1 1			occupy the center part of the card.	
1 1				
			g. Labels shall be without frame (Font style: Arial, Font size: 12,	
			g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized)	
			g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized)h. Line with arrowhead of 1.25 pt width shall point to the	
			 g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized) h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled 	
			g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized)h. Line with arrowhead of 1.25 pt width shall point to the	

	Model, Human	Functional Specifications: Used to study the anatomy of the	
	Endocrine System	Human Ear.	
		Performance Specifications: Must be able to show the parts of the sense organs of the human body, specifically the human ear.	
4		 Design Specifications: 1. Dissectible into 4-6 parts 2. Colorful 3D model made of plastic material 3. Features: Outer ear, middle ear, inner ear, pinna, auditory canal, eardrum (tympanic membrane), vestibulocochlear nerve, semicircular canal, cochlea, Eustachian tube, including a removable hammer, anvil, and stirrup 4. Made of non- toxic plastic material (Certificate of non-toxicity is required) 5. The model is washable, free from any label and sharp parts. 6. Paint shall be permanent and not be removed when washed with soap and water. 7. With name of the model: HUMAN EAR MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the base. 	
4		 8. Mounted on a stable base 9. Dimensions (minimum): 33 cm L x 23 cm H x 20 cm W 10. Safely packed in a box 11. Comes with a plastic laminated key card that shall contain the actual-colored picture of the model including the name and labeled with the required parts. 12. Key card details: a. A4 size copy paper 	
		 a. A4 size copy paper b. Margin of 1/2 inch on all sides; with 2 pt width border line c. Layout Orientation: Landscape d. Lamination thickness: minimum 0.30 mm e. Title: HUMAN EAR MODEL KEY CARD shall be placed at the top-center (Font style: Arial, Font Size: 32, UPPERCASE, BOLD) f. The model picture in white background shall be big enough to occupy the center part of the card. g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized) h. Line with arrowhead of 1.25 pt width shall point to the 	
		specific part being labeled13. Must be branded and brand new. The brand shall be permanently marked on the base.	
	Model, Human Eye, 6 parts	Functional Specifications: Used to demonstrate the anatomy of the eye.	
5		 Performance Specifications: Must be able to show the parts of the sense organs of the human body, specifically the human eye. Design Specifications: 3D Model made of non-toxic plastic material (Certificate of non-toxicity is required) With six (6) removable colored parts sectioned horizontally: a. Two halves of the sclera with cornea and eye muscle attachments b. Both halves of the choroid with iris and retina c. Lens d. Vitreous body/humour Features: sclera, iris, cornea, pupil, lens, ciliary body and muscle, conjunctiva, retina, optic nerve, retinal blood vessels, vitreous body The model is washable, free from any label, sharp parts and defects. Paint shall be permanent and not be removed when washed with soap and water. 	
		 6. With name of the model: HUMAN EYE MODEL (Font style: Arial, Font size: 28, UPPERCASE, BOLD) permanently marked on the base. 7. Mounted on one post stand with a stable base 8. Dimensions (minimum): 13 cm L x 13 cm W x 22 cm H 9. Safely packed in a box 10. Comes with a plastic laminated key card that shall contain the actual-colored picture of the model including the name; labeled with the required parts 	

11. Key card details:a. A4 size copy paperb. Margin of 1/2 inch on all sides; with 2 pt width border line	
b. Margin of $1/2$ inch on all sides; with 2 pt width border line	
a Lavraut Originatation, Landssona	
c. Layout Orientation: Landscape d. Lamination thickness: minimum 0.30 mm	
e. Title: HUMAN EYE MODEL KEY CARD shall be placed at the	
top-center (Font style: Arial, Font Size: 32, UPPERCASE,	
BOLD)	
f. The model picture in white background shall be big enough	
to occupy the center part of the card.	
g. Labels shall be without frame (Font style: Arial, Font size:	
12, First letter of the label is capitalized).	
h. Line with arrowhead of 1.25 pt width shall point to the	
specific part being labeled.	
i. Shall contain information in American English on how to	
assemble and disassemble the model. This shall occupy at the	
back part of the key card provided the prints are not visible to the other side.	
12. Must be branded and brand new. The brand shall be	
permanently marked on the base.	
Model, Human Functional Specifications: Used to illustrate the schematic	
Nervous System representation of the central and peripheral nervous system.	
Performance Specifications: Must be able to show the complex	
network of nerve cells and the motor nerves pathways.	
Design Specifications:	
1. One-half life-size, colored, relief model made of non-toxic	
plastic material (Certificate of non-toxicity is required).	
2. The model shows the structure of the nervous system (brain, cerebrum, cerebellum, spinal cord, radial nerve, ulnar nerve,	
median nerve, lumbar plexus, femoral nerve, sacral plexus, sciatic	
nerve, brachial plexus, intercostal nerve, common peroneal nerve,	
tibial nerve, saphenous nerve, finger nerve and toe nerve).	
3. The pathway of the main nerves is well illustrated in relation to	
the skeleton.	
4. The model is washable, free from any label, sharp parts and	
defects.	
5. Paint shall be permanent and not be removed when washed	
with soap and water.	
6. With name of the model: HUMAN NERVOUS SYSTEM MODEL	
(Font style: Arial, Font size: 30, UPPERCASE, BOLD) permanently	
6 marked on the base. 7. Mounted on a stable baseboard.	
8. Dimensions (minimum): 80cm H x 30cm L x 5 cm W	
9. Safely packed in a box.	
10. Comes with a plastic laminated key card that shall contain the	
actual-colored picture of the model including the name; labeled	
with the required parts.	
11. Key card details:	
a. A4 size copy paper	
b. Margin of 1/2 inch on all sides; with 2 pt width border line	
c. Layout Orientation: Portrait d. Lamination thickness: minimum 0.30 mm	
e. Title: HUMAN NERVOUS SYSTEM MODEL KEY CARD shall	
be placed at the top-center (Font style: Arial, Font Size: 20,	
UPPERCASE, BOLD)	
f. The model picture in white background shall be big enough to	
occupy the center part of the card.	
g. Labels shall be without frame (Font style: Arial, Font size: 12,	
First letter of the label is capitalized).	
h. Line with arrowhead of 1.25 pt width shall point to the	
specific part being labeled.	
12.Must be branded and brand new. The brand shall be	
permanently marked on the baseboard. Model, Human Nose Functional Specifications: Used to illustrate the anatomy of the	
(Nasal-Throat human nose.	
Anatomy)	
Performance Specifications: Must be able to show the parts of the	
7 sense organs of the human body, specifically the human nose.	
Design Specifications:	
1. Life-size, colorful model that features nasal throat anatomy.	

		2. Shows frontal sinus, sphenoid sinus, conchae, nasal vestibule,	
		hard palate, soft palate, oral cavity, tongue, hyoid bone, epiglottis,	
		pharynx, larynx and vocal fold.	
		3. Made of non-toxic plastic material (Certificate of non-toxicity is	
		required)	
		4. The model is washable, free from any label, sharp parts and	
		defects.	
		5. Paint shall be permanent and not be removed when washed	
		with soap and water.	
		6. With name of the model: HUMAN NOSE MODEL (Font style:	
		Arial, Font size: 26, UPPERCASE, BOLD) permanently marked on	
		the base.	
		7. Mounted on a stable base.	
		8. Dimensions (minimum): 12 cm x 21 cm (width x full height)	
		9. Safely packed in a box.	
		10. Comes with a plastic laminated key card that shall contain the	
		actual-colored picture of the model including the name and	
		labeled with the required parts.	
		11. Key card details:	
		a. A4 size copy paper	
		b. Margin of 1/2 inch on all sides; with 2 pt width border line	
		c. Layout Orientation: Portrait	
		d. Lamination thickness: minimum 0.30 mm	
		e. Title: HUMAN NOSE MODEL KEY CARD shall be placed at	
		the top-center (Font style: Arial, Font Size: 26, UPPERCASE,	
		BOLD)	
		f. The model picture in white background shall be big enough	
		to occupy the center part of the card.	
		g. Labels shall be without frame (Font style: Arial, Font size:	
		12, First letter of the label is capitalized).	
		h. Line with arrowhead of 1.25 pt width shall point to the	
		specific part being labeled.	
		12. Must be branded and brand new. The brand shall be	
		permanently marked on the base.	
	Model, Human	Functional Specifications: Used as a visual representation of the	
	Skeleton	internal framework of the body.	
	SKEICIUII	internal namework of the body.	
	SKEIEIOII	internal framework of the body.	
	Skeletoli	Performance Specifications: Must be able to show the different	
	Skeleton		
	SKEICIOII	Performance Specifications: Must be able to show the different	
	SKEICIOII	Performance Specifications: Must be able to show the different	
	SKEICIOII	Performance Specifications: Must be able to show the different types of bones.	
	Skeleton	Performance Specifications: Must be able to show the different types of bones. Design Specifications: 1. Life-size model made of non-toxic, hard plastic material in	
	Skeleton	Performance Specifications: Must be able to show the different types of bones. Design Specifications: 1. Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required).	
	Skeleton	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller casters as support to the skeleton. 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller casters as support to the skeleton. All joints properly articulated and wired; all metal materials that interconnect the bones shall be stainless steel. 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller casters as support to the skeleton. All joints properly articulated and wired; all metal materials that interconnect the bones shall be stainless steel. Features: frontal, parietal, temporal, occipital, maxilla, 	
	SKEICIOII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller casters as support to the skeleton. All joints properly articulated and wired; all metal materials that interconnect the bones shall be stainless steel. Features: frontal, parietal, temporal, occipital, maxilla, mandible, hyoid bone, vertebral column, clavicle, scapula, 	
	SKEICUII	 Performance Specifications: Must be able to show the different types of bones. Design Specifications: Life-size model made of non-toxic, hard plastic material in natural bone color (Certificate of non-toxicity is required). Mounted on stable metal stand, stainless steel rod, Ø minimum of 12 mm., with 4 or 5 legged unbreakable plastic with roller casters as support to the skeleton. All joints properly articulated and wired; all metal materials that interconnect the bones shall be stainless steel. Features: frontal, parietal, temporal, occipital, maxilla, mandible, hyoid bone, vertebral column, clavicle, scapula, sternum, xiphoid process, ribs, humerus, radius, ulna, carpals, 	
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9	Model, Human Torso	 g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized). h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled 13. Must be branded and brand new. The brand must be permanently marked on the item. Functional Specifications: Used to visualize the structures/organs found in the human body. Performance Specifications: Must be able to illustrate how the organs are connected in a system. Design Specifications: Life-size, smooth-finish, plastic material mounted on a stable base. Detachable head; Open back, exposed spine with 2 to 4 removable vertebra and spinal cord With interchangeable male and female reproductive organs (Minimun) 32 dissectible parts that include: a.) removable head (parts of mouth and nasopharynx exposed) b.) with brain exposed (1 to 8 part), with arteries c.) eye with optic nerve d.)female breast plate with plate rib; e) right and left lung (2 to 4 part) f.) 2-part heart g) 2-part stomach h.) liver with gall bladder, i.) 3 to 4 part intestinal tract with appendix flap j.) kidney half k.) 3-part female genital organ with removable fetus 1.) 4-part male genital organ Height (minimum): 845 mm. True to life color and free from toxic materials (Certificate of non-toxicity is required). Will be able to stand upright with removable parts intact and part for the stand upright with removable parts intact and part for the stand upright with removable parts intact and part for the stand organ 	
		 not falling. 9. The model is washable, free from any labels and sharp parts. 10. Paint shall be permanent and not be removed when washed with soap and water. 11. With name of the model: HUMAN TORSO MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the base. 12. Enclosed in a polystyrene foam and packed in a sturdy box 13. With English User's manual that includes description of the model, diagram with labels, and guide on how to assemble/disassemble the model. 14. Manual details: a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm) Cover: Paper board, 280 gsm (minimum 0.30 mm) b. Size (minimum): 165 mm x 215 mm Fold; (minimum): 330 mm x 215 mm Spread c. Binding: Saddle Staple d. Font type: Arial and Font size (minimum): 10 e. Pictures shall be in full color 	
	Model, Lung	permanently marked on the base. Functional Specifications: Used to demonstrate how the lungs	
	Demonstration	 work and the concept of respiration. Performance Specifications: Must be able to demonstrate the process of respiration. Design Specifications: This interactive, model consists of the following: 	
10		 a. clear plastic enclosure b. two (2) rubber balloons c. elastic rubber membrane d. rubber stopper (with one hole) that snugly fits the mouth of the bell jar e. y-tube whose diameter fits the hole on the rubber stopper 2. Made of non-toxic materials (Certificate of non-toxicity is required) 3. Minimum base diameter : 17 cm 4. Minimum height (including stopper): 29 cm 5. Safely packed in a box 	

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			 6. With English User's manual that shall provide description of the model, it's operation and maintenance guide. 7. Manual details: a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm) Cover: Paper board, 280 gsm (minimum 0.30 mm) b. Size (minimum): 165 mm x 215 mm Fold (minimum): 330 mm x 215 mm Spread c. Binding: Saddle Staple d. Font type: Arial and Font size (minimum): 10 e. Pictures shall be in full color 		
			8. Must be branded and brand new. The brand shall be		
			permanently marked on the item.		
		Model, Pumping Heart	Functional Specifications: Used to simulate blood flow through the heart chambers.		
			Performance Specifications: Must be able to demonstrate basic heart and pulmonary blood flow.		
			Design Specifications: 1. An interactive model that illustrates how the heart and lungs work together for oxygen exchange 2. With heart chambers, main artery, veins and lungs labeled clearly		
			clearly 3. Made of non-toxic plastic material; with a rubber pump (Certificate of non-toxicity is required)		
	11		 4. The liquid is sealed in the model 5. Inclusion: Two (2) extra stopper screws and dye 6. Dimensions (minimum): 29 cm L x 27 cm W x 12 cm D 		
			7. Safely packed in a box8. With User's manual that shall provide guide on how it works;with heart study/activity instructions		
			9. Manual details:a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)		
			Cover: Paper board, 280 gsm (minimum 0.30 mm) b. Size (minimum): 165 mm x 215 mm Fold (minimum): 330 mm x 215 mm Spread c. Binding: Saddle Staple		
			 d. Font type: Arial and Font size (minimum): 10 e. Pictures shall be in full color 10. Must be branded and brand new. The brand shall be 		
		Model, Reproductive System, Female	permanently marked on the item. Functional Specifications: Used to visually represent the female reproductive system.		
		(Pelvic Anatomy)	Performance Specifications: Must be able to show the parts of the female reproductive and genitourinary system.		
			Design Specifications: 1. Shows a longitudinal section of one-piece, life-size female pelvis.		
			 2. Exhibits colored internal structures of the genitourinary system: urinary bladder, urethra, vagina, cervix, uterus, ovary, fallopian tube, fimbria, rectum, labium minus and labium majus. 3. Made of non-toxic plastic material (Certificate of non-toxicity is 		
	12		required) 4. The model is washable, free from any labels and sharp parts. 5. Paint shall be permanent and not be removed when washed		
			 with soap and water. 6. With name of the model: FEMALE REPRODUCTIVE SYSTEM (PELVIC ANATOMY) MODEL (Font style: Arial, Font size: 16, UPPERCASE, BOLD) permanently marked on the base 		
			 7. Dimensions (minimum): 25 cm L x 18 cm W x 28 cm H 8. Mounted on a stable base. 9. Safely packed in a box. 		
			10. Comes with a plastic laminated key card that shall contain the actual colored picture of the model including the name and labeled with the required parts.		
			11. Key card details: a. A4 size copy paper		
			b. Margin of 1/2 inch on all sides; with 2 pt width border line c. Layout Orientation: Landscape d. Lamination thickness: minimum 0.30 mm		
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	Model, Reproductive	 e.Title: FEMALE REPRODUCTIVE SYSTEM (PELVIC ANATOMY) MODEL KEY CARD shall be placed at the top- center (Font style: Arial, Font Size: 22, UPPERCASE, BOLD) f. The model picture in white background shall be big enough to occupy the center part of the card. g. Labels shall be without frame (Font style: Arial, Font size: 14, First letter of the label is capitalized). h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled. 12. Must be branded and brand new. The brand shall be permanently mark on the base. Functional Specifications: Used to visually represent the male 	
	System, Male	reproductive system. Performance Specifications: Must be able to show the parts of the	
13		 male urology and reproductive system. Design Specifications: Shows a longitudinal section of one-piece, life-size male pelvis. Exhibits bladder, prostate, rectum, seminal vesicle, testicle, epididymis, penis, vas deferens and urethra Made of non-toxic plastic material (Certificate of non-toxicity is required) The model is washable, free from any label, sharp parts and defects. Paint shall be permanent and not be removed when washed with soap and water. With name of the model: MALE REPRODUCTIVE SYSTEM MODEL (Font style: Arial, Font size: 26, UPPERCASE, BOLD) permanently marked on the base. Mounted on a stable base Dimensions (minimum): 26 cm H x 15 cm W x 25 cm L Safely packed in a box Comes with a plastic laminated key card that shall contain the actual-colored picture of the model including the name and labeled with the required parts. Key card details: a. A4 size copy paper Margin of 1/2 inch on all sides; with 2 pt width border line c. Layout Orientation: Landscape Lamination thickness: minimum 0.30mm Title: MALE REPRODUCTIVE SYSTEM MODEL KEY CARD shall be placed at the top-center (Font style: Arial, Font Size: 26, UPPERCASE, BOLD) f. The model picture in white background shall be big enough to occupy the center part of the card. g. Labels shall be without frame (Font style: Arial, Font size: 14, First letter of the label is capitalized, 1 h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled 	
	Model, Skin Block	permanently marked on the base. Functional Specifications: Used to demonstrate the different layers of the human skin. Performance Specifications: Must be able to show the parts of the sense organs of the human body, specifically the human skin.	
14		 Design Specifications: 1. 3D relief model made of non-toxic plastic material (Certificate of non-toxicity is requred) 2. Exhibits the main structures of the skin such as epidermis, dermis, hypodermis, sweat gland, sebaceous gland, hair shaft, hair follicle, arrector pili muscle, hair root, adipose tissue, pacinian corpuscle, pore of sweat gland duct, nerve and blood vessels 3. The model is washable, free from any label, sharp parts and defects. 4. Paint shall be permanent and not be removed when washed with soap and water. 5. With name of the model: HUMAN SKIN BLOCK MODEL (Font 	
		style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the base. 6. Mounted on a stable base	

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between meiosis and mitosis phases and their role in the cell-		2		Performance Specifications: Must be able to make a comparison	
				division cycle.	

