



PROJECT: Mass Production and Supply of Science and Mathematics Equipment Packages to Public Elementary for Grades 1 to 3 & Grades 4 to 6, Public Junior High School for Grades 7 to 10 and Public Senior High School for Grades 11 to 12 (Core and Stem)

CONTRACT NO.: 2021-BLR4(001to006)-BV-CB-009- C129

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this day of AUG 26 2021 2021 by and between **DEPARTMENT OF EDUCATION**, located at DepEd Complex, Meralco Avenue, Pasig City, Philippines, represented herein by its Secretary, **LEONOR MAGTOLIS BRIONES**, as per Department Order No. 023, s. 2021 (hereinafter referred to as "DEPED"); and **NIKKA TRADING** represented herein by its Authorized Representative, **JONATHAN R. ZULUETA**, with office address at Unit 1014 Cityland Herrera Tower, V.A. Rufino St. corner Valero St., Salcedo Village, Makati City, Metro Manila, Philippines (hereinafter referred to as "NIKKA TRADING").

DEPED and NIKKA TRADING are collectively called "PARTIES."

WHEREAS, DEPED invited bids for the mass production and supply of Science and Mathematics Equipment Packages consisting of sixteen (16) Lots and received bids from eight (8) bidders; **DEPED** opened, read, and evaluated the bids of the eight (8) bidders and declared **NIKKA TRADING** as having the single calculated bid for Lot No. 7; after evaluation, **DEPED** post-qualified and declared the bid of **NIKKA TRADING** as the single calculated responsive bid for Lot No. 7 in the sum of **PHILIPPINE PESOS FORTY-SIX MILLION, EIGHTY-SEVEN THOUSAND, FIFTY-EIGHT and 93/100 (PhP 46,087,058.93) ONLY**, (hereinafter called the "Contract Price") detailed as follows:

Lot No.	Description	Amount (PhP)
7	GLASSWARES AND LAB TOOLS (MI-LOT 7)	46,087,058.93

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

Signature
ORIGINAL SIGNED
CERTIFIED DUPLICATE COPY
 CMDCOC-2021C129-013

Signature
 NIKKA TRADING's Witness

Signature
 JONATHAN R. ZULUETA
 NIKKA TRADING

Signature
 ARIZ DELSON ACAY D. CAWILAN
 DEPED's Witness

Signature
 LEONOR MAGTOLIS BRIONES
 Department of Education


NIKKA TRADING's Witness

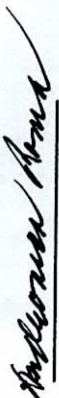

JONATHAN R. ZULUEÑA
NIKKA TRADING


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


LEONOR MAGTOLIS BRIONES
Department of Education

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:
 - i. Philippine Bidding Documents (PBD);
 - a. Schedule of Requirements;
 - b. Technical Specifications;
 - c. General and Special Conditions of the Contract;
 - d. Bid Bulletin No. 1 dated June 1, 2021;
 - e. Bid Bulletin No. 2 dated June 4, 2021;
 - f. Bid Bulletin No. 3 dated June 9, 2021; and
 - g. Bid Bulletin No. 4 dated June 15, 2021.
 - ii. NIKKA TRADING's bid, including the Eligibility Requirements, Technical and Financial Proposals, and all other documents or statements submitted;
 - iii. Performance Security;
 - iv. Notice of Award of Contract and NIKKA TRADING's conforme thereto; and
 - v. Other contract documents required by existing laws and/or DepEd in the PBD. NIKKA TRADING 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. The goods supplied by NIKKA TRADING under this Contract shall be picked-up or hauled by the third-party logistics provider designated by DEPED. Risk and title to the goods shall pass from NIKKA TRADING to DEPED upon receipt and final acceptance at NIKKA TRADING's warehouse. However, assembly, installation, start-up and/or commissioning of items, in cases where they are necessary, shall remain to be the responsibility and for the account of NIKKA TRADING notwithstanding inspection and acceptance at its warehouse or premises.
4. The goods shall be ready for pick-up or hauling by the third party logistics within **one hundred forty-four (144) calendar days** from receipt of NIKKA TRADING of the Notice to Proceed.
5. NIKKA TRADING 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 NIKKA TRADING is in default of any of its obligation under this contract. NIKKA TRADING 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.