Design Specifications: 1. Three-dimensional relief model made of non-toxic plastic material (Certificate of non-toxicity is required) 2. A set depicting 10 phases of meiosis namely: a) Interphase (17) phase), b) Prophase I (Leptotene), c) Prophase I (Leptotene), d) Prophase I (diakinesis), f) Metaphase I (Zygotene and pachytene), d) Prophase I (diakinesis), f) Metaphase I, g) Anaphase I, h) Telophase I, Cytokinesis I, h) Telophase I, Cytokinesis I, interkinesis, Prophase II, and Metaphase II, j) Anaphase II, j) Anaphase II, j) Anaphase II, j) Anaphase II, i) Telophase I di dytokinesis II 3. Labels of the phases must bear the correct spelling as stated above 4. Shows the nucleus, centroles, centrosome, chromatin, chromosomes, spindle fiber and aster; 5. The color of the cell models shall be in accordance with the coloring methods of nicroscopy; 6. Individual cell model is magnetic and detachable; 7. Each model rests in a magnetic board/frame; 8. Magnets shall not separate from the cell model; 9. Cell models must not fall when the frame is vertically mounted 10. Product measures (±1 mm LxTxW) : 600 mm long x 60 mm thick x 400 mm wide; 11. With astable 45° metal stand 12. With name of the model: ANIMAL MEIOSIS MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the board/frame. 13. Safely packed in a box 14. With Lenglish User's manual that includes the description in each phase of meiosis and storage instructions. 15. Manual details: a. Material: Inside pages: Book Pager, 80 gam (minimum 0.08mm) a. Material: Inside pages: Book Pager, 80 gam (minimum 0.08mm)	
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 11. With a stable 45° metal stand 12. With name of the model: ANIMAL MEIOSIS MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the board/frame. 13. Safely packed in a box 14. With English User's manual that includes the description in each phase of meiosis and storage instructions. 15. Manual details: a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm) 	
12. With name of the model: ANIMAL MEIOSIS MODEL (Font style: Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on the board/frame. 13. Safely packed in a box 14. With English User's manual that includes the description in each phase of meiosis and storage instructions. 15. Manual details: a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)	
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15. Manual details: a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)	
a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)	
Cover: Paper board, 280 gsm (minimum 0.30 mm)	
b. Size (minimum): 165 mm x 215 mm Fold	
(minimum): 330 mm x 215 mm Spread	
c. Binding: Saddle Staple	
d. Font type: Arial and Font size (minimum): 10	
e. Pictures shall be in full color	
16. Must be branded and brand new. The brand shall be	
permanently marked on the board/frame.	
Model, Animal Functional Specifications: Used to visualize the different phases of	
Mitosis animal mitosis.	
Performance Specifications: Must be able to make a comparison	
between meiosis and mitosis phases and their role in the cell-	
division cycle.	
Design Specifications:	
1. Three-dimensional relief model made of non-toxic plastic material (Certificate of non-toxicity is required)	
material (Certificate of non-toxicity is required)	
2. A set depicting 9 phases of mitosis namely: a) Interphase,	
b) Prophase,	
c) Early Prometaphase,	
3 d) Late Prometaphase,	
e) Metaphase,	
f) Early Anaphase	
g) Late Anaphase,	
h) Telophase	
i) Cytokinesis	
3. Labels of the phases must bear the correct spelling as stated	
above	
4. Shows the nucleus, centrioles, centrosome, chromatin,	
chromosomes, spindle fiber and aster;	
5. The color of the cell models shall be in accordance with the	
coloring methods of microscopy;	
6. Individual cell model magnetic and detachable;	
7. Each model rests in a magnetic board/frame;	
8. Magnets shall not separate from the cell model;	

		9. Cell models must not fall when the frame is vertically mounted		
		10. Product measures (± 1mm L x T x W): 600 mm long x 60 mm		
		thick x 400 mm wide;		
		11. With a stable 45° metal stand		
		12. With name of the model: ANIMAL MITOSIS MODEL (Font style:		
		Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on		
		the board/frame.		
		13. Safely packed in a box		
		14. With English User's manual that includes the description in		
		each phase of meiosis and storage instructions.		
		15. Manual details:		
		a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)		
		Cover: Paper board, 280 gsm (minimum 0.30 mm)		
		b. Size (minimum): 165 mm x 215 mm Fold		
		(minimum): 330 mm x 215 mm Spread		
		c. Binding: Saddle Staple		
		d. Font type: Arial and Font size (minimum): 10		
		e. Pictures shall be in full color		
		16. Must be branded and brand new. The brand shall be		
		permanently marked on the board/frame.		
	Model, Chloroplast	Functional Specifications: Used to show the complex internal		
	Model, Chioroplast			
	1	structure of a chloroplast.		
		Performance Specifications: Must be able to illustrate marts and		
		Performance Specifications: Must be able to illustrate parts and the organelles involved in photosynthesis.		
		the organelies involved in photosynthesis.		
		Design Specifications		
		Design Specifications:		
		1. Colored 3D model with cut-away section to reveal internal		
		structure.		
		2. Made of non-toxic plastic material (Certificate of non-toxicity is		
		required)		
		3. Features: ribosome, DNA, starch granule, outer membrane,		
		inner membrane, stroma, thylakoid, granum, lamellae, and		
		lumen.		
		4. The model is washable, free from any label, sharp parts and		
		defects.		
		5. Paints shall be permanent and not be removed when washed		
		with soap and water		
		6. With name of the model: CHLOROPLAST MODEL (Font style:		
		Arial, Font size: 36, UPPERCASE, BOLD) permanently marked on		
		the base.		
4		7. Mounted on two posts stand with a stable base.		
		8. Dimensions (minimum): 20 cm H x 25 cm L x 23 cm W		
		9.Safely packed in a box.		
		10. Comes with a plastic laminated key card that shall contain the		
		actual colored picture of the model including the name and		
		labeled with the required parts.		
		11. Key card details:		
		a. A4 size copy paper		
	1	b. Margin of $1/2$ inch on all sides; with 2 pt width border line		
	1	c. Layout Orientation: Landscape		
	1	d. Lamination thickness: minimum 0.30 mm		
		e. Title: CHLOROPLAST MODEL KEY CARD shall be placed at		
		the top-center (Font style: Arial, Font Size: 36, UPPERCASE,		
		BOLD).		
		f. The model picture in white background shall be big enough to		
	1	occupy the center part of the card.		
	1	g. Labels shall be without frame (Font style: Arial, Font size: 14,		
	1	First letter of the label is capitalized).		
		h. Line with arrowhead of 1.25 pt width shall point to the specific		
		part being labeled.		
		12. Must be branded and brand new. The brand shall be		
		permanently marked on the base.		
	Model, DNA	Functional Specifications: Used as a visual representation of the		
		different components of a DNA structure.		
	1			
		Performance Specifications: Must be able to illustrate accurately		
		the phosphate, deoxyribose, and base pairs components of a DNA		
5		structure.		
		Design Specifications:		
	1	1. Depicts a minimum of 16 base pair section/layer DNA		
	1	2. Pre-assembled DNA made of attractive, color-coded, non-toxic,		
		abstract shaped plastic parts that represents each bases		
	1	and any output parts that represents cach bases	[

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		(Thymine, Adenine, Guanine & Cytosine), the sugar and		
		phosphate components; (Certificate of non-toxicity is required)		
		3. Stands upright with a support rod mounted on a stable		
		rotatable base/stand		
		4. Minimum model height : 58 cm		
		5. The phosphate and deoxyribose can be removed and separated		
		along with individual base pairs		
		6. Double helix structure		
		7. The model can also be uncoiled and ""unzipped"" to produce two		
		strands.		
		8. Must be free from sharp parts and defects		
		9. With name of the model: DNA MODEL (Font style: Arial, Font		
		size: 24, UPPERCASE, BOLD) permanently marked on the base.		
		10. Safely packed in a box		
		11. With English User's manual that includes description of the		
		product, its parts, assembly and storage instructions		
		12. Manual details:		
		a. Material: Inside pages: Book Paper, 80 gsm (minimum 0.08mm)		
		Cover: Paper board, 280 gsm (minimum 0.30 mm)		
		b. Size (minimum): 165 mm x 215 mm Fold		
		(minimum): 330 mm x 215 mm Spread		
		c. Binding: Saddle Staple		
		d. Font type: Arial and Font size (minimum): 10		
		e. Pictures shall be in full color		
		13. Must be branded and brand new. The brand shall be		
		permanently marked on the base.		
	Model, Invertebrates	Functional Specifications: Used to provide information on the		
	,	anatomy of invertebrate animals.		
		Performance Specifications: Must be able to show the major parts		
		of the invertebrate animals.		
		Design Specifications:		
		1. No sharp parts, non-toxic, true-to-life color, 3D replicas of		
		invertebrates (Certificate of non-toxicity is required)		
		2. With life-like shapes		
		3. The models are washable and must be free from any labels.		
		4. Paint shall be permanent and not be removed when washed		
		with soap and water.		
		5. Each is packed in resealable plastic bag		
		6. Invertebrate models:		
		a. Soft rubber Centipede - Length (minimum): 12 cm		
		b. Plastic Scorpion - Length (minimum): 15 cm		
		c. Plastic Crayfish or Shrimp - Length (minimum): 12 cm		
		7. Each invertebrate model comes with a plastic laminated key		
		card that shall contain the actual-colored picture of the model		
		labeled with the required parts		
		8. Key card details:		
		a. A4 size copy paper		
6		b. Margin of $1/2$ inch on all sides; with 2 pt width border line		
		c. Layout Orientation: Landscape		
		d. Lamination thickness: minimum 0.30mm		
		e. Titles of the key card as stated below: Shall be placed at the		
		top-center (Font style: Arial, Font Size: 28, UPPERCASE, BOLD)		
		e.1 INVERTEBRATE: CENTIPEDE MODEL KEY CARD		
		Features: Tail-like rear pair of legs, segmented trunk, many legs,		
		head, eye, antennae and maxilliped with poison fang		
		e.2 INVERTEBRATE: CRAYFISH or SHRIMP MODEL KEY CARD		
		CRAYFISH features: Eye, antennae, rostrum, carapace, cheliped,		
		abdomen, swimming legs, walking legs, telson, tail		
		SHRIMP features: Eye, antennae, rostrum, carapace, abdomen,		
		swimming legs, walking legs, telson, tail		
		e.3 INVERTEBRATE: SCORPION MODEL KEY CARD		
		Features: Pedipalp (pincer), eyes, legs, carapace, chelicerae, anus,		
		telson, stinger		
		f. The model picture in white background shall be big enough to		
		occupy the center part of the card.		
		g. Labels shall be without frame (Font style: Arial, Font size: 14,		
		First letter of the label is capitalized)		
		h. Line with arrowhead of 1.25 pt width shall point to the specific		
		part being labeled		
		9. Must be brand new.		
	Model,	Functional Specifications: Used as a visual representation of the		
7	Mitochondrion	working organelles that keep the cell in full energy.		
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		Performance Specifications: Must be able to visually represent the structure of mitochondrion as the main organelle involved in respiration.	
		Design Specifications: 1. One-piece 3D model made of non-toxic plastic material	
		(Certificate of non-toxicity is required) 2. Features: Inner membrane, outer membrane, cristae, matrix, intermembrane space, DNA, ribosome and granule	
		 Shall be in cross-section longitudinal structure The model is washable, free from any label, sharp parts and defects. 	
		5. Paint shall be permanent and not be removed when washed with soap and water.	
		6. With name of the model: MITOCHONDRION MODEL (Font style: Arial, Font size: 40, UPPERCASE, BOLD) permanently marked on the base.	
		 7. Mounted on a stable base 8. Dimensions (minimum): 40 cm L x 20 cm W x 12 cm H 9. Safely packed in a box 	
		10. Comes with a plastic laminated key card that shall contain the actual-colored picture of the model including the name and labeled with the required parts.	
		11. Key card details:a. A4 size copy paperb. Margin of 1/2 inch on all sides; with 2 pt width border line	
		c. Layout Orientation: Landscape d.Lamination thickness: minimum 0.30 mm	
		e. Title: MITOCHONDRION MODEL KEY CARD shall be placed at the top-center (Font style: Arial, Font Size: 32, UPPERCASE, BOLD)	
		f. The model picture in white background shall be big enough to occupy the center part of the card.g. Labels shall be without frame (Font style: Arial, Font size: 14,	
		First letter of the label is capitalized). h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled.	
	Model, Plant Cell	12. Must be branded and brand new. The brand shall be permanently marked on the base Functional Specifications: Used as a visual representation of a	
	Model, Flant Cell	plant cell.	
		Performance Specifications: Must be able to illustrate structures in a plant cell.	
		Design Specifications: 1. Two-piece plant cell 3D model 2. Shape: Irregular	
		 With colorful cell structures and raised-relief organelles Features: cell wall, cytoplasm, ribosome, Golgi apparatus, mitochondrion, chloroplast, nucleus, nucleolus, nucelar envelope, 	
		nuclear pore, peroxisome, plasmodesma, smooth endoplasmic reticulum, rough endoplasmic reticulum and vacuole. 5. Dimensions (minimum): 195 mm L x 110 mm W x 325 mm H	
8		 6. Made of non-toxic plastic material (Certificate of non-toxicity is required) 7. The model is free from any label, sharp parts and defects. 	
		8. Paint shall be permanent and not be removed when washed with soap and water.	
		9. With name of the model: PLANT CELL MODEL (Font style: Arial, Font size: 20, UPPERCASE, BOLD) permanently marked on the model itself or onto the base if the model is supplied with a base.	
		10. Safely packed in a box 11. Comes with a plastic laminated key card that shall contain the actual-colored picture of the model including name and labeled	
		with the required parts. 12. Key card details: a. A4 size copy paper	
		 b. Margin of 1/2 inch on all sides; with 2 pt width border line c. Layout Orientation: Landscape d. Lamination thickness: minimum 0.30mm 	
		e. Title: PLANT CELL MODEL KEY CARD shall be placed at the top-center (Font style: Arial, Font Size: 34, UPPERCASE, BOLD)	

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	Model, Vertebrates	 f. The model picture in white background shall be big enough to occupy the center part of the card. g. Labels shall be without frame (Font style: Arial, Font size: 12, First letter of the label is capitalized). h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled 13. Must be branded and brand new. The brand shall be permanently marked on the item or base whenever applicable. Functional Specifications: Used to provide information on the anatomy of vertebrate animals. Performance Specifications: Must be able to show the major parts of the vertebrate animals. Design Specifications: No sharp parts, non-toxic, true-to-life color, 3D replicas of vertebrates (Certificate of non-toxicity is required) With life-like shapes The models are washable and must be free from any labels. Paint shall be permanent and not be removed when washed with soap and water. Each is packed in a resealable plastic bag. 		
9		 a. Soft rubber SNAKE - Length (minimum): 50 cm. b. Plastic balancing eagle with transparent pyramid tower Eagle (± 0.2 cm): 13 cm L x 10 cm W x 2 cm H Tower (± 0.2 cm): 4 cm L x 4 cm W x 5 cm H c. Plastic Shark - Length (minimum): 15 cm 7. Each vertebrate model comes with a plastic laminated key card that shall contain the actual-colored picture of the model and labeled with the required parts. 8. Key card details: a. A4 size copy paper b. Margin of 1/2 inch on all sides; with 2 pt width border line c. Layout Orientation: Landscape d.Lamination thickness: minimum 0.30mm e. Titles of key cards as stated below: Shall be placed at the top- center (Font style: Arial, Font Size: 28, UPPERCASE, BOLD) e.1 VERTEBRATE: SHARK MODEL KEY CARD Features: Snout, eye, mouth, nostril, gill slit, first dorsal fin, second dorsal fin, pectoral fin, pelvic fin, and caudal fin e.2 VERTEBRATE: SNAKE MODEL KEY CARD Features: Head, feather, tail, body, beak, eye, and wing e.3 VERTEBRATE: SNAKE MODEL KEY CARD Features: Head, eye, mouth, tongue, body, scales, and tail f. The model picture in white background shall be big enough to occupy the center part of the card before inserting labels. g. Labels shall be without frame (Font style: Arial, Font size: 14, First letter of the label is capitalized). h. Line with arrowhead of 1.25 pt width shall point to the specific part being labeled. 		
10	Protein Synthesis Demonstration Set	 9. Must be brand new Functional Specifications: Used to demonstrate the synthesis of protein. Performance Specifications: Must be able to illustrate the synthesis of protein using information from DNA. Design Specifications: Contains 33 pieces of reusable, non-toxic plastic (certificate of non-toxicity is required), magnetic, and colorful teacher manipulatives (large DNA, mRNA, ribosome, tRNA, and amino acid models) A 3' -5' DNA sense strand and a linear 5'-3' DNA anti-sense strand With 180 student manipulatives (smaller size models) where students can manipulate on their tables With teachers key for easy verification With instructional video on the use in USB Safely packed in a box With English User's manual that shall provide assessment questions in the identification of a resulting amino acid sequence from a unique DNA sequence. 		

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13	Image: molecular ge Model, Atomic Orbital Kit	 Functional Specifications: Used as a model/visual three dimensional (3D) representation of the shapes of the 14 different atomic orbitals Performance Specifications: A) Must be able to a) represent visually the 14 different atomic orbitals b) assemble/build the 14 atomic orbitals (basic s, p and d atomic orbitals) i) one (1) pc 1s-orbital, unhybridized ii) one (1) pc 2s-orbital, unhybridized ii) three (3) pc 2p-orbital unhybridized iv) five (5) 3d-orbital- unhybridized v) one unit with one 2s plus three 2p- orbitals as well vi) as one sp hybrid orbital vi) one (1) pc sp² hybridized vii) one (1) pc sp² hybridized vii) one (1) pc sp² hybridized viii) one (1) pc sp² hybridized viii) one (1) pc sp² hybridized viii one (1) pc sp³ hybridized. Design Specifications: The pink & purple pear-shaped lobes to represent the 2-wave (positive and negative) phases of the s, p & d atomic orbitals. The pink and purple, pear-shaped lobes represent the phase Material : Plastic Opaque white spheres represent atomic nuclei. Material : Plastic With 14 easy-to-assemble atomic orbitals ((basic s, p and d atomic orbitals) a) 1pc - 1s, Unhybridized c) 3pc - 2p, Unhybridized d) 5pc - 3d, Unhybridized e) 1 pc with one 2s plus three 2p orbitals, Unhybridized f) pc sp1 hybrid orbital, Hybridized f) pc sp2 hybrid orbital, Hybridized f) pc sp1 hybrid orbital, Hybridized h) 1pc sp3 hybrid orbital, Hybridized h) 1pc sp1 hybridal, and c) 80 mm (d orbital), and c) 80 mm (g orbital), and c) 80 mm (g orbital), and c) 80 pc Grey atomic orbital parts b) 17 pc Purple atomic	
13	1	 3. With 14 easy-to-assemble atomic orbitals ((basic s, p and d atomic orbitals) a) 1 pc - 1s, Unhybridized b) 1 pc - 2s, Unhybridized c) 3 pc - 2p, Unhybridized d) 5 pc - 3d, Unhybridized e) 1 pc with one 2s plus three 2p orbitals, Unhybridized f) 1 pc sp, hybrid orbital, Hybridized g) 1 pc sp2 hybrid orbital, Hybridized h) 1 pc sp3 hybrid orbital, Hybridized 4. Approximate model heights including clear, colorless base range from 50–90 mm. a) 50 mm (s orbital), b) 90 mm (p orbital), and c) 80 mm (d orbital). 5. The set is composed of the following: a) 9 pc Grey atomic orbital parts b) 17 pc Purple atomic orbital parts 	

I T			c) Submission of the original copy of the Test certificate/s	
			issued by the testing unit, like DOST material testing facilities or	
			at any DOST-accredited testing institution attesting that the	
			material of the compartmentalized storage box, is Acrylonitrile	
			butadiene styrene (ABS), to validate the conformity of the material	
			to the technical specifications. A representative of the Procuring	
			Entity should be present during preparation and submission of	
			the material test specimens to testing facility. All expenses for the	
			said test shall be shouldered by the Supplier. 7. For Contents/ List of materials, In Table form	
			a) For atoms: quantity, name of element(symbol), color code,	
			(number of holes, type of bond angles), diameter of the sphere	
			b) For links; bond types and use	
			8. With assembly guides, individual worksheets and instructional	
			sheets/leaflets in English	
			9. With User's Manual/Teacher's manual in English with full	
			background information	
			10. For numbers #8-9, the technical specifications (a- e) must be	
			followed:	
			a) For Contents/ List of materials, In Table form	
			b) for User's Manual, Instruction Sheets/Assembly Guides, In	
			sentences format	
			i) With sentences, grammatically correct and	
			ii) With correct spelling and terminologies, punctuations and	
			others	
			c) In original print, not photocopied	
			d) In colored pictures, drawings/illustrations	
			i) Paper Size : A4 size , 80 gsm e) in 0.3 mm minimum thickness plastic laminated User's	
			Manual/Teacher's Manual/Assembly Guides/ instructional	
			leaflets that shall contain the actual colored picture of the model	
			including the name: labeled with the required parts with details as	
			follows:	
			ii) Font : Times New Roman	
			iii) Font size : 12	
			iv) Margins on all sides with 2 point width border line	
			v) Line with arrow head of 1.25 point with width shall point	
			to the specific part being labeled	
			11. Must be free from breakage, cracks, chipped rims, sharp	
			edges, all surface irregularities and all other defects not stated	
			herein.	
			12. Comes with a brand marked permanently in the box	
-			13. Must be brand new	
		Model, Biochemistry	Functional Specifications: Used as a model/visual 3D	
		Molecular, (262 atom	representation of some biomolecules: proteins, nucleic acids,	
		parts and 260 links)	lipids, and carbohydrates, their structures	
			Derformance Specifications	
			Performance Specifications: A) Must be able to visually	
			a) represent some biomolecules proteins, nucleic acids, lipids, and	
			carbohydrates, their structures, and relate them to their function.	
			b) observe the chemical bonding	
			c) determine whether the biomolecule is polar or non polar given	
			its structure	
			B) Assemble all the different biomolecules and study them	
			Design Specifications:	
	2		1. Type : Compact/Semi-space filling models	
			2. Shape of atom parts : Solid spheres	
			3. Material of spheres : Plastic	
			4. Diameter of sphere/atom	
			a) Hydrogen atom : 17-17.5 mm	
			b) Carbon, nitrogen and oxygen atom: 23-23.5 mm	
			5. For compact models, bonds are represented by a) short links	
			a) short links b) v-bonds links	
			6. Material of links : Plastic	
			7. Length of links	
			a) short link : 2 mm-11 mm	
			b)v-bonds links : 13-14 mm	
			b)v-bonds links : 13-14 mm 8. Color of links:	

	0 117:41							
		h 262 color-cod						
		e Biochemistry			includes th	e following:		
	A. 2	62 color-coded	plastic ato	nn parts				
	Quan		Color	No. of	Shape			
	(pc i) 68 Bl	ack Carbon atoms		Holes	F -			
	42 1	oc Carbon	Black	4 holes	Tetrahedral			
	24 1 2 p		Black Black	3 holes 2 holes	Trigonal Linear			
	ii) 34 B	lue nitrogen atoms						
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3 b) Copper : 25-25.5 mm c) Choire : 32-32.5 mm c) Choire : 32-32.5 mm c) Material of links/ponds b) Long (double/triple, flexible links b) Long (double/triple, flexible links c) Long that is clow density plastic c) Long inks / rods c) Material of links/ honds Medium links: grey white/purple Long links gray c) Color of links/ honds Medium links: grey white/purple Long links gray c) The Crystal structure set is composed of the following: a) Diamond - covalent crystal model (30 atoms) + links = 70 pc 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.							Jwing unin	ensions.	
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3) Medium (Single, rigid) links b) Long (double/triple, flexible) links 5. Material of links; Texible plastic low density plastic 6. Length of solid links; rods a)Medium: 19-27 mm b) Dong : 43.344 mm 7. Color of links/bonds Medium links: gray 8. The Crystal structure set is composed of the following: a) Biamond: covelant crystal model (30 atoms) + links = 70 pc 1. Element <u>Number Angle Shape Color Quantity</u> i) Carbon <u>4 hole 109.5° Terahedral Black 30</u> i) Placed in rescalable plastic bag. 1. inifis/Bonds Color <u>1 infis/Bonds</u> i) Placed in rescalable Plastic bag. ii) Placed in rescalable Plastic bag. ii) Placed in rescalable Plastic bag. iii) Placed in rescalable Plastic bag. iii) Placed in two (2) separate rescalable plastic bag. iiii) Placed in two (2) separate rescalable plastic bag. iii) Placed in two (2) separate rescalable plastic bag.			c) Chlorin	e : 32-32.	5 mm				
3 3 b) Long (double/triple, flexible) links 5. Material of links: Plexible plastic low density plastic 6. Length of solid links/rods a) Medium: 10-27 mm b) Long : 43-44 mm 7. Color of links/bonds Medium links: grey white/purple Long links : gray 8. The Crystal structure set is composed of the following: a) Diamond- covalent crystal model (30 atoms) + links = 70 pc I. I. I. I. I. I. I. Bernent Mumber of Moles Angle Shape Color Quantity (pc) i) Diamond- covalent crystal model (30 atoms) + links = 70 pc I. <p< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></p<>									
3 3 5. Material of links: Flexible plastic low density plastic 6. Length of solid links/rods a)Medium: 19-27 mm b) Long : 43-44 mm 7. Color of links/bonds Medium links: gray 8. The Crystal structure set is composed of the following: a) Damond- covalent crystal model (30 atoms) + links = 70 pc 1. Element <u>Number Angle Stape Color Quantity [pc]</u> a) Damond- covalent crystal model (30 atoms) + links = 70 pc 1. Element <u>Number Angle Stape Color Quantity [pc]</u> a) Damond- covalent crystal model (30 atoms) + links = 70 pc 1. Element <u>Number Grave Quantity [pc]</u> a) Datom 4 hole [00.5° Tetrahedral Black 30 a) Di Bodium chloride (NaCI)-i/onic crystal model (27 atoms)+links= 81 pc 1. 1. Element <u>Holes Grave White</u> 40 b) Sodium chloride (NaCI)-i/onic crystal model (27 atoms)+links= 81 pc 1. 1. Element <u>Holes Grave White</u> a) Color <u>Quantity [pc]</u> a) Chlorine 6 hole Octahedral <u>Green 13</u> a) Sodium 6 hole Octahedral <u>Green 13</u> a) Sodium 6 hole Octahedral <u>Green 13</u> b) Sodium 6 hole Octahedral <u>Green 13</u> a) Sodium 6 hole Octahedral <u>Green 13</u> b) Pinece in rescalable plastic bage 1. 1. Element <u>Holes Color Quantity [pc]</u> a) Advantation of the loge sequence of the sequence o						1:1			
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3 3 a)Medium: 19-27 mm b) Long ::43-44 mm 7. Color of links/honds Medium links: gray 8. The Crystal structure set is composed of the following: a) Diamond- covalent crystal model (30 atoms) + links = 70 pc I. Element <u>Number</u> Angle <u>Shape</u> <u>Color</u> <u>Quantity</u> j) <u>Carbon 4 hole</u> 100.5" Tetrahedral <u>Black</u> 30 ii) Placed in rescalable plastic bag I. I. I. ii) <u>Color di Koles</u> <u>Color</u> <u>Quantity (pc)</u> ii) <u>Addium</u> <u>Color</u> <u>Quantity (pc)</u> ii) <u>Disodium</u> <u>Color</u> <u>Quantity (pc)</u> iii) <u>Disodium</u> <u>Color</u> <u>Color</u> <u>Quantity (pc)</u> iii							isity plasti		
3 3 7. Color of links/bonds Medium links: gray 8. The Crystal structure set is composed of the following: a) Diamod- covalent crystal model (30 atoms) + links = 70 pc 1. Element Number Angle Shape Color Quantity i) <u>Carthon 4 hole 109,5° Tetrahedral Black 30</u> ii) Placed in resealable plastic bag 11. 11. 12. 13. 14. 14. 14. 16. 16. 16. 17. 18. 18. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 11. 12. 13. 14. 14. 14. 14. 15. 16. 16. 17. 18. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 11. 12. 13. 14. 14. 14. 15. 16. 17. 18. 19. 10.									
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3 3 3 a Diamond: covalent crystal model (30 atoms) + links = 70 pc 1. b Diamond: covalent crystal model (30 atoms) + links = 70 pc 1. b Color 4 hole 109.5° Tetrahedral Black 30 ii) Placed in rescalable plastic bag 1. b Sodium chloride (MaCI)-i/onic crystal model (27 atoms)+links = 81 pc 1. i Element Number of Shape Color Quantity (pc) ii) Placed in rescalable Plastic bag 3. b Sodium chloride (MaCI)-i/onic crystal model (27 atoms)+links = 81 pc 1. i Element Number of Shape Color Quantity (pc) ii) Chlorine 6 hole Octahedral Green 13 iii) Sodium 6 hole Octahedral Green 13 iii Sodium 6 hole Octahedral Green 13 iii Sodium 6 hole Octahedral gray/grey 14 iii) Placed in rescalable plastic bags 1. i This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. i I i I ii Placed in rescalable plastic bag 10. ii Placed in rescalable plastic bag 11. iii Medium Cry white - Color Quantity (pc) ii) Placed in rescalable plastic bags 11. iii Diaced in rescalable plastic bag 12. iii Placed in rescalable plastic bag 13. iii Placed in rescalable plastic bag 14. iii Placed in rescalable plastic bag 15. iii Placed in rescalable plastic bag 16. iii Placed in rescalable plastic bag 17. iii Placed in rescalable plastic bag 18. iii Placed in rescalable plastic bag 19. iii Placed in rescalable plastic bag 10. iii Placed in rescalable plastic bag 11. iii Placed in rescalable plastic bag 13. iii Placed in rescalable plastic bag 13. iii Placed in rescalable plastic bag 14. iii Placed in rescalable plastic bag 15. iii Placed in rescalable plastic bag 16. 									
3 3 8. The Crystal structure set is composed of the following: a) Diamond - covalent crystal model (30 atoms) + links = 70 pc I. I.						ple			
a) Diamond - covalent crystal model (30 atoms) + links = 70 pc I. I. Element of Holes Angle Shape Color Quantity (pc) (1 Carbon 4 hole 109.5° Tetrahedral Black 30 (i) Placed in rescalable plastic bag. II. Unit I. <td></td> <td></td> <td></td> <td></td> <td></td> <td>nnosed of</td> <td>the follow</td> <td>zing.</td> <td></td>						nnosed of	the follow	zing.	
3 I. Element of Holes / 109.5* Tetrahedral Black / 30 ii) Placed in resealable plastic bag. II. Links/Bonds Golor Quantity (pc) ii) Placed in resealable plastic bag. II. iii) Placed in resealable plastic bag. II. iii) Placed in resealable Plastic bag. II. b) Sodium chloride (NaCI)-i/onic crystal model (27 atoms)+links= 81 pc II. I. Element Mumber of Shape Color Quantity (pc) ii) Sodium chloride (NaCI)-i/onic crystal model (27 atoms)+links= 81 pc I. Element Mules Octahedral Green 13 iii) Sodium of hole Octahedral grav/grey 14 iii) Sodium chloride (NaCI)-i/onic crystal model (27 atoms)+links= 100 PC 1. Coraphite - covalent crystal model (45 atoms) + links = 100 PC This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. Element holes Color Dilack 39 ii) Placed in resealable plastic bag. II. Iii Read in resealable plastic bag. II. Iii Macium and the set of th									
3 <u>il clement of Holes Angle Shape Color (pc)</u> ij Carbon 4 hole 109.5° Tetrahedral Black 30 ij Placed in resealable plastic bag II. Iinks/Bonds Color Quantity (pc) ij Placed in resealable plastic bag b) Sodium chloride (NaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. II. iii. Placed in resealable plastic bag b) Sodium chloride (NaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. II. II. iii. Placed in resealable plastic bag II. iii. Placed in resealable plastic bags II. II. iii. Placed in resealable plastic bags II.								F-	
3 $\frac{ \hat{a} \operatorname{Carbon} + \operatorname{hole} - 109.5^{\circ} + \operatorname{Tetrahedral} - \operatorname{Black} - 30}{ \hat{a} \operatorname{Carbon} + \operatorname{hole} - 109.5^{\circ} + \operatorname{Tetrahedral} - \operatorname{Black} - 30}{ \hat{a} \operatorname{Medium} - 109.5^{\circ} + \operatorname{Tetrahedral} - \operatorname{Black} - 30}{ \hat{a} \operatorname{Medium} - 100.5^{\circ} + \operatorname{Color} - 200.5^{\circ} + \operatorname{Media} - 200.5^{\circ} + 200.5^{\circ} $			Element		Angle	Shape	Color		
ii) Placed in resealable plastic bag II. Links/Bonds Color Quantity (pc) i) Medium Grey White 40 Links/Bonds Grey White 40 ii) Placed in resealable Plastic bag b) Sodium chloride (MaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. Element Number of Shape Color Quantity ii) Chlorine 6 hole Octahedral Green 13 iii) Sodium 6 hole Octahedral gray/grey 14 iii) Placed in resealable plastic bags II. II. II. I. Links/Bonds Color Quantity (pc) 14 ii) Placed in resealable plastic bag Silver 14 ii) Placed in resealable plastic bag Color Quantity (pc) i) Graphite corystal model (45 atoms) + links = 100 pc pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. I. Element Number of holes Color Quantity (pc) i) Carbon 5 hole Black 39 ii) ii) P	3		i) Carbon		_	-		(pc)	
I. Links/Bonds Color Quantity (pc) i) Medium Grey White 40 Links/Bonds ii) Placed in resealable Plastic bag iii) Placed in resealable Plastic bag b) Sodium chloride (NaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. I. Element Number of Moles Shape Color Quantity (pc) i) Chlorine 6 hole Octahedral Green 13 ii) Sodium 6 hole Octahedral Green 14 iii) Sodium 6 hole Octahedral Green 14 iii) Sodium 6 hole Octahedral Green 14 iii) Placed in two (2) separate resealable plastic bags II. Inteks/Bonds Color Quantity (pc) i) Medium Grey white 54 15 19 Pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. I. Element Number of holes Black 39 ii) Placed in resealable plastic bag II. I. Element holes Color Quantity (pc) i) Coroon 5 ho						retraileure	u Diack		
i) Medium Grey White 40 Links/Bonds ii) Placed in resealable Plastic bag b) Sodium chloride (NaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. Element Number of ii) Sodium 6 hole Octahedral Green iii) Sodium 6 hole Octahedral Green 13 iii) Sodium 6 hole Octahedral Silver 14 iii) Placed in two (2) separate resealable plastic bags II. II. II. II. Grey white 54 Statement Statement iii) Placed in resealable plastic bag II. Grey white 54 iii) Placed in resealable plastic bag Color Quantity (pc) i) Medium Grey white 54 II. Pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. I. Element Number of holes Black 39 ii) Placed in resealable plastic bag II. Iii) Placed in resealable plastic bag II. I. Links/Bonds Color Quantity (pc) I) I) I)			II.						
Links/Bonds				S				y (pc)	
ii) Placed in resealable Plastic bag b) Sodium chloride (KaCl)-i/onic crystal model (27 atoms)+links= 81 pc I. Element Number of shape Color (pc) i) Chlorine 6 hole Octahedral Green 13 ii) Sodium 6 hole Octahedral Green 13 ii) Sodium 6 hole Octahedral gray/grey 14 iii) Placed in two (2) separate resealable plastic bags II. Links/Bonds Color Quantity (pc) i) Medium Grey white i) Placed in resealable plastic bag I. Corp Graphite - covalent crystal model (45 atoms) + links = 100 pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. I. Element Number of holes Black 39 ii) Placed in resealable plastic bag II. I. I. I. I. I. I. I. <t< td=""><td></td><td></td><td></td><td>8</td><td>Grey White</td><td></td><td>40</td><td></td><td></td></t<>				8	Grey White		40		
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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			- /	inks= 81 p	с				
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ii) Sodium 6 hole Octahedral gray/grey 14 iii) Placed in two (2) separate resealable plastic bags II. I. Intervention Grey white 54 ii) Placed in resealable plastic bag Grey white 54 ii) Placed in resealable plastic bag Color Quantity (pc) i) Medium Grey white 54 ii) Placed in resealable plastic bag Color Quantity (pc) i) Caraphite - covalent crystal model (45 atoms) + links = 100 pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. Element holes Color Quantity (pc) i) Carbon 5 hole Black i) Carbon 5 hole Black 39 ii) Placed in resealable plastic bag II. II. Links/Bonds Color Quantity (pc) i) Long connectors Grey/ white 15 ii) Medium connectors Grey/ white 46 iii) Placed in two (2) separate resealable plastic bag d) Copper - metallic crystal model/ 14 atoms + links = 50 pc Crystal structure : face center cubic			i) Chlorine			edral			
iii) Placed in two (2) separate resealable plastic bags II. i) Medium Color Quantity (pc) i) Medium Grey white 54 ii) Placed in resealable plastic bag			ii) Sodium	6 hole	Octah	edral		14	
II. II. Links/Bonds Color Quantity (pc) i) Medium Grey white 54 ii) Placed in resealable plastic bag c) Graphite - covalent crystal model (45 atoms) + links = 100 pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. Element Number of Color Quantity (pc) i) Carbon 5 hole Black 39 ii) Placed in resealable plastic bag II. Links/Bonds Color Quantity (pc) i) Long connectors Grey/ white 15 ii) Medium connectors Grey/ white 46 (single, rigid) Grey/ white 46 iii) Placed in two (2) separate resealable plastic bag d) Copper - metallic crystal model/ 14 atoms + links = 50 pc Crystal structure : face center cubic			,			ι.		L	
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pc This kit is designed to make a three layer model of graphite having 15 carbon atoms in each layer. I. Image: Color designed to make a three layer model of graphite having 15 carbon atoms in each layer. i. Image: Color designed to make a three layer model of graphite having 15 carbon atoms in each layer. i. Image: Color designed to make a three layer model of graphite having 15 carbon atoms in each layer. i. Image: Color designed to make a three layer model of graphite having 15 carbon atoms in each layer. ii) Carbon designed to make a three layer model of graphite having 15 carbon designed to make a three layer designed to make theree layer designed to make a three layer de						model (45	atoms)+	links = 100	
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(single, rigid) iii) Placed in two (2) separate resealable plastic bag d) Copper - metallic crystal model/ 14 atoms + links = 50 pc Crystal structure : face center cubic			ii) Medium c	onnectors					
d) Copper - metallic crystal model/ 14 atoms + links = 50 pc Crystal structure : face center cubic								10	
Crystal structure : face center cubic			d) Conner	two (2) sepa	arate resealat	del/14 o	bag toms + lin	ks = 50 pc	
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								•	