NIKKA TRADING's Witness

6. The goods supplied under this Contract should conform to and comply with the standards mentioned in Section VI. Schedule of Requirements of the Bidding Documents, as amended by Bid Bulletin Nos. 1, 2, 3 and 4 dated June 1, 2021, June 4, 2021, June 9, 2021 and June 15, 2021, respectively, and must be in accordance with the technical specifications, a copy of which is hereto attached as Annex "A" and made an integral part hereof. Any proposal to deliver items of equivalent, higher or superior technical specifications, in lieu of those of the approved bids or samples shall be discretionary to **DEPED** and is subject to the evaluation and recommendation of the end-user or implementing units and the approval of the herein authorized representative and signatory.


JONATHAN R. ZULUETA
NIKKA TRADING

7. Goods with defects or non-compliant with the required specifications during pre-delivery inspection shall be replaced immediately by **NIKKA TRADING**, and replacement items shall be subjected to re-inspection. Goods with defects or non-compliant with the required specifications upon delivery shall be rejected by **DEPED** and replaced by **NIKKA TRADING** in accordance with the warranty provisions in the bidding documents. **DEPED** shall have the option to inspect **NIKKA TRADING's** premises covered by the Contract, at any time or stage of contract implementation, to monitor and assess **NIKKA TRADING's** capacity to discharge its contractual obligations.


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness

8. The procured goods or items contemplated under this Contract shall be inspected by **DEPED** Inspectorate Team prior to pick-up or hauling from **NIKKA TRADING's** warehouse in accordance with the provisions of the Special Conditions of the Contract, the Schedule of Requirements, or otherwise indicated in other parts of the bidding documents.

9. In case **NIKKA TRADING** encounters condition(s) impeding timely delivery of the goods, **NIKKA TRADING** shall promptly notify **DEPED** Procurement Management Service-Contract Management Division (ProcMS-CMD) in writing of such condition(s). As a rule and on account of the emergency nature of this project, no work suspensions and/or contract delivery period extension shall be allowed.

10. The Contract Price shall be paid to **NIKKA TRADING** in accordance with the following disbursement procedures:

10.1. An advance payment not to exceed fifteen percent (15%) of the Contract Price shall be allowed and paid within sixty (60) calendar days from signing of the contract. An irrevocable Letter of Credit or Bank Guarantee of an equivalent amount must be submitted, and shall remain


LEONOR MAGTOLIS BRIONES
Department of Education

valid until the goods are delivered, and accompanied by a claim for advance payment.

10.2. **NIKKA TRADING** may submit a request for payment based on Progress Reports which shall be attached to the progress billing and include the following: (i) cumulative quantities of items delivered based on the schedule of deliveries and other relevant terms and conditions of the Contract; (ii) Inspection and Acceptance Reports (IARs), including certification by **NIKKA TRADING**, duly signed and dated by the authorized representative of the **DEPED** indicating that the items 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.

10.3. Subject to the recoupment of the advance payment contemplated in Clause 10.1. above, and retention contemplated in the immediately succeeding clause, payment shall be made to **NIKKA TRADING** 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:

10.3.1. For the initial progress payment, a minimum of twenty-five percent (25%) of the Contract Price shall be paid to **NIKKA TRADING** upon a minimum of twenty-five percent (25%) delivery and acceptance of the items by **DEPED's** authorized representative;

10.3.2. Final payment shall constitute release of the retention money in case of expiry of the warranty period, or whatever is left of it, after it has been called for use under the warranty provision.

11. 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 equal to three percent (3%) of the Contract Price required under Section 62 of R.A. 9184 and its revised IRR.

11.1. The warranty period of one year, for applicable items as specified in Annex "J" of the bidding documents, shall reckon from the date of issuance of Certificate of Final Acceptance by **DEPED**.