Design Specifi	cations:				
1. Type : Ball	l and stick				
2. Shape of at	om parts : S	olid sphe	eres		
3. Material of		Plastic			
4. Diameter of					
a) Hydrogen			17-17 5	mm	
b) Other ato:			. 17-17.5		
					1
5. Material of 1	links: Flexib	le plastic	c low dens	ity polyetny	lene
(LDPE) solid li	nks				
6. Length, col		tity of s	olid links/	rods	
a) Short lin					
i) Type	: For s	pace filli	ng		
ii) Leng	gth : 11-12	mm			
ii) Colo		slucent/	white		
,	ntity: 60 pc	,			
b) Medium					
i) Type		e rigid			
	th : 27-28	111111			
iii) Colo					
	tity: 60 pc				
c) Long link	S				
i) Type	: Doub	le/triple	/flexible		
ii) Lengtl	h : 43-44	mm			
iii) Color					
,	tity: 30 pc				
7. With 126 at		itale 150) linke an	d 1 short li	ık remover
tool			, mino all	a i Short III	
	io longonio r	n a la a 1 a	n madal ac	tia aammaa	ad of the
8. The inorgan	ne/organic f	noiecula	i mouel se	t is compos	scu of the
following:					
1.			.	-	
Shape	No. of Holes	Angles	Element/ atom	Color	Quantity (pc)
Shape	noies	Angles	atom	0.001	(pc)
a) Tetrahedral	4 holes	109°28'	Carbon	Black	30
b) Trigonal	5 holes	90°/120°	Carbon	Black	8
c) Linear	2 holes	180°	Carbon	Black	2
d) Trigonal	3 holes	120°	Carbon	Black	6
bipyramidal e) Divalent	2 holes	105°	Oxygen	Red	14
f) Monovalent	1 hole	103	Hydrogen	White	45
		1008001	Nitrogen	Blue	4
g)Tetrahedral	4 holes				
g)Tetrahedral h)Divalent	4 holes 2 holes	109°28' 105°			1
g)Tetrahedral h)Divalent i) Tetrahedral	4 holes 2 holes 4 holes	109°28 105° 109°28'	Sulfur Sulfur	Yellow Yellow	
h)Divalent	2 holes	105°	Sulfur	Yellow Yellow	1
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent	2 holes 4 holes	105° 109°28' 109°28' 180°	Sulfur Sulfur	Yellow Yellow	1 1 4 8
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral	2 holes 4 holes 4 holes	105° 109°28' 109°28'	Sulfur Sulfur Phosphorus	Yellow Yellow Purple	1 1 4 8 2
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent	2 holes 4 holes 4 holes 1 hole	105° 109°28' 109°28' 180°	Sulfur Sulfur Phosphorus Chlorine	Yellow Yellow Purple Green	1 1 4 8
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom	2 holes 4 holes 4 holes 1 hole 6 holes	105° 109°28' 109°28' 180°	Sulfur Sulfur Phosphorus Chlorine	Yellow Yellow Purple Green Silver/grey	1 1 4 8 2
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 300	2 holes 4 holes 4 holes 1 hole 6 holes	105° 109°28' 109°28' 180° 90°	Sulfur Sulfur Phosphorus Chlorine Metal	Yellow Yellow Purple Green Silver/grey Grey	1 1 4 8 2 1
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals	2 holes 4 holes 4 holes 1 hole 6 holes) pc Lengt	105° 109°28' 109°28' 180° 90°	Sulfur Sulfur Phosphorus Chlorine Metal	Yellow Yellow Purple Green Silver/grey Grey Quant	1 1 4 8 2 1 1 ity (pc)
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals a) Pi orbita	2 holes 4 holes 4 holes 1 hole 6 holes) pc Lengti als 38 mr	105° 109°28' 109°28' 180° 90° hs	Sulfur Sulfur Phosphorus Chlorine Metal Color purple	Yellow Yellow Purple Green Silver/grey Grey Quant	1 1 4 8 2 1 1 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbita	2 holes 4 holes 4 holes 1 hole 6 holes) pc Lengti als 38 mr	105° 109°28' 109°28' 180° 90° hs n m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink	Yellow Yellow Purple Green Silver/grey Grey Quant	1 1 4 8 2 1 1 ity (pc)
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals a) Pi orbita	2 holes 4 holes 4 holes 1 hole 6 holes) pc Lengti als 38 mr	105° 109°28' 109°28' 180° 90° hs n m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple	Yellow Yellow Purple Green Silver/grey Grey Quant	1 1 4 8 2 1 1 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbita	2 holes 4 holes 4 holes 1 hole 6 holes) pc Lengt als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc)
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 30 Orbitals a) Pi orbitals b) Pi orbitals c) P orbita d) P orbital	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc) 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 30 Orbitals a) Pi orbitals b) Pi orbitals c) P orbital d) P orbital e) P orbital	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m ls 38 m ls 38 m	105° 109°28' 109°28' 180° 90° 90° hs n m m m m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 40 Orbitals a) Pi orbita b) Pi orbita c) P orbita d) P orbita e) P orbita III. Links (repr	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m ls 38 m ls 38 m ls 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m m s bonds):	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link	Yellow Yellow Green Silver/grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 30 Orbitals a) Pi orbitals b) Pi orbitals c) P orbital d) P orbital e) P orbital	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m ls 38 m ls 38 m ls 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m m s bonds):	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link	Yellow Yellow Green Silver/grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbital d) P orbital e) P orbital II. Links (repr Material of bor	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m als 38 m ls 38 m ls 38 m ls 38 m ls 38 m ls 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs m m m m t bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 40 Orbitals a) Pi orbita b) Pi orbita c) P orbita d) P orbita e) P orbita III. Links (repr	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m m t t bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 30 Orbitals: 40 pi orbitals c) P orbitals c) P orbital e) P orbital III. Links (repr Material of bor Links	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 30 Orbitals: 40 Pi orbitals c) P orbital c) P orbital e) P orbital III. Links (repr Material of bon Links a. Medium	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs n m m m bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent l) Octahedral m) Divalent atom II. Orbitals: 30 Orbitals: 30 Orbitals: 40 pi orbitals c) P orbitals c) P orbital e) P orbital III. Links (repr Material of bor Links	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs m m m m t bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals d) P orbitals e) P orbitals d) P orbitals d	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° hs n m m to bonds): Rigid, no: l Leng 27m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant Quant exible plasti	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 30 Orbitals a) Pi orbitals b) Pi orbitals c) P orbital d) P orbital e) P orbita d) P orbita e) P orbita III. Links (repr Material of bon Links a. Medium Links b. Long	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° hs n m m m bonds): Rigid, no:	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant Quant	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals d) P orbitals e) P orbitals d) P orbitals d	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° hs n m m to bonds): Rigid, no: l Leng 27m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant Quant exible plasti	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals d) P orbitals e) P orbitals III. Links (repr Material of bon Links a. Medium Links b. Long Links	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 18 m	105° 109°28° 109°28° 180° 90° hs n m m to bonds): Rigid, no: 1 Leng 27m 43m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle	Yellow Yellow Green Silver/grey Grey Quant Quant Color Grey Grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals a) Pi orbita b) Pi orbita c) P orbita d) P orbita d) P orbita HI. Links (repr Material of bor Links a. Medium Links b. Long Links c. Short	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 58 m ls 38 m ls 58	105° 109°28' 109°28' 180° 90° hs m m m m s bonds): 1 Leng 27m 43m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals d) P orbitals e) P orbitals III. Links (repr Material of bon Links a. Medium Links b. Long Links	2 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 18 m	105° 109°28° 109°28° 180° 90° hs n m m to bonds): Rigid, no: 1 Leng 27m 43m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m	Yellow Yellow Green Silver/grey Grey Quant Quant Color Grey Grey Grey	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 50	105° 109°28' 109°28' 180° 90° hs n m m m tobonds): Rigid, no: 1 Leng 27m 43m 11m	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 4 b) Pi orbita c) P orbita d) P orbita d) P orbita d) P orbita e) P orbita III. Links (repr Material of bor Links a. Medium Links b. Long Links c. Short Links 9. One (1) pc I	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° hs n m m toonds): Rigid, no: 1 Leng 27m 43m 11m tool/As	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 30 Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals c) P orbitals d) P orbitals d) P orbitals c) P orbitals f) P orbitals c) P orbitals f) P orbitals c) P orbitals f) P orbitals c) P orbitals f) P orbitals	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° ths th s <p< td=""><td>Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to</td><td>Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white</td><td>1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5</td></p<>	Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 30 Orbitals: 30 O	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° ths th s <p< td=""><td>Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to</td><td>Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white</td><td>1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5</td></p<>	Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 30 Orbitals: 30 O	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° ths th s <p< td=""><td>Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to</td><td>Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white</td><td>1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5</td></p<>	Sulfur Sulfur Phosphorus Chlorine Metal Chlorine Metal Metal Chlorine Metal Metal purple pink beige 150 link n-toxic Fle gth m m Trans- sembly to	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey Grey hslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral i) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals: 3C Or	2 holes 4 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° ths m m toolds): Rigid, no: I Leng 27m 43m tool/As box: ABS	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth um traine sembly too S plastic	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey aslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 5 5 5 5 5 5 5 5
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals: 3C Orbitals a) Pi orbitals: 3C Orbitals b) Pi orbitals: 3C Orbitals c) P orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Divalent b) Pi orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Orbitals: 3C Divalent a) Pi orbitals: 3C Divalent b) Pi orbitals: 3C Orbitals: 3C	2 holes 4 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m 1 hole 6 holes 0 pc Lengtl als 38 m 1s 38 m 1	105° 109°28' 109°28' 180° 90° hs n m m m toolds): Rigid, no: l Leng 27m 43m tool/As box pox: ABS original	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m Tran sembly to S plastic copy of	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey aslucent/ white	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 60 30 60 30 60 30 60
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral j) Tetrahedral j) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals: 3C	2 holes 4 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28° 109°28° 180° 90° hs m m m m toolds): Rigid, no: l Leng 27m 43m tool/As box: box: oox: ABS original nit, like	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m m Tran sembly to S plastic copy of DOST ma	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey hslucent/ white ol	1 1 4 8 2 1 ity (pc) 5 5 5 5 5 60 30 60 30 60 and the set of t
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral i) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals a) Pi orbita b) Pi orbita c) P orbita d) P orbita e) P orbita III. Links (repr Material of bon Links a. Medium Links b. Long Links c. Short Links 9. One (1) pc I 10. With dural a) Materiai b) Color: C c) Submis issued by t or at any D	2 holes 4 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs m m m m m m m fl Leng 27m 43m tool/As box oox: ABS original nit, like ited test	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle th m m Trans sembly to S plastic copy of DOST mains institu	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey color Grey color drey color drey color drey color drey color	1 1 4 8 2 1 ity (pc) 5 5 60 30 60 30 60 and for the second sec
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral i) Octahedral m) Divalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals c) P orbitals d) P orbitals d) P orbitals c) P orbitals for a links for a links	2 holes 4 holes 4 holes 4 holes 6 holes 0 pc Lengtl als 38 m ls 38	105° 109°28' 109°28' 180° 90° ths n m m m m m m m m m m m m m m m m m m f Leng 27m 43m 27m 43m tool/As box box: ABS original nit, like ited test there ited test	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink purple pink beige 150 link n-toxic Fle gth m tm Trans- sembly too S plastic . copy of DOST main ing institu	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey hslucent/ white ol	1 1 4 8 2 1 ity (pc) 5 5 5 60 30 60 30 60 and for the second se
h)Divalent i) Tetrahedral j) Tetrahedral j) Tetrahedral k) Monovalent atom II. Orbitals: 3C Orbitals a) Pi orbitals b) Pi orbitals c) P orbitals d) P orbitals c) P orbitals d) P orbitals d) P orbitals c) S orbitals c) Sobritals c) Submission c) Submission issued by to or at any C material of butadiene	2 holes 4 holes 4 holes 4 holes 1 hole 6 holes 0 pc Lengtl als 38 m ls 38 m	105° 109°28' 109°28' 180° 90° hs m m m m m m m c bonds): 27m 43m c 11m c tool/As box por: original nit, like ited test tmentali 3S), to	Sulfur Sulfur Phosphorus Chlorine Metal Color purple pink beige 150 link n-toxic Fle gth m m Trans- sembly too S plastic . copy of DOST main ing institu zed storagivalidate t	Yellow Yellow Purple Green Silver/grey Grey Quant Quant Color Grey Grey Grey Grey hslucent/ white ol the Test c aterial testin tion attestin ge box, is A he conform	1 1 4 8 2 1 ity (pc) 5 5 5 60 30 60 30 60 sng facilities ng that the crylonitrile nity of the

		Procuring Entity should be present during preparation and	
		submission of the material test specimens to testing facility. All	
		expenses for the said test shall be shouldered by the Supplier,	
		with the following dimensions:	
		a) Length : 238-239 mm	
		b) Width : 167-168 mm	
		c) Thickness : 68-70 mm	
		11. With contents/ list of materials, in table form, as :	
		a) For atoms: quantity, name of element(symbol), color code, (number of holes, type of bond angles), diameter of the	
		sphere	
		b) For links; bond types and	
		12. With Assembly guides, Individual Worksheets and	
		Instructional leaflets	
		13. With User's Manual/Teacher's Manual in English with full	
		background	
		information	
		14. For numbers #12 to 13; technical specifications (a-e) must be	
		strictly	
		followed:	
		a) For Contents/ List of materials, In Table form	
		b) For User's Manual, Instruction Sheets/Assembly Guides, In	
		sentences	
		format	
		i) With sentences grammatically correct and	
		ii) With correct spelling and terminologies, punctuations and	
		others	
		c) In original print, not photocopied	
		d) With colored pictures, drawings/illustrations	
		e) in 0.3 mm minimum thickness plastic laminated that shall	
		contain	
		the actual-colored picture of the model including the name	
		labeled	
		with the required parts with details as follows:	
		i) Paper Size: A4 size, 80 gsm ii) Font: Times New Roman	
		iii) Font size: 12	
		iv) Margins on all sides with 2-point width border line	
		v) Line with arrow head of 1.25 point with width shall point	
		to the	
		specific part being labeled"	
		15. Comes with a brand marked permanently on the box	
		16. Must be brand new	
	Model, Sublevel	Functional Specifications: Used as a visual representation of the	
	Orbitals of the Atom	spatial three-dimensional (3D) model of the shapes of the orbitals	
	(Quantum)	(azimuthal quantum number) of the sublevels of the major energy	
		levels of the first ten elements of the Periodic Table	
		Performance Specifications: Must be able to:	
		A) visually represent the spatial three-dimensional (3D) model of	
		the shapes of the orbitals to describe the quantum mechanical	
		model (azimuthal quantum model) of the first ten elements in the	
		Periodic Table	
		a) two (2) pc s orbitals	
		i)1s-orbital and	
		ii)2s-orbital,	
		b) the three (3) p orbitals	
		i) 2p _x -orbital	
5		ii) 2py-orbital, and	
		iii) $2p_z$ -orbital	
		c) the position and number of electrons along the x, y and z axis	
		d) the orbitals of the sublevels of the major energy levelsB) Assemble the sublevel orbital of the first ten elements of the	
		Periodic Table based on the electronic configuration of each, to	
		review on the four (4) quantum numbers and rules in filling up the	
		orbitals (the Aufbau Principle, Pauli's exclusion principle, and	
		Hund's rule), to study and learn the correct position and number	
		of electrons along the x, y and z axis, as well as the orbitals of the	
		sublevels of the major energy levels	
		Design Specifications:	
		1. With 12 Models of the Sublevel orbitals of the atom	
	1		1
		2. With color-coded components which include the following:	
		 With color-coded components which include the following: ORBITALS 	

a) 1s-orbitals (K shell)		
Shape of 1s orbital: small sphere		
Material: Plastic		
Color: Blue		
Quantity: 12 pc		
b) 2s-orbitals (L shell)		
Shape of 2s orbital: Large sphere		
Material: Plastic		
Color: Orange		
Quantity: 12 pc		
c) p-orbitals (M shell)		
i) p_x -orbitals		
Shape of orbital: Pear shaped lobes		
Material: Plastic		
Color: Red		
Quantity: 24 pc		
i) p _y -orbitals		
Shape of orbital: Pear shaped lobes		
Material: Plastic		
Color: Yellow		
Quantity: 24 pc		
iii) p _z -orbital		
Shape of orbital: Pear shaped lobes		
Material: Plastic		
Color: Green		
Quantity: 24 pc		
d) Bases		
Shape: Spherical		
Material: Plastic		
Color: White		
Quantity: 12 pc		
e) Crossbars (x and z axes)		
Shape: Cross-shaped		
Material: Durable non-toxic plastic		
Color: White		
Quantity: 12 pc		
f) Electrons		
,		
Shape: Small circular cutouts in a plastic sheet		
Material: Plastic		
Color: Black		
Quantity: 1 whole plastic sheet with cut out 128 pc electrons		
g) Uprights (y axes)		
Shape: Long, cylindrical sticks		
Material: Plastic		
Color: Cream		
Quantity: 12 pc		
4. Individually packed per item as segregated above in separate		
resealable plastic bags		
5. With durable plastic storage box		
a) Material: ABS plastic		
b) Color: Grey		
c) Submission of the original copy of the Test certificate/s		
issued by the testing unit, like DOST material testing facilities or		
at any DOST-accredited testing institution attesting that the		
material of the storage box, is Acrylonitrile butadiene styrene		
(ABS), to validate the conformity of the material to the technical		
specifications. A representative of the Procuring Entity should be		
present during preparation and submission of the material test		
specimens to testing facility. All expenses for the said test shall be		
shouldered by the Supplier.		
6. With List of Contents in the set		
7 With Teacher's Guide		
8. With 30 Student Worksheets and Guides, Part I and Part II		
9. With quantum numbers chart provided on each student		
worksheet to		
help students assemble the models starting with the 1s		
orbitals.		
10. Detailed instructions provided.		
11. For numbers 6-10, the following technical specifications from		
(a-e) must be followed:		
a) For Contents/ List of materials, In Table form		
b) For User's Manual, Teacher's Guide, Student Worksheets,		
Instruction Sheets/Assembly Guides, In sentences format		
	1	
i) With sentences grammatically correct and		

	1	1				
	Model, VSEPR, 14 shapes (50-pc)	others c) In origin d) In colore e) in 0.3 m that shall of including t as follows: i) Paper ii) Font iii) Font iii) Font iii) Font iv) Orie v) Marg vi) Line to the s 12. Must be f edges, all sur herein 13. Comes wi 14. Must be l Functional Sj of the 14 diffe angles to pert b) describe th Performance A) Must be al	al print, not j ed pictures, d um minimum contain the ac the name: lat r Size: A4 size : Times New I t size: 12 ntation: Portu- gins on all sid with arrow h specific part b free from brea face irregular ith a brand m pecifications: erent shapes form exercise the geometry o Specifications	photocopied lrawings/illustr thickness plast ctual-colored pi- beled with the re- e, 80 gsm Roman rait es with 2-point head of 1.25 poi- being labeled akage, cracks, c rities and all oth harked permane a) Used as a vi- of simple mole s on VSEPR the f simple compor- s:	ic laminated keycar cture of the model equired parts with o width border line nt with width shall hipped rims, sharp her defects not state ently on the box isual 3D representa cory using models unds	rd details point ed
		a) represent	t all the 14 di	fferent shapes o	of simple molecules	
		-	0 0	-	es on VSEPR theory	У
				of simple comp nt shapes of VS	oounds EPR Models and st	tudy
		b) Other at 5. The VSEPF	and stick tom parts: So f spheres: Pla of sphere/ato n, halogen, a coms: 23-23.5 R Theory mod	stic m nd metal sphere 5 mm	e/atom: -17-17.5 m sed of the following 'SEPR shapes;	
		Color	Number of Holes	Shapes	Example	
6		metallic grey	2 holes	Linear	(e.g., beryllium in BeCl2)	
		Yellow	3 holes	Trigonal	(e.g., sulfur in SO3)	
		Yellow	3 holes	Trigonal	(e.g., sulfur in SO2)	
		Black Yellow	4 holes 4 holes	Tetrahedral Tetrahedral	(e.g., carbon in CH4) (e.g., sulfur in SO3	
		Red	4 holes	Tetrahedral	2-) (e.g., oxygen in H2O)	
		Light green	4 holes	Tetrahedral	(e.g., fluorine in HF)	
		Light brown	5 holes	Trigonal bipyramidal	(e.g., phosphorus inPCL5)	
		Yellow	5 holes	trigonal bipyramidal	(e.g., sulfur in SF4)	
		Green	5 holes	trigonal bipyramidal	(e.g., chlorine in ClF3)	
		Purple	5 holes	trigonal bipyramidal	(e.g., xenon in XeF2)	
		grey	6 holes	octahedral	(e.g., metal complexes)	
		Brown	6 holes	octahedral	(e.g., bromine in BrF5) (e.g., copper	
		copper	6 holes	octahedral	complexes)	
		b. With the Quantity (j	e following lin	iks/bonds:	Bond	
	l	Quantity (r-)		20114	

						· · ·		
			50	Grey medium	Single bond			
			15	Purple medium	Lone pair			
			6	White short links	Cyanide group			
			6. Comes with short					
			7. With durable plas	0				
			a) Material: ABS p	plastic				
			b) Color: Grey c) Submission of	the original copy of t	the Test certificate /			
			issued by the testing					
			at any DOST-accred					
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			butadiene styrene (A					
			to the technical spec					
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			the material test spe said test shall be sh			or the		
			8. With contents/ lis					
			9. With detailed ass			8		
			provided.	5.5				
			10. With assembly g	uides, individual wo	orksheets and instru	actional		
			leaflets	1 /				
			11. With User's Man	ual/Teacher's instru	uction manual in Er	nglish		
			with full b background informa	tion				
			12. For numbers #8		cifications (a-e) mus	t be		
			strictly followed:	to to technical spec	ancadono (a-c) mus			
			5	ist of materials, In 1	Table form			
			b) for User's Manı	ual, Instruction Shee	ets/Assembly Guide	es, In		
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			others	t spelling and termin	nologies, punctualio	ons and		
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			,	arrow head of 1.25				
				width shall point to				
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			edges, all surface irr					
			herein					
			14.Comes with a bra	· ·	ently onto the box			
			15. Must be brand r	iew				
	FORC	E, MOTION, AND ENER		tional and to do	notroto the select	ahin	T	
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		LICCHOMAGNEUSIII All	Serween electricity a	ing magneusin				
			Performance Specifi	cations: should be a	ble to demonstrate t	the		
			relationship between					
			Design Specification					
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				ompass, 18-20 mm	diameter, correct			
			orientation of N-	S poles	<i>.</i> .	W OC		
			orientation of N- c. 2 -U-Magnets	S poles , 5.98-6 mm X 15-1				
			orientation of N- c. 2 -U-Magnets 100 mm long, ja	S poles	m; magnet strength	: can		

3 of the magnet; correctly labeled and or other coded to indicate for indicate field sector indicates in the indicates of the magnetic lines c. 1 = spool magnet wire infaultation coastal #20, 500 g. f. 2 = spool magnet wire infaultation coastal #20, 500 g. f. 2 = spool magnet wire infaultation coastal #20, 500 g. f. 2 = spool magnet wire infaultation coastal #20, 500 g. f. 2 = spool magnet wire infaultation coastal #20, 500 g. f. 2 = spool wire solid, #14, insulated, 14.5.15 cm is cm wire. h. 3. wood blocks 23.25 mm X.73-75 mm X.95-100 mm with phit boles that must through center of block. 2. With solid boles and the specific container Punctional Specifications: Used to blow air into light ball to keep them airborne to demonstrate Bernoullis principle. Periority and specifications: Used Co Bis power anapple, 5 to 12000 RMM models and the specifications: Used Co Bis power anapple, 5 to 12000 RMM models and the specifications: Used Co Bis power anapple, 5 to 12000 RMM models and the specifications: Used Co Bis power anapple, 5 to 12000 RMM models and the specifications: Used Co Bis power anapple, 5 to 12000 RMM models and the specifications and the specification and specification and the specification and specification an				r	
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3 Intring viscous injuid, should clearly show magnetic lines c. 1 - spot manyer were insult and the source of the many source of the source o					
4 c. 1 - spöcel magnet wire (insulation costed) #20, 500 g. c. 1 - spöcel magnet wire (insulation costed) #20, 500 g. 1 store of 10. 5. 12 mm index 398.100 mm with pilot boles that run through center of block 2. Some of block 32.32 mm with pilot boles that run through center of block 2. Comes with plassic container that can accommodate the items indicated above. 3. Brand format. 3. Brand format. Brand format. 4. P Elower The advectionar: Should be able to blow air into light balls to keep them airborne to demonstrate Formality principle. 2 Design Specifications: bloud be able to blow air into light balls to keep them airborne to demonstrate Formality principle. 2 Design Specifications: 1. Electric air blower with variable speed control, volute type, 400 W motor rating, 220 to 240 VAC 60 Its power supply, 0 to 12000 RPM 2. With Carbon temperature that induces operation guide the spectrum theorem themperature that object and that induces onlyme of liquid equid to the volume of the immersed object and that the spectrum line ables to explore the sequence of the sequence of the sequence object. 3 Archimedes Principle Functional is specifications: Should be able to visually demonstrate that object is minored object and that the specifications of volume of the immersed object and that the sequence object is equal to the weight of the immersed object and that the sequence object is equal to the weight of the immersed object is angle able to evisually demonstrate that object is immersed is ables to lease the sequal to the weight of the sequence					
3 i. sizel rof 10.5.12 mm dia x 98:100 mm long g. 2 -copper visc solid, 24.5.15 cm long ach wire b. hole that run through center of block. Comes with plastic container that can accommodate the items indicated above. Brand permanently marked on plastic container Ait Blower Ait Blower Performance Specifications: Should be able to blow air into light balls to keep them aithorne to demonstrate Bernoullis principle. Design Specifications: Should be able to blow air into light balls to keep them aithorne to demonstrate Bernoullis principle. Design Specifications: Should be able to blow air into light balls to keep them aithorne to demonstrate Bernoullis principle. Design Specifications: Should be able to blow air into light balls to keep them aithorne to demonstrate Bernoullis principle. With English User's Manual that includes operation guide 3. With carbon transport hox With English User's Manual that includes operation guide 3. With carbon transport hox Burnet on all specifications: Should be able to blow air into light With English User's Manual that includes operation guide 3. With carbon transport hox Burnet operation state of used to the use and equals to the volume of the immersed object is equal to the weight of the displaced liquid Performance Specifications: Should be able to able to the solid that the apprent hoss of weight of the immersed object is equal to the weight of the displaced liquid Performance specifications: Description of the light solid that the apprent hose of weight of the immersed object is equal to the weight of the displaced liquid Performance specifications: Transporent buckeet with handle stainlesstof to be loweith ucket representi					
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Dimensions: 58-60 mm width x 78-80 mm length x 4.5-5 mm height 2. Component name and symbol should be permanent (embossed					
height 2. Component name and symbol should be permanent (embossed					
2. Component name and symbol should be permanent (embossed					
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or etcned) and painted black on conspicuous location on board.					
			or elected) and painted black on conspicuous location on board.		

		 3. With external binding post connectors that can accommodate 4 mm banana plugs, color coded encapsulation: black for negative, red for positive, yellow for non-polar terminals 4. The Kit should contain the following: 	
		a. 5-Resistors: $(2-100 \ \Omega, 2 \text{ watts}; 1-1000 \ \Omega, 2 \text{ watts}; 1-10 \ k\Omega, 2 \text{ watts}; 1-100 \ k\Omega, 2 \text{ watts})$, binding post terminals: all yellow 2-Rectifier Diodes, IN 4002, binding post terminals: black for	
		negative, red for positive1-LED, large size, binding post terminals: black for negative, red for positive b. 1-NPN transistor, 2N3440 or 2N3439 or equivalent, binding post terminals: black for negative, red for positive	
		c. 2-Capacitor 1000 μ F (standard), 25 V, binding post terminals: black for negative, red for positive d. 1-Variable Resistor, large, rotary, carbon, 5 k Ω mono, binding	
		post terminals: all yellow 5. Items placed in plastic storage box, 1 box per set 6. Brand permanently marked on the item	
	Basic Lens Set, acrylic	Functional Specifications: Used to demonstrate refraction of light	
		Performance Specifications: Should be able to demonstrate refraction of light	
		Design Specifications: 1. Set of 7 lenses, acrylic material (subject to material testing at DOST or any DOST accredited testing facilities), secured in compartmentalized plastic storage box, with the following types and diameters:	
5		1-double convex, 48-52 mm diameter 1-plano convex, 48-52 mm diameter 1-double concave, 48-52 mm diameter	
		1-plano concave, 48-52 mm diameter 1-convex-concave lens, 48-52 mm diameter	
		 1-concave-convex lens, 48-52 mm diameter 1-double convex lens, 73-77 mm diameter 2. Must be contained in one plastic storage box. 	
		 No sharp edges. Free from toxic materials certification Brand name permanently marked on storage box 	
	Coefficient of Linear Expansion	Functional Specifications: Used to verify coefficient of linear expansion of some metals	
		Performance Specifications: Should be able to verify coefficient of linear expansion of some metals	
		Design Specifications: 1. With steam jacket pipe, made of brass, 498-500 mm long x 23- 5. mm dia might and analytic might attackment take for	
6		25 mm dia., with steam inlet and outlet, with attachment tube for inserting rubber stopper which in turn is inserted with thermometer	
		2. Steam jacket pipe supported by a rigid metal base; with alignment and lock mechanism when inserting expanding rod under study, 26.875-27in X 4.375-4.5in X 1.375-1.5in (L x W x T)	
		 3. With dial gauge 0-10 mm range, 0.01 mm readability 4. Supplied with 3.8-4 mm x 498-500 mm brass, copper, steel rods; rods should be free from sharp, pointed edges 	
		5. With English User's Manual that includes operation guide 6. Brand permanently marked on the item	
	Connector, Black (# 18 copper, AWG stranded) with	Functional Specifications: Used to effectively interconnect components in an electrical circuit	
7	alligator clip on one end and banana plug on the other end	Performance Specifications: Should be able to effectively interconnect components in an electrical circuit	
		Design Specifications: # 18 copper, AWG stranded, end to end 345-350 mm length, with insulated brass alligator clip, 18 mm - 20 mm jaw length, on one end and 4 mm brass banana plug, on	
		the other end soldered; all black	
	Connector, Red (# 18 copper, AWG stranded) with	Functional Specifications: Used to effectively interconnect components in an electrical circuit	
8	alligator clip on one end and banana plug on the other end	Performance Specifications: Should be able to effectively interconnect components in an electrical circuit	

		Design Specifications: # 18 copper, AWG stranded, end to end	
		345-350 mm length, with insulated brass alligator clip, 18 mm-20 mm jaw length, on one end and 4 mm brass banana plug, on the other end, soldered, all red	
	Connector, Yellow (# 18 copper, AWG stranded) with	Functional Specifications: Used to effectively interconnect components in an electrical circuit	
9	alligator clip on one end and banana plug on the other end	Performance Specifications: Should be able to effectively interconnect components in an electrical circuit	
		Design Specifications: # 18 copper, AWG stranded, end to end 345-350 mm length, with insulated brass alligator clip, 18 mm-20 mm jaw length, on one end and 4 mm brass banana plug, on the other end soldered, all yellow	
	DC Ammeter	Functional Specifications: Used to measure DC current in electrical circuit	
		Performance Specifications: Should be able to measure DC current in an electrical circuit	
10		Design Specifications: 1. Analog, dual range selectable: -0.2 - 0 - +0.6A/0.02 read; -1.0 - 0- +3.0A/0.1 read, ± 2.5% full scale, analog 2. Dial plate dimensions: 93-95 mm width x 83-85 mm length, 3. Overall encasement dimensions: 93-95 mm width x 128-130 mm depth x 93-95 mm height encasement material: plastic, any	
		 color 4. Binding post terminals, threaded, can accommodate 4 mm banana plug, brass material, color coded plastic insulation (black for negative or common terminal, red for positive terminal) 5. External zero-adjust calibration 6. With English User's Manual that includes operation guide 7. Brand permanently marked on the item 	
	DC String Vibrator, string included	Functional Specifications: Used to demonstrate standing waves on a string	
		Performance Specifications: Should be able to demonstrate standing waves on a string	
11		 Design Specifications: 1. Utilizes an offset-weighted shaft on a DC motor 2. Input voltage (0 volts -6 volts DC) 3. Vibration Frequency: controlled by stepless attenuator 4. With steel mounting platform, binding posts for external wire connection 6. With Operation Manual in English 7. Brand permanently marked on the item 	
	DC Voltmeter	Functional Specifications: Used to measure DC voltage across components in an electrical circuit	
		Performance Specifications: Must be able to measure DC voltage across components in an electrical circuit	
12		Design Specifications: 1. Analog, dual range selectable -1V -0- +3V/0.1 read-5 0- +15V/ 1.0 read ±2.5% full scale, analog 2. Dial plate dimensions: 93-95 mm width x 83-85 mm length,	
		 3. Overall encasement dimensions: 93-95 mm width x 128-130 mm depth x 93-95 mm height encasement material: plastic, any color 4. Binding post terminals, threaded, can accommodate standard 4 	
		 mm banana plug, brass material, color coded plastic insulation (black for negative or common terminal, red for positive terminal 5. External zero-adjust calibration 6. With English User's Manual that includes operation guide 7. Brand permanently marked on the item 	
	Diffraction slits & Diffraction grating Set	Functional Specifications: Used to investigate the concept of diffraction of light and to calculate wavelength of light of certain color through diffraction	
13		Performance Specifications: Should be able to investigate the concept of diffraction of light and to calculate wavelength of light of certain color through diffraction	

			<u>г </u>	
		Design Specifications:		
		The set is composed of:		
		1) Diffraction slits consist of:		
		1 frame single slit, 1 frame double slits; grating size: 34-36 mm x		
		16-18 mm; frame size: 48-50 mm x 48-50 mm x 1.98-2 mm thick		
		2) Diffraction Gratings consist of:		
		1 frame 50 lines/mm, 1 frame 100 lines/mm, 1 frame 300		
		lines/mm, 1 frame 600 lines/mm, grating size: 34-36 mm x 16-18		
		mm, frame size: 48-50 mm x 48-50 mm x 1.98-2 mm thick		
		3) Each frame placed in compartmentalized storage box4) Brand permanently marked on the item		
	Digital Geiger-Muller	Functional Specifications: is used to measure alpha, beta, and		
	Counter with	gamma radiation		
	radioisotopes	Samua radiation		
	samples	Performance Specifications: should be able to measure alpha,		
	_	beta, and gamma radiation		
		Design Specifications:		
		MAIN UNIT		
		1. Main unit: Digital Geiger-Muller Counter; measures alpha, beta, gamma radiation;		
		2. Manufacturer should be accredited by their respective Nuclear		
		Regulatory Institute/Agency and shall provide calibration		
		certificate for each item issued by the Nuclear Institute/Agency of		
		its country of origin.		
		3. Units of Measurement: milli Roentgen per hour (mR/hr), micro		
		Sievert per hour (µSv/hr), Counts per Minute (CPM), digital		
		readout 4. Range: 0.001 mR/hr to 1000 mR/hr		
		5. With provision for connecting to desktop/laptop PC, comes with		
		software and appropriate connectors		
		6. Dimensions: 4-7inches long x 3-4 inches wide x 1-2 inches		
		thick		
		7. Runs on dual power supply: dry cell and external power, comes		
		with dry cell and adapter for external DC input		
		8. With English User's Manual that includes operation guide		
		9. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall		
		contain the following:		
		I. Training Video Contents:		
		a. Name of the equipment		
1	4	b. Parts of the equipment		
		c. Instruction on how to use the equipment		
		d. Sample Experiment/Activity using the equipment		
		e. Maintenance of the equipment f. Troubleshooting		
		g. Storage and safekeeping (include cleaning) of the equipment		
		II. Training Video details:		
		a. Shall be in MP4 format.		
		b. Shall be saved in a USB 3.0 Flash Drive.		
		c. Shall have a High-Definition resolution of at least 1080p.		
		d. Shall have a readable subtitle (font style & size: Arial, 22		
		Bold) in English that is grammatically error-free and with		
		correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle.		
		e. Shall comply an aspect ratio of 4:3.		
		f. Shall have a cover video pane containing the equipment name		
		and a video pane for each video content.		
		g. The video, voiceover (audio), and subtitle shall be in sync.		
		h. The training video shall cover all the above requirement		
		(video contents).		
		10. The offered brand of the item must be an international brand.11. Brand permanently marked on the item.		
		Functional Specifications: is used to provide sources of alpha,		
		beta, and gamma radiations		
		Performance Specifications: should be able to provide sources of		
		alpha, beta, and gamma radiations		
		Design Specifications		
		Design Specifications: SET OF LEGAL RADIOISOTOPE SAMPLES		
		1. Set of sample legal radioactive sources, each is enclosed in a		
		permanently shield disk: 2.98-3 mm thick x 23-25 mm dia.		