12. **NIKKA TRADING** shall be liable for liquidated damages for the delay in its performance 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 and accepted by **DEPED**. **DEPED** shall deduct the liquidated damages from any money due or which may become due to


JONATHAN R. ZUIJETA
NIKKA TRADING's Witness


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


LEONOR MACTOLIS BRIONES
Department of Education


LEONOR MACTOLIS BRIONES
Department of Education

Anderson Monro
NIKKA TRADING's Witness

NIKKA TRADING, or collect from any of the securities or warranties posted by NIKKA TRADING, 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.

- 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 Agreement. Should such dispute not be resolved amicably, it shall be submitted to arbitration in the Philippines according to the provisions of Presidential Decree No. 242 and Executive Order No. 292. Provided, however, that by mutual agreement, the Parties may agree in writing to resort to other alternative modes of dispute resolution.

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

SIGNED, SEALED AND DELIVERED BY:

[Signature]
JONATHAN R. ZULUETA
NIKKA TRADING

[Signature]
LEONOR MAGTOLIS BRIONES
Secretary
Department of Education

[Signature]
JONATHAN R. ZULUETA
Authorized Representative
Nikka Trading

[Signature]
ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness

SIGNED IN THE PRESENCE OF:

[Signature]
ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness

[Signature]
NIKKA TRADING's Witness

[Signature]
LEONOR MAGTOLIS BRIONES
Department of Education

CERTIFIED FUNDS AVAILABLE: ₱ 46,087,078.93

[Signature]
MA. RHUNNAL. CATALAN
Chief Accountant
Chief Accountant

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

ACKNOWLEDGMENT

BEFORE ME, a Notary Public in and for **MAKATI CITY**, Philippines,
this ____ day of **AUG 26 2021** 2021 personally appeared:

NAME **GOVERNMENT ISSUED ID**
(Number, Issued On, Issued By)

LEONOR MAGTOLIS BRIONES
Department of Education

JONATHAN R. ZULUETA
Nikka Trading

*Phil. passport No. PG219471A
Issued on 7/28/2018; DFA NCR West*

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. 742;
Page No. 70;
Book No. 96;
Series of 2021.

ATTY. OSIAS M. MERIOLES, JR.
NOTARY PUBLIC
UNTIL DECEMBER 31, 2021
No. 33 J. P. Rizal Ext., Comembo, Makati City, Philippines
PTR NO. 0025587 / 01/04/2021 / MAKATI CITY
IBP NO. 137120 / 12/29/2020
ROLL NO. 52598 / APPT. NO. M-134
Tel. No. (02) 8882-7282

Ariz Delfon Acay D. Cawilan
ORIGINAL SIGNED 6
CERTIFIED DUPLICATE COPY
CMDCDC-2021C129-013

Ariz Delfon Acay D. Cawilan
NIKKA TRADING's Witness

Jonathan R. Zulueta
JONATHAN R. ZULUETA
NIKKA TRADING

Ariz Delfon Acay D. Cawilan
ARIZ DELFON ACAY D. CAWILAN
DEPED's Witness

Leonor Magtolis Briones
LEONOR MAGTOLIS BRIONES
Department of Education

Annex "A"

Lot No. 7. GLASSWARES AND LAB TOOLS

Item No.	Description	Technical Specifications
1	<p>Beaker, 1000 mL.</p> <p>Quantity: 11,395</p>	<p>Used to serve as container for mixing and for heating liquids.</p> <p>Able to serve as container for mixing and for heating liquids.</p> <p>Griffin type, borosilicate, transparent, bubble-free glass</p> <p>Cylindrical container with flat bottom</p> <p>2.5mm</p> <p>Permanent white graduations, with white enamel marking spot</p> <p>With pour spout</p> <p>1000 mL</p> <p>Single graduated metric scale</p> <p>Graduation starts at 200 mL in 100 mL increments</p> <p>150mm</p> <p>109mm</p> <p>No cracks and sharp parts</p> <p>Packed in a compartmentalized box</p>
2	<p>Dish, Petri</p> <p>Quantity: 11,395</p>	<p>Used to secure the specimen under study.</p> <p>Able to secure the specimen under study.</p> <p>Borosilicate, circular glass with beaded edge;</p> <p>Bubble-free, plain surface</p> <p>100 mm</p> <p>90 mm</p> <p>21.0 mm</p> <p>3.0 mm</p> <p>No cracks and sharp edges</p> <p>Packed in a compartmentalized box</p>
3	<p>Tong, Beaker</p> <p>Quantity: 3,545</p>	<p>Used to hold heated beakers.</p> <p>Able to secure hot beakers.</p> <p>Scissor-like tool with plastic-coated jaws</p> <p>6.5 mm</p> <p>Flat riveted joint</p> <p>263 mm</p> <p>Holds beakers from 50mL to 1000 mL</p> <p>Packed in a box</p>
4	<p>Beaker, borosilicate, 100 mL</p> <p>Quantity: 14,940</p>	<p>Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Able to contain/hold /prepare solids and liquids during chemical reaction up to 100 mL capacity and heats them</p>