18 2. Each disk is destified by radio sociale, amount of setting in microcure, addies of malation rech source of the source of					
15 The words "Caution - Radioactive Material" appear on the label of each source - Polonium 210 as per Appendix A training of Radioactive Material (CPR Part 02) 0.1 microcurie - Johns source - Folonium 210 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Radioactive Material (CPR Part 02) 0.1 microcurie - Johns source - Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute [PNR] Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute [PNR] Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute [PNR] Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute [PNR] Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Pail.piptic Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 microcurie - gamma source: Coluli 60 as per Appendix A (EXEMPT QUANTITISS OF RADIOACTIVE MATERIALS) of Radio Research Institute (PNR) Licensing of Radio Research Instecon (PNR) Licensing (PNR) (PNR) (PNR) (PNR) (PNR) (
10 eech source - alpha source: Polynium 210 as per Appendix A (PXFMPT QUANTITISS OF BAIDOACTIVE MATERIALS) of Polynetreal (CFP Net D2) 0.1 incrocuric - alpha source: Storahum 90 as per Appendix A (PXFMPT QUANTITISS OF BAIDOACTIVE MATERIALS) of Polynetreal (CFP Net D2) 0.1 Discource - bets source: Storahum 90 as per Appendix A (PXFMPT QUANTITISS OF FADOACTIVE MATERIALS) of Polynethyle Research Institute (PMR) Locensing of Radinactive Material (CPP Net D2) 11 Discource - bets source: Storahum 90 as per Appendix A (PXFMPT QUANTITISS OF FADOACTIVE MATERIALS) of Polynethyle and permanendly marked on the ferm, with English User's Maranal that includes operation guide (Parmanent and properly labeled, lathel are servich-resistant) 12 Dry Cell Holder (size D) Performance: Specifications: Used to securely mount size D dry cell in place 15 1 Single Indicer for size D dry cell in place 16 Der Gell Holder (size D) Performance: Specifications: Used to securely mount size D dry cell in place 16 Der Gell 1.5 volta, size D Performance: Specifications: Used to provide 1.5 volta DC power source for a basic clearcing in crust, therease: 1.68-2 mn S. Crust resistant when dropped from 91 cn height, mountel with dry cell; 6. Any color 16 Performance Specifications: Should be able to provide 1.5 volta DC power source for a basic clearcing in crust. Specifications: 1.0 crust sectoring in crust. Specifications: 1.0 crust sectoring in crust. Specifications: 1.0 crust sectoring in gene mixtures and c					
10 0.1 microcurie - alpha source: Polimium 210 as per Appendix A IEXXMPT QUARTIES OF RADOCATIVE MATERIALS) of Philippice Vuclear Research Institute [PRR] Licensing of Radioactive Material (CPP her 02) 10 microcurie - base source: Polimium 200 as per Appendix A IEXXMPT QUARTIES OF RADOCATIVE MATERIALS) of Philippice Vuclear Research Institute [PRR] Licensing of Radioactive Material (CPP her 02) 11 microcurie - base source: Polimium 200 as per Appendix A IEXXMPT QUARTIES OF RADOCATIVE MATERIALS) of Philippice Vuclear Research Institute [PRR] Licensing of Radioactive Material (CPP her 02) 12 Material Specifications: Used to accure provide A IEXXMPT QUARTIES OF RADOCATIVE MATERIALS) of Philippice Vuclear Research Institute [PRR] Licensing of Radioactive Material (CPP her 02) 13 Dey Cell Holder (size D) Provide material provide a source provide a sourc					
15 [PSCELTINE MATERIALS) of Philippine Sulcear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 0 and part paperdix A Badioactive Material (CPR Part 02) 1 microcurie - genema source: Cobal 60 as per Appendix A Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 microcurie - genema source: Cobal 60 as per Appendix A Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 as and builden Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 as and part interload appendix on part of the part of 1 as and part interload appendix on part of the part of 1 as and part interload appendix on part of the part of 1 as and part interload appendix on part of the part of 1 as and part interload appendix on part of the part of 1 as and part interload appendix and property labeled 1 as and part interload appendix as and property labeled 1 as and part of the part of the part of the part of 1 as and part of the part of the part of 1 as and part of the part of the part of 1 as and part of the part of 1 as					
16 Rediciettic Material (CRF Part 02) 0.1.microcurie - heta sources Strontum 90 as per Appendix A (EXEMPT QUANTITIES OF PADROATTRE MATERIALS) of Palippine Model (EXEMPT QUANTITIES OF PADROATTRE MATERIALS) of Palippine Miclear Research Institute (PNR) Licensing of Redicative Material (CRF Part 02) 16 Dry Cell Holder (size Dry Cell (size Stront) Strong (specifications: Should be store) to ever (size D dry cell in place Dry Cell (size Strong (specifications: Should be sale) to provide 1.5 volts DC power size D 16 Dry Cell (size D dry Cell Strong) (specifications: Should be sale) to provide 1.5 volts DC power source for a basic decirculal circuit Dry Cell (size D dry Cell (specifications: Should be sale) to provide 1.5 volts DC power source for a basic decircuial circuit Design Specifications: 1. Infrastry standard size D 1.5-volt dry cell Dry Dry Cell (size D dry Cell Specifications: 1. Infrastry standard size D 1.5-volt os simulate the operation of a 4- stroke cycle gasoline engine Dry Cell (size Specifications: 1. Infrastry standard size D 1.5-volt dry cell Dry Dry Cell (size Specifications: 1. Infrastry standard size D 1.5-volt dry cell Dry Dry Cell (size Specifications: 1. Infrastry standard size D 1.5-volt dry cell source for a should be sale) to simulate the operation of a 4-stroke cycle gasoline engine model				(EXEMPT QUANTITIES OF RADIOACTIVE MATERIALS) of	
15 0.1 microcarie - beta source: Strontium 90 as per Appendix A (EXEMPT QUARTITES OF FADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Locansing of Radioactive Material (CPR Part 02) LPKNMTP QUARTITES OF FADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Locansing of Radioactive Material (CPR Part 02) LPKNMTP QUARTITES OF FADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Locansing of Radioactive Material (CPR Part 02) LPKNMTP QUARTITES OF FADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Locansing of Radioactive Material (CPR Part 02) LPKNMTP QUARTITES OF FADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Locansing of Radioactive Material (CPR Part 02) LPK Cell Holder (size D) 15 Dry Cell Holder (size D) Functional Specifications: Used to securely mount size D dry cell in place 15 Design Specifications: 1. Single Holder for size D dry cell in place 16 Design Specifications: 1. Single Holder for size D dry cell in place 16 Design Specifications: 1. Single Holder for size D dry cell in place 16 Performance Specifications: Used to provide 1.5 volts DC power source for a basic cleatrical circuit Design Specifications: 1. industry standard size D J. Svolt dry cell 2. Functional Specifications: Used to provide 1.5 volts DC power source for a basic cleatrical circuit Design Specifications: 1. industry standard size D J. Svolt dry cell 2. Industry standard size D J. Svolt dry cell 2. Engine Model (Internal Combustion) 17 Engine Model (Internal Combustion) Functional Specifications: Should be able to simulate the operation of a 4-stroke cy					
15 Image: Construction of the construction of					
15 Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) 1 microcurie gamma source: Cobal 60 as per Appendix A Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) All 3 radioactive Material (CPR Part 02) Dy Cell Holder (size D) Dry Cell Holder (size D) Purceinand Specifications: Should be able to accurely mount size D dry cell in place Dy Cell Holder (size D) Purceinand Specifications: D dry cell, snap on type; 2. With built-in nickel plated brass place connectors; 3. Holder can be interconnected in series on parallel; 4. Plastic body, should be sturyt, thickness: 19.8-2 mm 5. Crack resistant when dropped from 91 cm height, mounted with dry cell; 5. Purceinand Specifications: Should be able to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: 1. Indicate for size D 1.5 volt dry cell 1. Indicate for size D 1.5 volt dry cell 1. Indicate for a basic electrical circuit Design Specifications: 1. Indicate specifications: Should be able to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: 1. Indicate specifications: Should be able to simulate the operation of a 4-stroke cycle gasoline engine model, Size 1. A stroke cycle gasoline engine model, Size 1. A stroke cycle gasoline engine model, Size 1. Cross section model of a 4-stroke cycle gasoline engine model, Size 1. A cost as decloss in different colors to indicate at in, Lei, and gas mixtures and exhaust gas contents. The carburder in shown in emperiment code stroke cycle gasoline engine model, Size 1. A cost as decloss in different colors to indicate at in, Lei, and gas mixtures and exhaust gas contents. The carburder in shown in emperiment contereity: crark case, crark shaft, cornect				0.1 microcurie - beta source: Strontium 90 as per Appendix A	
10 Radioactive Material (CFR Part C2) In microcuric -gamma source: Cobalt 60 as per Appendix A (DXXMPT QUAYITIES OF KADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Lecensing of Ball 3: additional oper samples stored in a safe box and properly labeled 10 3: Rand permanently marked on the item; with English User's Manual Hart includes operation guide (Permanent) and properly labeled 115 Dry Cell Holder (size 115 Performance Specifications: Should be able to securely mount size D dry cell in place 115 Dry Cell Holder (size 116 Dry Cell, 1.5 work, size D dry cell, snap-on type; 2. With built-in mickel platet brass plate connectors; 3: Bidler for size D dry cell in place 116 Dry Cell, 1.5 work, size D dry cell, snap-on type; 116 Dry Cell, 1.5 work, size D dry cell in snap-on type; 116 Performance Specifications: Used to provide 1.5 works DC power source for a basic cleetrical circuit 116 Performance Specifications: Used to provide 1.5 works DC power source for a basic cleetrical circuit 116 Performance Specifications: Used to provide 1.5 works DC power source for a basic cleetrical circuit 116 Performance Specifications: Used to provide 1.5 works DC power source for a basic cleetrical circuit 116 Performance Specifications: Should be able to si					
1 Inicrocurie gamma source: Cobali 60 as per Appendix A (RXEMP QUANTITIES OF RADIOACTIVE MATERIALS) of Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) All 3 radioisotope samples stored in a safe box and properly all readioactive Material (CPR Part 02) All 3 radioisotope samples stored in a safe box and properly labeled; labeles are carctar-resistant) Dry Cell Holder (size D) Provide (size D) Provide (size D) Provide (size D) Provide (size D) 15 Dry Cell Holder (size D) Provide (size D) Provide (size D) Provide (size D) Provide (size D) 16 Dry Cell, 1.5 volts, size D Single Holder for size D dry cell, snap-on type; . With built- in nicel parted brass plate connectors; . B. Holders can be interconnected in series or parallel; . Plate body, should be sturdy, thickness; 1.98-2 mm s. Crack resistant when dropped from 91 cm height, mounted with dry cell; D 16 Dry Cell, 1.5 volts, size D Performance Specifications: Used to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: I: industry standard size D. LS volt dry cell I: industry standard size D. LS volt dry cell D 16 Performance Specifications: Should be able to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: I: cross section model of a 4-stroke cycle gasoline engine Design Specifications: D. Lindustry standard size D. LS volt dry cell Design Specifications: D. Cross section model of a 4-stroke cycle gasoline engine Design Specifications: S. Unternid sections in differont cone to industre the operat					
15 Philippine Nuclear Research Institute (PNR) Licensing of Radioactive Material (CPR Part 02) All 3 radioisotope samples stored in a safe box and properly labeled 3, senual that includes operation guide (Permanent and properly labeled). 15 Dry Cell Holder (size D) Punctional Specifications: Used to securely mount size D dry cell in place 15 Dry Cell Holder (size D) Punctional Specifications: Should be able to securely mount size D dry cell in place 16 Design Specifications: 1. Single Holder for size D dry cell in place 16 Design Specifications: 2. With bubbic in micro plate drass place connectors; 3. Holders can be interconnected in series or parallel; 4. Plastic body, should be startly, frickness: 1.98-2 mm 5. Crack resistant when dropped from 91 cm height, mounted with dry cell; 6. Any cell: 16 16 Dry Cell, 1.5 volts, size D Performance Specifications: Should be able to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: 1. industry standard size D 1.5-volt dry cell 1. industry standard size D 1.5-volt dry cell 2. Combustion 16 Performance Specifications: Should be able to simulate the operation of a 4- stroke cycle gasoline cengite. 17 Performance Specifications: Should be adue to simulate the operation of a 4-stroke cycle gasoline engine model, Size: 1.357.1-4 inches x 7.475-8 inches x 6.475.7 inches 2. interval sections in different colors to indicate inf, fiel, and gas mixtures and exhaust gas contents. The carbunctor is shown in section. 17 Performance Specificat					
16 Ratioactive Material (CRP Part 02) All 3 ratiobiostope samples stored in a safe box and property labeled 3. Brand permanently marked on the item; with English User's Manual that includes operation guide (Permanent and property labeled, labels are starth-resistant) Dry Cell Holder (size D) Primetional Specifications: Used to securely mount size D dry cell in place Dry Cell, Holder (size D) Performance Specifications: Should be able to securely mount size D dry cell in place Design Specifications: 1. Single Holder for size D dry cell, snap-on type; 2. With built-in nickel plated brass plate connectors; 3. Housin, should be sturdy, thickness; 1. 98-2. mm Scate resistant when dropped from 91 cm height, mounted with dry cell; 6. Any color Dry Cell, 1.5 volts, size D Punctional Specifications: Used to provide 1.5 volts DC power source for a basic electrical circuit Design Specifications: Design Specifications: Used to simulate the operation of a 4-stroke cycle gasoline engine Performance Specifications: Should be able to simulate the operation of a 4-stroke cycle gasoline engine Performance Specifications: Used to simulate the operation of a 4-stroke cycle gasoline engine model, Sizer 13.475-14 inches x 7.875-8 inches x 6.875-7 inches 2. Matrix: cara alloy construction, mounted on stable base 3. Internal sections in different colors to indicate air, fuel, and gas mixtuker and eable using acounter. The carabuter bit shown in section: Huminiting a 3-vol lamp as spark big to shown in section: Huminiting a 3-vol lamp as s					
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1 Indecid 3. Brand permanently marked on the item; with English User's Manual that includes operation guide (Permanent and property Inbeled, Inbels are scattach-resistant) Dry Cell Holder (size D) Punctional Specifications: Used to securely mount size D dry cell in place 15 Design Specifications: Used to securely mount size D dry cell in place 16 Design Specifications: Output of the study, should be able to securely mount size D dry cell in place 18 Design Specifications: 0. Sign Holder for size D dry cell, snap-on type: 0. With built- in nickel plated brass plate connectors; 0. Holders can be interconnected in series or parallel; 0. Any color 16 Dry Cell, 1.5 wolts, Performance Specifications: Used to provide 1.5 wolts DC power source for a basic electrical circuit 16 Performance Specifications: Used to provide 1.5 wolts DC power source for a basic electrical circuit 16 Performance Specifications: Used to simulate the operation of a 4- stroke cycle gasoline engine 16 Performance Specifications: Should be able to simulate the operation of a 4-stroke cycle gasoline engine 17 Design Specifications: Design Specifications: 1. Croos section model of a 4-stroke cycle gasoline engine model, Size: 1.3.875-41 inches ar 7.875-81 inches ar 6.875-7 inches 2. Materia: cast aligo construction, mounted on shale board gas mixtures and exhaust gas contents. The carburetor is shown in acction. 17 Design Specifications: 1. Croos section model of a 4-stro					
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10 power source for a basic electrical circuit Design Specifications: 1. industry standard size D 1.5-volt dry cell Engine Model (Internal Combustion) Functional Specifications: Used to simulate the operation of a 4- stroke cycle gasoline engine Design Specifications: Performance Specifications: Should be able to simulate the operation of a 4-stroke cycle gasoline engine model, Size: 13.875-14 inches x 7.875-8 inches x 6.875-7 inches 2. Material: cast alloy construction, mounted on stable base 3. Internal sections in different colors to indicate air, fuel, and gas mixtures and exhaust gas contents. The carburetor is shown in section. 17 . The crankshaft can be rotated by hand wheel to simulate the operating cycle of 4-stroke cycle gasoline engine; with electrical contact for illuminating a 3-volt lamp as spark plug to simulate ignition 5. Base with illustration and correct part names and show the following parts correctly: crank case, crank shaft, connecting rod, cylinder block, piston, intake valve, exhaust valve, push rod, spark plug, rocker arm, exhaust manifold, crank shaft gear, cam shaft gear, cam shaft, contact point, carburetor, needle valve, float, throttle valve, intake manifold 6. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall contain the following: 1. Training Video Contents: a. Name of the equipment b. Parts of the equipment 1. Training Video Contents: a. Name of the equipment 1. Training Video Contents: a. Name of the equipment			size D	source for a basic electrical circuit	
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17 Design Specifications: Cross section model of a 4-stroke cycle gasoline engine model, Size: 13.875-14 inches x 7.875-8 inches x 6.875-7 inches Material: cast alloy construction, mounted on stable base Internal sections in different colors to indicate air, fuel, and gas mixtures and exhaust gas contents. The carburetor is shown in section. The crankshaft can be rotated by hand wheel to simulate the operating cycle of 4-stroke cycle gasoline engine; with electrical contact for illuminating a 3-volt lamp as spark plug to simulate ignition Base with illustration and correct part names and show the following parts correctly: crank case, crank shaft, connecting rod, cylinder block, piston, intake valve, exhaust valve, push rod, spark plug, rocker arm, exhaust manifold, crank shaft gear, cam shaft gear, cam					
17 Design Specifications: 1. Cross section model of a 4-stroke cycle gasoline engine model, Size: 13.875-14 inches x 7.875-8 inches x 6.875-7 inches 2. Material: cast alloy construction, mounted on stable base 3. Internal sections in different colors to indicate air, fuel, and gas mixtures and exhaust gas contents. The carburetor is shown in section. 4. The crankshaft can be rotated by hand wheel to simulate the operating cycle of 4-stroke cycle gasoline engine; with electrical contact for illuminating a 3-volt lamp as spark plug to simulate ignition 5. Base with illustration and correct part names and show the following parts correctly: crank case, crank shaft, connecting rod, cylinder block, piston, intake valve, exhaust valve, push rod, spark plug, rocker arm, exhaust manifold, crank shaft gear, cam shaft gear, cam shaft, contact point, carburetor, needle valve, float, throttle valve, intake manifold 6. Comes with a training video that shows the actual equipment submitted and approved during the sample evaluation and shall contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment					
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b. Parts of the equipment c. Instruction on how to use the equipment					
c. Instruction on how to use the equipment					

			e. Maintenance of the equipment	
			f. Troubleshooting	
			g. Storage and safekeeping (include cleaning) of the equipment	
			II. Training Video details:	
			a. Shall be in MP4 format.	
			b. Shall be saved in a USB 3.0 Flash Drive.	
			c. Shall have a High-Definition resolution of at least 1080p.	
			d. Shall have a readable subtitle (font style & size: Arial, 22	
			Bold) in English that is grammatically error-free and with	
			correct spelling and punctuation marks and in sync with a	
			voiceover/narration. There is an ON/OFF option for subtitle.	
			e. Shall comply an aspect ratio of 4:3.	
			f. Shall have a cover video pane containing the equipment name	
			and a video pane for each video content.	
			g. The video, voiceover (audio), and subtitle shall be in sync.	
			h. The training video shall cover all the above requirement	
			(video contents).	
		Flask, Florence,	Functional Specifications: Used to contain liquids with	
		glass, 500 mL	unobstructed view of liquid inside; for activity on 'how eye	
			focusses light rays to create an image in the retina'	
			Performance Specifications: Should be able to contain liquids with	
			unobstructed view of liquid inside; for activity on 'how eye	
	18		focusses light rays to create an image in the retina'	
			Design Specifications:	
			1. standard 500 mL capacity	
			2. Round bottom	
			3. NO Graduations	
-			4. Made of glass	
		Force Table	Functional Specifications: Used to demonstrate the vector nature	
			of forces	
			Performance Specifications: Should be able to demonstrate the	
			vector nature of forces	
			Design Specifications:	
			1. Table: material-cast iron, diameter: 39.5-40 cm, with stable	
			stand support, 29.5-30 cm height	
			2. With leveling screw	
			3. 360° protractor scale, 1° resolution	
			4. Can demonstrate combination of at least 3 coplanar forces in	
			equilibrium	
			5. Includes the following accessories:	
			a. 3 pieces load hangers -100 grams each	
			b. additional slotted masses to be loaded on each load hanger:	
			3 pieces-100 grams, 3 pieces- 50 grams, 3 pieces- 20 grams, 3	
			pieces- 10 grams"	
			c. 3 pieces pulley clamps with guide pulley to be clamped on	
			the Force Table	
	10		d. 1 piece center rod/ post, nickel plated metal, threaded to be	
	19		mounted on the center of the Force Table	
			e. 1 piece center/ fastening ring, 33-35 mm diameter x 1.98-2	
			mm thickness, nickel plated metal f. 4 meters string for hanging loads (crochet type), can suspend	
			500 grams load without breaking	
			6. With English User's Manual that includes Assembly and	
			Operation Guide	
			7. Comes with a training video that shows the actual equipment	
			submitted and approved during the sample evaluation and shall	
			submitted and approved during the sample evaluation and shall contain the following:	
			contain the following:	
			contain the following: I. Training Video Contents:	
			contain the following: I. Training Video Contents: a. Name of the equipment	
			contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment	
			contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment	
			contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment	
			contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment	
			contain the following: I. Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting	
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	Fuse Holder w/ Fuse	 d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle. e. Shall comply an aspect ratio of 4:3. f. Shall have a cover video pane containing the equipment name and a video pane for each video content. g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement (video contents). 	
20	Galvanometer	 Design Specifications: 1. Fuse: 0.3 amperes, maximum, slow-blow, glass-tube type, Rating should be engrave/etched on metal cap 2. Fuse detachable from holder, holder brass nickel plated, holder mounted on black plastic base w/ dimensions: 10-12 mm x 58-60 mm x 93-95 mm, thickness of base: 1.98-2 mm 3. Binding post terminals mounted on base, threaded, can accommodate 4 mm banana plug, brass material, with yellow plastic insulation 4. Connecting wires properly soldered to eyelet of binding posts 5. Each set comes with at least 50 spare fuses 6. Brand name permanently marked on item 	
	Galvanometer	 Functional Specifications: Used to measure small electrical current Performance Specifications: Should be able to measure small electrical current Design Specifications: Analog, general purpose galvanometer; -500 to +500 μA full scale/10 μA read, full scale accuracy of ± 	
21		 2.5%; 3. Dial plate dimensions: 93-95 mm width x 83-85 mm length; 4. Overall encasement dimensions: 93-95 mm width x 128-130 mm depth x 93-95 mm height encasement material: plastic, any color; 5. Binding post terminals, threaded, can accommodate 4 mm banana plug, brass material, color coded plastic insulation (black for negative or common terminal, red for positive terminal); 6. External zero-adjust calibration; 7. With English User's Manual that includes operation guide; and 8. With molded styropor as part of its packaging 9. Brand name permanently marked on item 	
	Helical Spring	Functional Specifications: Used to demonstrate transverse waves Performance Specifications: Should be able to demonstrate transverse waves Design Specifications:	
22		 Wire material: Galvanized Spring Steel Wire; Unstretched Length range: 1.6 meter to 1.9 meter; Can be stretched to 3 times its length without deformation; Coil Outside Diameter: 19 mm to 22mm; Wire Diameter: 1.2 mm to 1.4 mm; Number of turns per centimeter: 7 to 8 turns; With circular hooks (on both ends), hook diameter is 18-20 mm 	
00	Iron Core Rod, non- corrugated	Functional Specifications: Used to perform activities on electromagnet Performance Specifications: Should be able to perform activities on	
23		electromagnet Design Specifications: 1. Iron rod diameter: 10.5-12 mm, length: 98-100 mm	
24	Laser Light	Functional Specifications: Used to produce laser beam for diffraction activities	

		Performance Specifications: Should be able to produce laser beam for diffraction activities	
		Design Specifications: 1. Pen type laser, red output 2. Powered by, 1.5 volts size AA dry cells 3. With ON-OFF switch	
		 4. Body dimensions: 12-12.5 mm diameter x 135-140 mm length 5. Laser spot can be projected to a distance of at least 5 meters 6. Brand permanently marked on the item 	
25	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	
23		Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set	
	Magnet Wire	Functional Specifications: Used to perform activities on electromagnet	
26		Performance Specifications: Should be able to perform activities on electromagnet	
	M A A A	Design Specifications: 1 spool magnet wire (insulation coated) #20, 100 g. spool, brand name permanently marked on spool	
	Manometer, Open U- tube with Nakamura- type Water Pressure	Functional Specifications: Used to measure pressure difference of fluids	
	Apparatus	Performance Specifications: Should be able to measure pressure difference of fluids	
		Design Specifications: 1. Open U-tube glass manometer tube with a 49.8-50 cm arm with funnel top on one arm and a 2.2-2.5 cm rifted tip on another arm for easy connection with silicone-rubber tubing, 4-6 mm outer diameter	
27		2. A millimeter scale is fitted between the arms of the tube 3. U-tube is mounted on a wooden board, fixed on a wooden stand for vertical U-tube is mounted on a wooden board, fixed on a wooden stand for vertical mounting	
		4. Includes SIMPLE WATER PRESSURE APPARATUS (Nakamura type) -its body can be made to rotate around a rigid tube. The rigid tube is L-bent to be inserted into the pressure apparatus, so that the pressure apparatus can be rotated -with 10 pcs spare	
		diaphragms per set 5. Includes 99.5-100 cm silicone-rubber tubing for interconnecting U-Tube manometer and the simple water pressure	
	Miniature Light Bulb	apparatus Functional Specifications: Used to demonstrate the conversion of electrical energy to light	
		Performance Specifications: Should be able to demonstrate the conversion of electrical energy to light	
28		 Design Specifications: 1. Miniature, incandescent, screw type base 2. Bulb rating: 2.2 V to 2.5 V, 0.3 A, handling current; engraved on base of bulb 3. Operational Specs: a) should fit with bulb socket in bulb holder assembly b) should light with one fresh dry cell connected (1.5 volts) 	
	Miniature Light Bulb Holder	Functional Specifications: Used to securely mount light bulb in place	
29		Performance Specifications: Should be able to securely mount light bulb in place	
43		 Design Specifications: 1. Socket to match the miniature incandescent light bulb, socket in plastic housing; 2. Socket housing is mounted on black, plastic base: Base dimensions : 10-12 mm x 58-60 mm x 93-95 mm, Material thickness: 1.98-2 mm 	

		3. Binding post terminals, threaded, can accommodate 4 mm banana plug, brass material, with yellow plastic insulation;	
	Mirror Set, acrylic	 4. Connecting wires properly soldered to eyelet of binding posts. Functional Specifications: Used to demonstrate the formation of image by reflection of light 	
		Performance Specifications: Should be able to demonstrate the formation of image by reflection of light	
30		Design Specifications: 1. Set of 3 spherical mirrors, acrylic, secured in compartmentalized storage box with the following types and diameters: a) 1-plane mirror, 48 to 52 mm diameter b) 1-concave mirror, 48 to 52 mm diameter c) 1-convex mirror, 48 to 52 mm diameter 2. All mirrors free from sharp edges;	
	Motor-Generator Model Experiment Set	 3. Should be clear and no sign of cloudiness Functional Specifications: Used to demonstrate the conversion of electrical energy to mechanical energy when set to motor function and vice versa when set to generator function 	
		Performance Specifications: Should be able to demonstrate the conversion of electrical energy to mechanical energy when set to motor function and vice versa when set to generator function	
31		Design Specifications: 1. DC motor mode, runs on 6 volts -12 volts DC 2. Can function as generator when the armature is rotated; AC-DC generator output is determined by commutator configuration; 3. Selectable split-ring and slip-ring commutator that enables AC- DC output w/o changing the direction of rotation of the rotor; 4. Binding posts, for external connections, labeled with "motor input: 6 V-12 VDC" and "generator output"	
		 5. Rotor is free to rotate unimpeded inside the stator without any parts of the rotor and stator in contact 6. Stator is activated by a permanent magnet. Stator assembly should have one color except blue and red; Example all yellow, all white or all black stator assembly. 7. Includes spare: 4 pcs belt, 1 set magnet; 8. Armature diameter: 66-68 mm, Armature shaft diameter: Ø 7.5-8 mm, w/ rigid mounting; 9. Drive pulley, plastic, diameter: 166-168 mm, driven pulley diameter: 24-26 mm, steel nickel plated; 	
	Multimeter, digital	 10. Base wooden board dimensions: 195-200 mm x 295-300 mm x 18-20 mm Functional Specifications: Used to provide digital readouts of measurements of AC/DC currents and voltages, 	
		resistance, capacitance, frequency Performance Specifications: Should be able to provide digital readouts of measurements of AC/DC currents and voltages, resistance, capacitance, frequency	
32		Design Specifications: Measurement Coverage, or smaller values in lower range and larger values in upper range: 1. DC Voltage: 60mV, 6V, 60V, 600V, 1000V ±0.7%+2. 2. AC Voltage: 600mV, 6V, 60V, 600V, 750V ±0.8%+3. 3. DC Current: 600µA, 6000µA, 60mA, 600mA ±1.2%+3 / 6A, 10A ±2.0%+10.	
		 4. AC Current: 600μA, 6000μA, 60mA, 600mA ±1.5%+3 / 6A, 10A ±3.0%+10. 5. Resistance: 600Ω, 6kΩ, 60kΩ, 600kΩ, 6MΩ, 60MΩ ±1.2%+5. 6. Capacitance: 10nF, 100nF, 1000nF, 10μF, 100μF, 1000μF, 10mF, 100mF±3.0%+3. 7. Frequency: 10Hz, 100Hz, 1000Hz, 10kHz, 100kHz, 1000kHz, 10MHz ±1.0%+5. 	
		 8. Duty Cycle :0.1%-99.99% ±3.0%+2. 9. Temperature: -20~1000 Centigrade degree / -4~1832 F 10. Display: 6000 counts 11. Auto range 12. USB Interface function. The measured data stored in the instrument can be uploaded to computer for display, record and analysis 	

		13. Comes with: 1*Pair Test Leads, 1*English Operating Manual. 1*Temperature Probe, 1*USB Data Cable	
	Optical Bench Set	14. Brand permanently marked on the item Functional Specifications: Used for mounting lenses, mirrors, screen, light source and other optics components	
		Performance Specifications: Should be able to mount lenses, mirrors, screen, light source and other optics components in place	
		Design Specifications: 1. This Complete Set includes: a) 1-meterstick, with centimeter and millimeter graduations b) 1-lens support for the 50 mm diameter lenses and 50 mm diameter mirrors; should be stable when mounted on meterstick, smooth sliding	
33		 c) 1-lens support for 75 mm lens, should be stable when mounted on meterstick, smooth sliding d) 1- screen support, should be stable when mounted on meterstick, smooth sliding e) 5-white board screens: 9.5-10 cm x 11.5-12 cm each f) 2-metal supports for meter stick, should be stable, meterstick should not tip off 1-candle holder, should be stable when mounted on meterstick, smooth sliding 	
		 g) 1-paraffin candle 2. Stand supports for meter stick, holders for lenses, mirrors, screens, and candle should be placed inside one compartmentalized casing; 3. With English User's Manual that includes operation guide. 	
	Pair of Bar Magnets	 4. Brand permanently marked on packaging box Functional Specifications: Used to demonstrate that some things can make objects move and describe forces exerted by magnets 	
		Performance Specifications: Should be able to demonstrate that some things can make objects move and describe forces exerted by magnets	
34		 Design Specifications: Pair of Bar Magnets: 1. Dimensions of each: 148-150 mm x 10-12 mm x 7-8 mm 2. Magnet strength: can suspend loads at least 2 times its weight when suspended end-to-end at north-south pole of the magnet, 3. Color Code: north pole of the magnet should be colored red and the south pole colored blue 	
	Prism Set	Functional Specifications: Used to demonstrate characteristics of refraction of light	
		Performance Specifications: Should be able to demonstrate characteristics of refraction of light	
		Design Specifications: 1. Set is composed of: a) 1-Rectangular block, solid acrylic, clear on one side and frosted on other side with the following dimensions: length = 68-70 mm width = 48-50 mm	
35		 thickness = 18-20 mm b) 1-Right angle prism, solid acrylic, clear on one side and frosted on other side with the following dimensions: thickness: 8-10 mm , base = 38-40 mm height = 63-65 mm c) 1-Semi-circular block, solid acrylic, clear on one side and frosted on other side with the following dimensions: diameter=98-100 mm, thickness 8-10 mm 	
		 Secured in reusable plastic storage casing; Brand name permanently marked on the reusable storage casing. 	
	Resistance Board	Functional Specifications: Used to investigate factors affecting resistance of a conductor	
36		Performance Specifications: Should be able to investigate factors affecting resistance of a conductor	

			,	
	Ring and Ball Apparatus	 Board: dimensions-height: 28 mm-30 mm, width: 118 mm-120 mm length: 645 mm-650 mm, material plastic, channel type, thickness of material: 2.9 mm-3.2 mm free of warpage and other imperfection like flushes etc. Board is mounted with the following wires: a) 2 - Nichrome wires of 2 different diameters: 0.23-0.25 mm & 0.48-0.5 mm; length: 598-600 mm b) 1 - Stainless steel wire diameter: 0.48-0.5 mm, length: 598-600 mm c) 1 - Copper wire diameter: 0.48-0.5 mm, length: 598-600 mm Board should be marked by decimeter graduations that only span along entire wires' length All wires should be rigidly fastened to stainless steel terminal posts Functional Specifications: Used to demonstrate thermal expansion (and contraction) of a metal 		
37		 Design Specifications: 1. The ring and ball set demonstrates thermal expansion. 2. Comprising of a captive brass ball secured to a mounted brass ring by a chain. 3. Diameter of Ball: 24.99-25.01mm, smooth surface 4. Inside Diameter of Ring: 25.03-25.05 mm, smooth surface 5. Outside Diameter of Ring: of 36-38 mm 6. Thickness of Ring: 4-6 mm 7. Diameter of Brass Stem: 4-5mm 8. Handle of brass ring made of wood. 9. Chain is made of stainless steel with a 3-turn stainless wire ring to keep the ball in the chain during heating. 		
	Ripple Tank Set	Functional Specifications: Used to demonstrate properties of transverse waves Performance Specifications: Should be able demonstrate		
38		 properties of transverse waves Design Specifications: Tank: 54.5-55 cm x 54.5-55 cm , with foam beaches perimeter to damp reflections, with 4 detachable legs with leveling screws, height of legs: 54.5-50 cm, Class bottom: 39.5-40 cm x 39.5-40 cm Should include the following accessories: a) 1-rippler bar with electronic frequency controller (digital) b) 1-hand rippler bar c) 2-spherical dippers, removable d) 4-parafin blocks e) 1-glass plate, 21.5-22 cm x 29.5-30 cm f) 1-parabolic reflector 1-plastic viewing screen, white, 61.5-62 cm x 61.5-62 cm Light Source: a) LED light source 12 volts, 5 watts b) with electronic controlled strobe to synchronize with frequency controller c) detachable and adjustable mounting unto the tank d) black shielded with ventilation With Frequency display unit that includes Assembly and Operation Guide Training Video Contents: a. Name of the equipment b. Parts of the equipment c. Instruction on how to use the equipment d. Sample Experiment/Activity using the equipment e. Maintenance of the equipment f. Troubleshooting g. Storage and safekeeping (include cleaning) of the equipment 		

			-	
	Slinky Coil, metal	 a. Shall be in MP4 format. b. Shall be saved in a USB 3.0 Flash Drive. c. Shall have a High-Definition resolution of at least 1080p. d. Shall have a readable subtitle (font style & size: Arial, 22 Bold) in English that is grammatically error-free and with correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle. e. Shall comply an aspect ratio of 4:3. f. Shall have a cover video pane containing the equipment name and a video pane for each video content. g. The video, voiceover (audio), and subtitle shall be in sync. h. The training video shall cover all the above requirement (video contents). 		
39		Performance Specifications: Should be able to demonstrate longitudinal waves Design Specifications: 1. 2.875-3 inches diameter x 3.875-4 inches long 2. zinc or nickel plated		
40	Sound Resonance Set: Loud Speaker	 Functional Specifications: Used to provide continuous sound tone of certain frequency Performance Specifications: Should be able to provide continuous sound tone of certain frequency Design Specifications: For connection to the sound signal generator, 1.875-2 inches cone diameter I watt, all frequency, 4 Ohms to 8 Ohms impedance No enclosure, mounted on an open board with stand to match height of resonance tube Height of loudspeaker with stand: center of loudspeaker 50-52 mm height from table surface to match with height of resonance tube (please see resonance tube specifications) Binding post terminal connectors conveniently located, should not block opening of resonance tube during activity, color coded encapsulation red for positive, black for negative 		
41	Sound Resonance Set: Resonance Tube	 Functional Specifications: Used to vary the length of air column to produce resonance of sound coming out from the loudspeaker Performance Specifications: Should be able to vary the length of air column to produce resonance of sound coming out from the loudspeaker Design Specifications: 1. With plastic stopper fixed on one end of inner tube "2. Outer tube: OD: 61-63 mm diameter, 1025-1030 mm long: with detachable rubber plug on free end for safe transport of inner-outer tube assembly 3. Inner tube: OD: 48-50 mm, 1095-1100 mm long, With permanent graduation with mm scale at 1 mm division to indicate length of air column as the inner tube is pushed or pulled along the outer tube; print should resist rubbing, no sign of fade after 100 slides; inner tube with good quality air sealing material (felt cloth) 4. With rigid and stable stand to make effective height of outer tube align with loudspeaker cone (please see loudspeaker specifications) 5. Height including stand: center of outer tube elevated by 50-52 mm from the surface) 6. With English User's Manual that includes Operation Guide 		
42	Sound Resonance Set: Tone Generator	Functional Specifications: Used to control the frequency, loudness and quality of electrical signal fed to the loudspeaker to produce sound tone Performance Specifications: Should be able to control the frequency, loudness and quality of electrical signal fed to the loudspeaker to produce sound tone Design Specifications: 1. Should be able to generate 20 Hz-20 kHz frequency sine waves; with digital display readout of frequency setting		

-				1	
			2. Frequency setting on unit should match to measured sound		
			output coming out from connected loudspeaker within 3%.		
			Example if the sound generator is set to produce sound of 256 Hz		
			the measured sound frequency coming out from loudspeaker		
			should be in the range 248-264 Hz.		
			3. Should be able to produce pure tones free from unwanted		
			signals (smooth sine waves without harmonics)		
			4. Maximum sound output from connected loudspeaker: 55 dB to		
			65 dB at 1kHz measured at 8-12 cm distance between		
			loudspeaker and sound measuring instrument 5. With terminals for external connection to loudspeaker and to		
			oscilloscope		
			6. Power supply: 4.5 volts -12 volts DC internal by way of dry cells		
			or external by way of appropriate adapter		
			7. With English User's Manual that includes Operation Guide		
			8. Comes with a training video that shows the actual equipment		
			submitted and approved during the sample evaluation and shall		
			contain the following:		
			I. Training Video Contents:		
			a. Name of the equipment		
			b. Parts of the equipment		
			c. Instruction on how to use the equipment		
			d. Sample Experiment/Activity using the equipment		
			e. Maintenance of the equipment		
			f. Troubleshooting		
			g. Storage and safekeeping (include cleaning) of the equipment		
			II. Training Video details:		
			a. Shall be in MP4 format.		
			b. Shall be saved in a USB 3.0 Flash Drive.		
			c. Shall have a High-Definition resolution of at least 1080p.		
			d. Shall have a readable subtitle (font style & size: Arial, 22		
			Bold) in English that is grammatically error-free and with		
			correct spelling and punctuation marks and in sync with a voiceover/narration. There is an ON/OFF option for subtitle.		
			e. Shall comply an aspect ratio of 4:3.		
			f. Shall have a cover video pane containing the equipment name		
			and a video pane for each video content.		
			g. The video, voiceover (audio), and subtitle shall be in sync.		
			h. The training video shall cover all the above requirement		
			(video contents).		
		Strobe Light	Functional Specifications: Used to provide flashes of light so that		
		0	fast rotating objects appear to freeze		
			Performance Specifications: Should be able to provide flashes of		
			light so that fast rotating objects appear to freeze		
	43		Design Specifications:		
	10		1. Light source: white LED		
			2. Variable frequency range: 2.5 Hz-250 Hz, variable		
			3. Power source: Rechargeable alkaline/li-ion/li-po batteries with		
			corresponding charger (both included in package) AND/OR unit		
			operates directly from DC adapter, DC adapter should be included 4. With English User's Manual that includes operation guide		
		Switch, Knife type,	Functional Specifications: Used to open and close an electrical		
		Single Pole Single	circuit		
		Throw			
			Performance Specifications: Should be able to open and close an		
			electrical circuit		
			Design Specifications:		
			1. Single pole Single Throw Knife type switch Knife dimensions:		
			0.7- 0.8 mm x 7-8 mm x 53-55 mm, nickel plated brass Plastic		
	44		handle dimensions: 8-9 mm x 8-9 mm x 20-23 mm		
1			2. Contact plates for knife dimensions: 7-8 mm x 18-20 mm,		
			nickel plated brass, thickness of material 0.48-0.5 mm		
			3. Knife switch-contact plates assembly mounted on black plastic		
			base: 10-12 mm x 58-60 mm x 93-95 mm, thickness of base: 1.8-		
			2 mm 4 Dinding post terminals, threaded, can accommodate standard 4		
1			4. Binding post terminals, threaded, can accommodate standard 4 mm banana plug, brass material, with yellow plastic		
1				1	
			encapsulation 5. Internal connectors properly soldered to eyelet of binding posts;		

		6. Switch fixations should survive 100 continuous on-off operation	
		cycles, without signs of wear and tear	
	Ticker Timer Set	Functional Specifications: Used to measure and record short time intervals by marking "ticks" on paper tape	
		Performance Specifications: Should be able to measure and record short time intervals by marking "ticks" on paper tape	
45		short time intervals by marking ticks on paper tape	
		Design Specifications:	
		1. Operates on 6 to 12V a.c. power supply. Has a plastic base and	
		screw type binding posts; 2. Supplied with: a) 38-40 mm diameter carbon paper disc, 100	
		pcs; b) 13-15 mm wide ticker tape, 3 rolls; c) C-clamp	
	Toy Car, non-friction, non-battery	Functional Specifications: Used to demonstrate that some things like people can make objects move	
	non-battery	like people call make objects move	
		Performance Specifications: Should be able to demonstrate that	
		some things like people can make objects move	
46		Design Specifications:	
		1. Dimensions: 49.5-50 cm x 29.5-30 cm x 24.5-25 cm (L x W x H)	
		2. Material: plastic, any color or color combination 3. 4-wheels free to turn	
		4. not driven by any power source or winding mechanism except	
		by pushing or pulling by people	
	Tuning Fork Set	Functional Specifications: Used to produce sound tones of fixed frequencies that correspond to the frequencies of the first octave	
		in the diatonic scale	
		Performance Specifications: Should be able to produce sound	
		tones of fixed frequencies that correspond to the frequencies of the	
		first octave in the diatonic scale	
		Design Specifications:	
47		1. 8-piece tuning forks with standard Scale Letter and	
47		Frequencies: C=256 Hz, D=288 Hz, E=320 Hz, F=341 Hz, G=384	
		Hz, A=426 Hz, B=480 Hz, C=512 Hz 2. Aluminum alloy, non-magnetic, handle: 4-4.5 cm length	
		3. Frequency and scale letter stamped on each fork	
		4. With rubber mallet	
		5. Measured sound output frequency should be within 1% of frequency rating stamped on each tuning fork	
		6. Should be able to produce pure tones free from unwanted	
		signals (smooth sine waves without harmonics)	
	Vacuum Tube and	7. Brand permanently marked on the storage box Functional Specifications: Used to demonstrate the effect of air	
	Manual Vacuum	resistance on the motion of freely falling objects	
	Pump	Performance Specifications: Should be able to demonstrate the	
		effect of air resistance on the motion of freely falling objects	
		Design Specifications	
		Design Specifications: A. Vacuum tube:	
		1. 905-910 mm long x 53-55 mm diameter, transparent acrylic	
		2. With stopcock mounted in a rubber stopper on one end, and	
48		solid rubber stopper on the other end 3. Supplied with 12-13 inches long vinyl tubing for connection to	
		vacuum pump	
		4. Includes metal disc and a feather as specimens	
		B. Vacuum pump: 1. Hand operated	
		2. With pressure gauge	
		3. Pump is sealed, self-lubricating, with removable cap, and elastic	
		valve 4. Fixed on outer port to provide quick vacuum release	
		5. Nozzle fits standard 1/4-inch diameter tubing	
		6. Brand permanently marked on the item	

STATEMENT OF COMPLIANCE

I hereby commit to provide the above specified requirements in compliance with the Technical Specifications for the Project: Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023.

Name and Signature of Bidder's Authorized Representative

Section VIII. Technical Drawings

See Annex "I" for the Technical Drawings

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

(a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) **in accordance with Section 8.5.2 of the IRR**;

Technical Documents

- (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; **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
- Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission <u>or</u> Original copy of Notarized Bid Securing Declaration; <u>and</u>
- (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (f) Original duly signed Omnibus Sworn Statement (OSS) <u>and</u> 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

 (c) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) <u>or</u> A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

(d) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence <u>or</u> 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

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

See **Annex "J"** for the Price Schedule Form.

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

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

LIST OF ALL ONGOING GOVERNMENT & PRIVATE CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

•

Business Name

Business Address :

Name of Contract/	Owner's Name a. Address b. Telephone Nos.	Nature of Work	Bidder's Rol	e	Date Awarded		o of olishment	Value of
Project Cost				%	a. DateStartedb. Date ofCompletion	Planned	Actual	Outstanding Works / Undelivered Portion
<u>Government</u>								
<u>Private</u>								

Note: (In case of no ongoing contract, the bidder shall submit this duly signed form and indicate "No ongoing contracts" or "None" or "Not Applicable (N/A)" under the Column for Name of Contract (first column from left)

Submitted by: ______ Printed Name and Signature of Authorized Representative Designation:

Date: _____

STATEMENT IDENTIFYING THE SINGLE LARGEST COMPLETED CONTRACT

Business Name **Business** Address a. Date Awarded Bidder's Role b. Contract Effectivity a. Amount at Award a. Owner's Name b. Amount at c. Date Completed Nature of b. Address Name of Contract Work Completion d. Contract c. Telephone Nos. % Description c. Duration Performance certified by End User Government Private

Note: The bidder shall be able to support this statement with:

Duly signed Contracts/Purchase Orders (POs)/ Agreements/Memoranda of Agreement (MOA)/Notices of Award (NOA)/Job Orders or Notices to Proceed (NTP) with the corresponding

Certificates of Completion of Delivery (CCDs)/ Certificates of Final Acceptance (CFAs)/duly signed Delivery Receipts (DRs), or duly accomplished Inspection and Acceptance Reports (IARs)

Submitted by

(Printed Name and Signature)

Designation

Date

Joint Venture Agreement Form

KNOW ALL MEN BY THESE PRESENTS:

_____, of legal age, <u>(civil status)</u>, owner/proprietor of _______, and a resident of ______.

THAT both parties agree to join together their manpower, equipment, and what is needed to facilitate the Joint Venture to participate in the Eligibility, Bidding and Undertaking of the hereunder stated project to be conducted by the <u>(Name of the Procuring Entity)</u>.