		<p>over a Bunsen burner's flame up to more than 150°C for normal, standard use service</p> <p>Griffin type, low form</p> <p>Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid in pouring</p> <p>Borosilicate</p> <p>52 mm</p> <p>71 mm</p> <p>2.0 mm</p> <p>100 ml</p> <p>20 mL in 10 mL increments.</p> <p>20 mL to 80 mL</p> <p>Permanent white enamel graduations of approximate volumes, inscriptions</p> <p>Large white marking spot</p> <p>Features an easy-pour spout</p> <p>Single graduated metric scale</p> <p>Heating up to 200-230°C for normal, standard use service</p> <p>Wrapped in paper, enclosed in bubble wrap, and packed in a compartmentalized box</p> <p>No cracks, chipped rims and other defects</p> <p>Cordial</p>
5	<p>Beaker, borosilicate, 250 mL</p> <p>Quantity: 33,685</p>	<p>Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burners flame up to more than 150°C for normal, standard use service</p> <p>Able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burners flame up to more than 150°C for normal, standard use service</p> <p>Griffin type, low form</p> <p>Cylindrical container with straight sides, a flat bottom. and with a small spout (or "beak") to aid pouring</p> <p>Borosilicate</p> <p>69.6 mm</p> <p>92 mm</p> <p>2.5 mm</p> <p>Permanent white enamel graduations of approximate volumes, inscriptions and markings enameled onto the glass</p> <p>Large white marking spot</p> <p>Features an easy-pour spout</p> <p>Double graduated metric scale</p>

		<p>250 mL etched onto the glass Marking graduation to fill: starts at 25 mL in 25mL increments Marking graduation to empty: starts at 0 mL in 25 mL increments 25 mL interval 25 mL to 200 mL Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box Heating up to 200°C for normal, standard use service No cracks, chipped rims and other defects Cordial</p>
6	<p>Beaker, borosilicate, 50 mL Quantity: 14,940</p>	<p>Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burners flame up to more than 150 °C Able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner flame up to more than 150 °C Cylindrical container with straight sides, a flat bottom with a small spout (or "beak") to aid pouring Borosilicate 41.6 mm 55 mm 1.75 mm With Capacity: 50 mL and ± 5% enameled onto the glass Graduation starts: at 10 mL in 10 mL increments Graduation interval: 10 mL Graduation range: 10-40 mL With permanent white enamel graduations of approximate volumes, inscriptions enameled onto the glass Large white marking spot Features an easy-pour spout Single graduated metric scale Heating up to 150°C for normal, standard use service Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box No cracks, chipped rims and other defects Cordial</p>
7	<p>Beaker, borosilicate, 500 mL Quantity: 14,940</p>	<p>a) Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner flame up to 150°C for normal, standard use service and b) to serve as a water bath when heating flammable</p>

		<p>chemicals instead of an open flame to prevent ignition.</p> <p>Able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath</p> <p>To serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition.</p> <p>Berzeliuss type, tall form</p> <p>Cylindrical container with straight sides, a flat bottom, with a small spout (or "beak") to aid pouring</p> <p>Borosilicate</p> <p>79 mm</p> <p>137 mm</p> <p>2.0 mm</p> <p>500 mL; ± 5% etched/embossed onto the glass</p> <p>Permanent white enamel graduations of approximate volumes, inscriptions and</p> <p>Large white marking spot</p> <p>Easy pour spout</p> <p>Double graduated metric scale</p> <p>Marked to fill: Graduation starts at 50 mL in 50 mL increments</p> <p>Graduation starts at 0 mL in 50 mL increments</p> <p>Heating up to 200°C for normal, standard use service</p> <p>Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box</p> <p>No cracks, chipped rims and other defects</p> <p>Cordial</p>
8	<p>Burette, 10 mL capacity (acid)</p> <p>Quantity: 335</p>	<p>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 concentration of solutions</p> <p>Able to 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 concentration of solutions</p> <p>Class A</p> <p>Long, graduated glass tube, with a stopcock at its lower end and a tapered capillary tube at the stopcock's outlet.</p> <p>Borosilicate</p> <p>9 mm</p> <p>420 mm</p>

9	Burette, 10 mL capacity (base) Quantity: 335	<p>600 mm 10 ml Has permanent markings, fine sharp lines and easy-to-read numbers Fitted with grease-free interchangeable with 1.5 mm bore With Certifications/Compliance 2122A PTFE 0.05 mL subdivisions red colored-scale for easy reading Placed in bubble wrap, enclosed in a polystyrene and Packed in a sturdy box Free from breakage, cracks, chipped rims, sharp edges and other defects Pyrex</p>
		<p>Used to hold/ contain the base as a titrant to be delivered/ dispensed to titrate an acid up to 10 mL capacity in acid-base titration to determine concentration of solutions</p> <p>Able to 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 concentration of solutions</p> <p>Class B Long, graduated glass tube, with a stopcock at its lower end and a tapered capillary tube at the stopcock's outlet. Borosilicate 0.354 inch. 22 inches 10 mL 0.05 mL With screw-type PTFE Rotaflow stopcock Calibrated to deliver "TD" Accuracy as per class B complies with BS 846 #001 Leak proof stopcock Machine Jet for flow control The graduation line is sharp and permanent. With white colored-scale for easy readin With Certifications/Compliance With Paced in bubble wrap, enclosed in polystyrene and</p>

		<p>packed in a sturdy box</p> <p>Free from breakage, cracks, chipped rims and sharp edges and other defects</p> <p>With User's Manual Assembly Guides in English</p> <p>With Activity Sheets/Teacher's Manual in English</p> <p>Cordial</p>
10	<p>Burner, Alcohol, glass, 150 ml.</p> <p>Capacity</p> <p>Quantity: 33,685</p>	<p>Used to produce hot, consistent open flame for slow/gentle heating of glasswares and substances</p> <p>Able to produce hot, consistent open flame a)for slow/gentle heating of glasswares and substances</p> <p>Can withstand prolonged heating without breaking</p> <p>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</p> <p>Bend a glass tubing; heat, to sterilize, to accelerate, and to trigger chemical reactions, for combustion purposes and techniques</p> <p>Globe-shaped body and flat base (bottom) with threaded mouth</p> <p>Clear, transparent, and bubble-free glass</p> <p>85 mm diameter</p> <p>104 mm</p> <p>150 mL</p> <p>Wick holder permanently attached to a threaded base</p> <p>Nickel-plated brass</p> <p>Threaded</p> <p>One (1) pc cotton fiber/strand braided wick perfectly fitted to the wicktube</p> <p>Cotton fiber/strand</p> <p>Braided</p> <p>7 inches</p> <p>7 mm</p> <p>With snuff/snap-on cover/cap</p> <p>Ten (10) pc replacement braided cotton fiber/strand wicks</p> <p>Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box</p> <p>No cracks, chipped rims and other defects</p> <p>Cordial brand</p>
11	Burner, Bunsen	<p>Used to :</p> <p>a) produce single, hot, continuous, consistent open blue</p>