NAME OF PROJECT	CONTRACT AMOUNT

That both parties agree to be jointly and severally liable for the entire assignment.

 That both parties agree that
 and

 ______own the share and interest of
 and

 ______[indicate percentage of shares) respectively

That both parties agree that ______and/or ______shall be the Official Representative of the Joint Venture, and is granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Joint Venture in the bidding as fully and effectively and the Joint Venture may do and if personally present with full power of substitution and revocation.

THAT this Joint Venture Agreement shall remain in effect only for the above stated Projects until terminated by both parties.

Done this _____ day of _____, in the year of our Lord _____.

SIGNED IN THE PRESENCE OF:

Witness

Witness

REPUBLIC OF THE PHILIPPINES) S.S. PASIG CITY, METRO MANILA)

ACKNOWLEDGMENT

BEFORE ME, a Notary Public in and for Pasig City, Metro Manila, Philippines, this _____ day of _____, 201_ personally appeared:

	GOVERNM IDENTIFIC		
NAME	<u>Number</u>	Issued on	<u>Issued at</u>

Known to me and to me known to be the same persons who executed the foregoing instrument and acknowledged to me that same is the free and voluntary act and deed of the entities which they respectively represent.

The foregoing instrument is a JOINT VENTURE AGREEMENT consisting of pages (exclusive of attachments), including this page on which this acknowledgment is written and signed by the parties hereto and their instrument witnesses on the left hand margin of each and every page hereof.

WITNESS MY HAND AND SEAL on the date and place first above written. NOTARY PUBLIC Until December 31, 20__

Doc. No.	
Page No.	
Book No.	
Series of	20

NET FINANCIAL CONTRACTING CAPACITY (NFCC) FORM

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or its duly accredited and authorized institutions, for the preceding calendar/tax year which should not be earlier than two (2) years from date of bid submission.

		Year 20
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = K (current asset – current liabilities) minus value of all outstanding works under ongoing contracts including awarded contracts yet to be started

NFCC = P _____

K = 15 regardless of contract duration

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped "RECEIVED" by the BIR or its duly accredited or authorized institution for the preceding year which should not be earlier than two (2) years from date of bid submission.

Submitted by:

Name of Supplier / Distributor / Manufacturer

Signature of Authorized Representative Date : _____

NOTE: If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

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]



PROJECT:

Republic of Philippines **DEPARTMENT OF EDUCATION** DepEd Complex, Meralco Avenue, Pasig City Trunk Line (08) 632-13-61, Website http://www.deped.gov.ph



Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023

CONTRACT NO.:

CONTRACT

 THIS CONTRACT made and entered into this _____ day of ______ 2023 by

 and between DEPARTMENT OF EDUCATION, located at DepEd Complex, Meralco

 Avenue, Pasig City, Philippines, represented herein by its ______,

 _______, as per Department Order No. _____, s. _____ (hereinafter referred

 to as "DEPED"); and _______, with office address at

 _______, Philippines (hereinafter referred to as "______"), as

 per Secretary's Certificate dated ______ (hereto attached as Annex "A").

DEPED and ______ are collectively called "**PARTIES**."

WHEREAS, DEPED invited bids for the Mass Production, Supply, and Delivery of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 and Grades 4 to 6, Public Junior High Schools for Grades 7 to 10, and Public Senior High Schools for Grades 11 to 12 (Core & STEM) 2022 Rebid and 2023 consisting of nineteen (19) lots, and received bids from _____ (__) bidders for Lot No. __; DEPED opened, read, and evaluated the bids of the _____ (__) bidders and declared ______ as having the lowest calculated bid for Lot No. __; after evaluation, DEPED post-qualified and declared the bid of ______ as the lowest calculated responsive bid for Lot No. ____ in the sum of PHILIPPINE PESOS MILLION, ______ THOUSAND,

and 00/100 (PhP _____) ONLY, (hereinafter called the "Contract Price") detailed as follows:

Lot No.	Description	Quantity	Amount (in Php)

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

- 1. In this Contract, 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 part of this Agreement, viz:
 - a. Philippine Bidding Documents (PBD);
 - i. Technical Specifications;
 - ii. General and Special Conditions of the Contract;
 - iii. Schedule of Requirements; and
 - iv. Bid Bulletin No. 1 dated _____.
 - b. _____'s bid, including the eligibility requirements, technical and financial proposals, and all other documents or statements submitted;
 - c. Performance Security;
 - d. Notice of Award of Contract and _____'s conforme thereto; and
 - e. Other contract documents required by existing laws and/or **DEPED** in the PBD. ______ agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Order, and Warranty Security, shall form part of the Contract.
- 3. _______ shall post a Performance Security within ten (10) calendar days from receipt of the Notice of Award in the form and amount prescribed therein. The performance security shall be posted in favor of **DEPED**, and shall be forfeited in the event it is established that _______ is in default of any of its obligation under this contract. _______ shall be responsible for the extension of its performance security and/or undertake to renew its performance security whenever necessary, and without need of prior notice or instruction from the **DEPED**, to ensure that it is in force and effect for the whole duration of the contract and until a Certificate of Final Acceptance is duly issued.
- 4. The goods referred to in this Contract shall be delivered by ______ at _____ within ______ calendar days from the receipt of the Notice to Proceed (NTP). _______ shall ensure that the goods will be delivered in accordance with the Schedule of Requirements, which is hereto attached as Annex "B" and made an integral part hereof.

Goods delivered to sites other than the designated delivery site without **DEPED**'s written authorization and/or approval may be rejected by the latter. Violation of this provision, based on documents and reports submitted and validated by the authorized receiving personnel may be cause for the termination of the Contract

- 5. **DEPED** shall have the right to inspect and test or cause the testing of the goods covered by the Contract, at any time or stage of contract implementation. Pre-delivery and Pre-implementation Conference shall be conducted prior to the inspection of goods by the designated DepEd Inspectorate Team, as may be necessary or applicable.
- 6. **DEPED** shall have the right to visit and inspect ______'s premises covered by the Contract at any time or stage of the contract implementation to monitor and assess ______'s capacity to discharge its contractual obligations.

- 7. Prior to and for purposes of inspection, ______ shall ensure convenient access to the goods for inspection. ______ shall assign personnel to undertake the handling, unpacking, assembly, commissioning, disassembly, repacking, resealing, and sorting of the goods prior to, during, and after inspection.
- 9. The goods must conform to and comply with the standards mentioned in Section VI. Schedule of Requirements of the Bidding Documents, and must be in accordance with the final technical specifications as approved by the Bids and Awards Committee, or as amended by subsequently issued Bid Bulletin, if any, based on the samples submitted by ______, and reflected in the post-qualification report, which is hereto attached as Annex "C" and made an integral part hereof.

Any proposal by _______ to deliver goods of different technical specifications, in lieu of those of the approved bids or samples, shall not be allowed. However, under justifiable circumstances, delivery of goods of equivalent, higher or superior technical specifications may be permitted, subject to the evaluation and favorable recommendation of the **DEPED's** end-user or implementing unit, and the approval of the herein authorized signatory. In any such case, the proposal by ______ for substitution shall be in writing and shall not result in any additional cost or undue burden to **DEPED**.

- 10. Goods with defects or non-compliant with the required technical specifications upon delivery shall be rejected orally or in writing by **DEPED** and replaced by __________ in accordance with the warranty provisions in the bidding documents. The replacement goods for this reason shall be subject to re-inspection.
- 11. In case ______ encounters condition(s) impeding timely delivery of the goods, ______ shall promptly notify **DEPED** in writing within five (5) calendar days from notice of such condition(s). Any request for work suspension and/or contract period extension shall be promptly done in writing as soon as circumtances for such request have become apparent. _____ must provide sufficient proof to support any request for work suspension and/or contract period extension.
- 12. The Contract Price shall be paid to ______ in accordance with the following disbursement procedures:
 - Upon submission of an irrevocable letter of credit or Bank Guarantee issued by a Universal or Commercial Bank, an advance payment not to exceed fifteen percent (15%) of the contract amount shall be allowed and paid within sixty (60) calendar days from signing of the Contract.
 - b. _____ may submit a request for payment based on the following:
 - (i) cumulative quantities of goods delivered based on the schedule of deliveries and other relevant terms and conditions of the Contract;
 - (ii) duly signed Delivery Receipts; and

(iii) duly signed Inspection and Acceptance Reports (IARs), including certification by ______, duly signed and dated by the authorized representative of the **DEPED** indicating that the goods have been delivered in accordance with the Contract.

Other documents in support of a request for payment may be prescribed by **DEPED** pursuant to existing disbursement, accounting and auditing rules and procedures.

- c. Subject to the recoupment of the advance payment contemplated in Clause 12(a) above and retention contemplated in the immediately succeeding clause, payment shall be made to ______ within sixty (60) days from submission of the documents specified in SCC Clause 2.2 and other documents as may be prescribed by **DEPED**, in the following manner:
 - i. For the initial progress payment, a minimum of 25% of the Contract Price shall be paid to the Supplier upon delivery of at least 25% of the goods and acceptance of the same by an authorized representative of DepEd;
 - ii. Final payment shall consist of the full and final payment of the unpaid inspected and accepted goods, subject to the submission of the required documents under the Bidding Documents.
- 13. Payments shall be subject to the "Warranty" provision in the form of either retention money in an amount equivalent to ______ the payment, or a special bank guarantee in the amount equal to ______ of the Contract Price as provided under Section 62.1 of R.A. 9184 and its Revised IRR.
 - **a.** The warranty period of ______ shall reckon from the date of issuance of Certificate of Final Acceptance by **DEPED.**
 - **b.** In case ______ opts for retention money, the amount shall be released at the expiration of the warranty period or the remaining amount in case it has been utilized pursuant to the warranty provision unless, during the remainder of the warranty period, the retention money is substituted with a special bank guarantee.
- 14. Ownership, title, rights, and interest with respect to the contents of the ______, including all resources, records, or materials used or obtained in the course of this Agreement shall vest exclusively with **DEPED**. ______ hereby irrevocably waives any claim thereto. _______ shall not, in any manner or for any purpose, use the contents of the ______ beyond what is expressly allowed for the purpose of accomplishing the terms under this Contract, unless express permission of **DEPED** in writing is obtained.
- 15. Each party in the performance of their respective duties and responsibilities under this Contract and in the implementation thereof shall adhere to Republic Act No. 10173, otherwise known as the "Data Privacy Act of 2012." Any gathered data and information should be protected and respected during the term and even after the termination of this Contract. The processing of any gathered data and information should be in compliance with the confidentiality and privacy requirements under the said law and applicable regulations.

- 16. ______ shall be liable for liquidated damages for the delay in delivery of goods in an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery, for every day of delay until such goods are finally delivered to and accepted by **DEPED**. **DEPED** shall deduct the liquidated damages from any money due or which may become due to ______, or collect from any of the securities or warranties posted by ______, whichever is convenient to **DEPED**. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the Contract Price, **DEPED** may rescind or terminate the Contract, without prejudice to other courses of action and remedies available under the circumstances.
- 17. The **PARTIES** shall make every effort to resolve amicably and by mutual consultation any and all disputes or differences arising between the **PARTIES** in connection with the implementation of the Contract. Should such dispute not be resolved amicably, it shall be submitted to Early Neutral Evaluation pursuant to R.A. No. 9285, or the "Alternative Dispute Resolution Act of 2004," and its Implementing Rules and Regulations.

IN WITNESS WHEREOF, the **PARTIES** hereto have caused this Contract to be executed in accordance with governing laws on the day and year first above written.

SIGNED, SEALED AND DELIVERED BY:

Department of Education

SIGNED IN THE PRESENCE OF:

DEPED's Witness

_____'s Witness

CERTIFIED FUNDS AVAILABLE:

Chief Accountant

REPUBLIC OF THE PHILIPPINES)
_____, METRO MANILA) S.S

ACKNOWLEDGMENT

BEFORE ME, a Notary Public in and for ______, Philippines, this _____ day of ______ 2023 personally appeared:

NAME

GOVERNMENT ISSUED ID

(Number, Issued On, Issued By)

Department of Education

Known to me and to me known to be the same persons who executed the foregoing instrument and acknowledge to me that the same is the free and voluntary act and deed of the entities which they respectively represent.

The foregoing instrument is a CONTRACT consisting of six (6) pages (exclusive of attachments), including this page on which this acknowledgment is written and signed by the parties hereto and their instrument witness on the left-hand margin of each and every page hereof.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. ____; Page No. ____; Book No. ___; Series of 2023.

NOTARY PUBLIC

WHEREAS, *[insert name of Bidder]* (hereinafter called the "Bidder") has submitted its bid dated *[insert date]* for the *[insert name of contract]* (hereinafter called the "Bid").

KNOW ALL MEN by these presents that We *[insert name of Bank]* of *[insert* name of Country/ having our registered office at *[insert address]* (hereinafter called the "Bank" are bound unto the DEPARTMENT OF EDUCATION Central Office. (hereinafter called the "Entity"), in the sum of *[insert amount]* for which payment well and truly to be made to the said Entity the Bank binds itself, its successors and assigns by these presents.

SEALED with the Common Seal of said Bank this day of 201 .

THE CONDITIONS of this obligation are:

- 1. If the Bidder:
 - (a) withdraws its Bid during the period of bid validity specified in the Form of Bid; or
 - (b) does not accept the correction of arithmetical errors of its bid price in accordance with the Instructions to Bidder; or
- 2. If the Bidder having been notified of the acceptance of its bid by the Procuring Entity during the period of bid validity:
 - fails or refuses to execute the Contract Form in accordance (a) with the Instructions to Bidders, if required; or
 - fails or refuses to furnish the Performance Security in (b) accordance with the Instructions to Bidders.

We undertake to pay to the Entity up to the above amount upon receipt of its first written demand, without the Entity having to substantiate its demand, provided that in its demand the Entity will note that the amount claimed by the Entity is due to the Entity owing to the occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date *[insert* days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE	SIGNATURE OF THE BANK
WITNESS	SEAL
(Signature Name and Address)	

(Signature, Name and Address)

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 toyour 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 AUTHORIZEDREPRESENTATIVE] [Insert signatory's legal capacity] Affiant

<u>[Jurat]</u>

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

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 the law, do hereby depose and state that:

1. [Select one, delete the other:]

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

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

2. [Select one, delete the other:]

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

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

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

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

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

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

Affiant

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

Performance Security (Bank Guarantee) Form

- To : The Secretary Department of Education DepEd Complex, Meralco Avenue Pasig City
- Attention: The Chairperson Bids and Awards Committee

WHEREAS, *[insert name and address of Supplier]* (hereinafter called the "Supplier") has undertaken, in pursuance of Contract No. *[insert number]* dated *[insert date]* to execute *[insert name of contract and brief description]* (hereinafter called the "Contract");

AND WHEREAS, it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS, we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE, we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of *[insert amount of guarantee]* proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[insert amount of guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to be performed there under or of any of the Contract documents which may be made between you 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 be valid until the date of your issuance of the Notice of Final Acceptance.

SIGNATURE AND SEAL OF THE GUARANTOR NAME OF BANK ADDRESS DATE

FINANCIAL BID FORM

Date:	
Project No:	

The Secretary Department of Education DepEd Complex, Central Office Meralco Avenue, Pasig City

Attention: The Chairperson Bids and Awards Committee

Gentlemen and/or Ladies:

Having examined the Bidding Documents including 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 Bidding Documents for the sum of *[total Bid amount in words (and figures)*] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in BDS provision for ITB Clause 17.1 and 18.2, respectively, and it shall remain binding upon us and may be accepted at any time before the expiration of that bid validity 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 or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per ITB Clause 5 of the Bidding Documents.

We likewise certify/confirm that the undersigned, [for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of <u>Name of</u> <u>Bidder</u>, has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the <u>Name of</u> <u>Project</u> of the <u>Name of the Procuring Entity</u>] [for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the <u>Name of Bidder</u>, to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for <u>Name of Project</u> of the <u>Name of the Procuring</u>.

We, further, confirm that, for purposes of this bid, and if such Bid is accepted, the address stated below shall be the Supplier's official address and contact numbers, as reflected in the (state proof of billing e.g. PhilGEPS Certificate, Mayor's Permit, SEC, Tax Clearance)

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.

Dated this _____ day of _____ 20____.

[signature over printed name of Authorized Representative]	[in the capacity of] (designation of Authorized Representative
Duly authorized to sign Bid for and	l on behalf of
[Re	gistered Company/Business Name of the Bidder]
Address :	Telephone No :
Telefax:	Email address :

BANK GUARANTEE FORM FOR ADVANCE PAYMENT

To: Department of Education

[name of Contract]

Gentlemen and/or Ladies:

In accordance with the payment provision included in the Special Conditions of Contract, which amends Clause 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]

SEALING AND MARKING OF BIDS

GOODS AND SERVICES

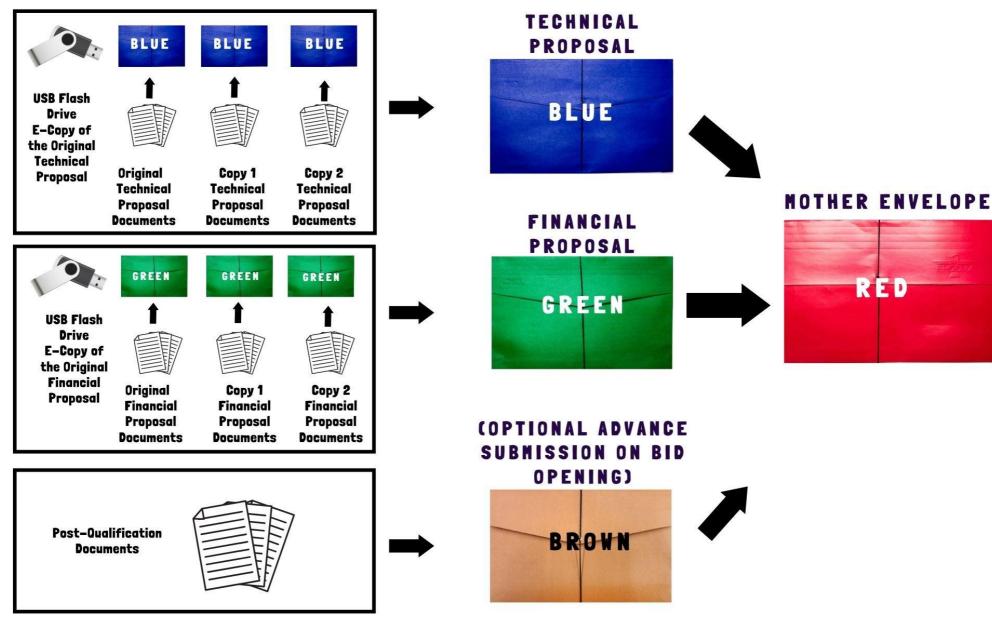


Illustration 1

ORIGINAL / COPY NO.

[BIDDER'S COMPANY NAME] [COMPANY'S OFFICE ADDRESS] PUBLIC BIDDING: [PROJECT TITLE]: BIDDING FOR <u>[no.]</u> : <u>[item description]</u> (if applicable)

> THE CHAIRPERSON BIDS AND AWARDS COMMITTEE DEPARTMENT OF EDUCATION CENTRAL OFFICE [VENUE OF BID OPENING]

DO NOT OPEN BEFORE [TIME AND DATE OF BID OPENING]