	<p>Quantity: 14,940</p>	<p>flame</p> <p>b) for slow/gentle heating of glasswares and substances,</p> <p>c) rapidly heat high-boiling liquids with low flammability like water</p> <p>d) heat, sterilize/accelerate/ trigger chemical reactions,</p> <p>e) for combustion purposes</p> <p>Able to produce single, hot, continuous, consistent open blue flame to:</p> <p>a) visually determine the hottest part of the Bunsen flame</p> <p>b) 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</p> <p>c) bend a glass tubing</p> <p>d) used as a heating medium to demonstrate distillation, as one of the simple separation techniques</p> <p>e) slow/gentle heating of glasswares and substances</p> <p>f) rapidly heat high-boiling liquids with low flammability like water</p> <p>g) heat, to sterilize, to accelerate, and to trigger chemical reactions,</p> <p>h) for combustion purposes and techniques</p> <p>Gas type with accessories</p> <p>Shape of burner tube: Long, hollow tube with stabilizer top and serrated inlet tube</p> <p>Material for burner tube: Aluminum with the following dimensions:</p> <p>a) Diameter of burner tube: 13 mm diameter</p> <p>b) Over-all height: 154 mm</p> <p>With flame stabilizer</p> <p>With threaded gas needle valve (located opposite to serrated inlet tube)</p> <p>Nickel-plated zinc-alloy</p> <p>Individually packed in a sturdy box</p> <p>With User's Manual and Operations Guide in English</p> <p>Comes with Activity Sheets with Teacher's Manual in English</p> <p>Cordial</p>
12	<p>Cork borer</p> <p>Quantity: 2,346</p>	<p>Used to bore or to cut a round hole of six different diameters in a cork/rubber stopper with a steel ramrod/eject rod pushing the removed cork out of the</p>

		<p>borer</p> <p>Able to bore or to cut a round hole of six different diameters in a cork or rubber stopper and remove cork out of the borer by pushing it with a steel ramrod/eject rod</p> <p>Shape of cork borer: Long, hollow round rod/tube with sharpened ends</p> <p>Material of tube/rod: Nickel-plated steel borer</p> <p>A set of six (6) different diameter sizes:(3.9 mm, 5.0 mm, 6.9 mm, 8.6 mm, 10.0 mm, 11.5 mm)</p> <p>Comes with a handles which are individually and permanently numbered (1-6) for easy identification handle</p> <p>Shape of handle: T-shaped</p> <p>Material of handle: Hard plastic</p> <p>Finish: Smooth</p> <p>Color of handle: Red</p> <p>Includes a ramrod/eject rod pushing the removed cork out of the borer Material of ramrod/eject rod: Steel</p> <p>Resealable plastic pouch</p>
13	<p>Cork Stopper # 5 (for Ø 16mm test tube) Quantity: 14,940</p>	<p>Used to seal the openings of 16 mm diameter test tubes and other laboratory glassware to prevent leaks, hazards and contamination to yield positive results during chemical reactions</p> <p>Able to seal the openings of 16 x 150 mm test tubes and other laboratory glassware and to prevent leaks, hazards and contamination to yield positive results during chemical reactions</p> <p>Extra Select Grade with fewer lenticels (crevices) bag</p> <p>Cylindrical with a tapered bottom end</p> <p>Bark of Cork oak tree (elastic and near impermeable</p> <p>Height: 22 mm</p> <p>Top Ø: 17.5 mm</p> <p>Bottom Ø: 14 mm</p> <p>Hole Ø: 4.8 mm</p> <p>Dimension tolerance on height, top and bottom diameter: ± 0.5 mm</p> <p>Packed in resealable plastic</p> <p>Schoolab brand</p>
14	<p>Crucible with lid/cover Quantity: 14,940</p>	<p>Used as a container to heat metals or other substances may be melted or subjected to very high temperatures</p> <p>Must be able to contain elements, compounds, metals, organic compounds or other substances to be melted or</p>

		<p>subjected to very high temperatures to determine mass relationship in a chemical reaction</p> <p>High/tall form Cylindrical 30 mL Porcelain, with the following dimensions: 50 mm 26 mm 40 mm</p> <p>Uniform thickness and density Glazed inside and out, except outside bottom and rim. Crucible cover completely glazed except for rim. Withstands temperatures up to 565 degrees Centigrade. Free from breakage, cracks, chipped and sharp edges/rims Cordial brand</p>
15	Dish, Evaporating, 75 mL Quantity: 33,685	<p>Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leave residual chemical solute</p> <p>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</p> <p>Deep form, broad, and wider at the top than bottom and with round bottom with pouring lip/spout</p> <p>Porcelain, with the following dimensions: Diameter: 80 mm Height: 31 mm Capacity: 75 mL With pouring lip/spout</p> <p>Withstand temperatures up to 1150°C</p> <p>Uniformly glazed inside (except for rim) and partly uniformly glazed outside except bottom surface.</p> <p>No cracks, chipped rims and other defects</p> <p>Wrapped in paper, and packed in a sturdy box</p> <p>Cordial brand</p>
16	Distillation set-up: Condenser, Liebig- type Quantity: 134	<p>Used to condense the water vapor into its liquid state producing a distillate</p> <p>Able to condense the water vapor into its liquid state producing a distillate, used in distillation, as one of the simple separation techniques</p> <p>Two concentric straight glass tubes, the inner one being longer and protruding at both extremities, surrounded</p>

		<p>by a water jacket with sealed inner tube and outer tube Transparent, bubble-free 3.3 borosilicate glass with the following dimensions: 10 mm 41 mm 300 mm 460 mm Clear. Standard Taper Outer and Inner Joints: 24/40 With a drip tip at the bottom Accessories: a) One (1) pc rubber stopper that will fit upper (inlet) tube # 3 One (1) hole 5mm Rubber tube Non-tacky, Latex rubber tube Inner diameter: 7 mm Outer diameter: 12 mm Length: 3 m long Amber 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 Free from breakage, cracks and chipped parts With User's Manual in English on the installation, use and care, proper storage with repair and maintenance With Activity Sheets/Teacher's Manual in English 13. Cordial</p>
17	<p>Distillation set-up: Distilling Flask, borosilicate, 250mL Quantity: 134</p>	<p>Used to hold/ contain the liquid to be distilled in distillation, as one of the simple separation technique Long neck, a side arm that facilitates condensation, and a round bottom for uniform heating. Borosilicate glass 240 mm 130 mm 77 mm below the top of the neck. 250 mL Supplied with an accessory rubber stopper that fits the mouth of the flask</p>

		<p>Number of hole: One (1) Diameter of hole: 5 mm Free from breakage, cracks and chipped parts Wrapped in bubble wrap, enclosed in a polystyrene and packed in a sturdy box Free from cracks and chipped parts Cordial</p>
18	<p>Distillation set-up: Rubber Tube, 2000mm Quantity: 134</p>	<p>Used to connect to a water jacket in a Liebig condenser and helps cool water to flow in and out of the condenser and helps the heated water vapor in the condenser return to its liquid state.</p> <p>Used to connect to a water jacket in a Liebig condenser and helps cool water to flow in and out of the condenser and helps the heated water vapor in the condenser return to its liquid state, in distillation, as one of the simple separation techniques.</p> <p>Shape: Cylindrical, flexible hollow tube Material: A non-tacky, non-toxic, Latex rubber tube Dimensions Inner diameter: 7 mm Outer diameter: 12 mm Length: 3 m long Wall thickness: 2.5 mm Color: Amber Cordial</p>
19	<p>Double burette clamp Quantity: 335</p>	<p>Used to hold and secure two burettes on a stand, so that each burette is fixed and more convenient for the experiment.</p> <p>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.</p> <p>Double Y-shaped or butterfly-shaped items which have spring action clamps. Die cast aluminum with chemical resistant white enamel finish, with the following dimensions: 260 mm 120 mm 15 mm White Vinyl Color of sleeves/jaws/grips: Blue/ red/ black 110 mm</p>

		<p>15- 36 mm Four spring action clamps, 2 on each opening Two separate adjusting knobs or squeeze clamping mechanism White Mounts directly to standard support rod with built in hook connector. The dual metal burette clamp supports burettes from 10 mL (10 cc) to 100 mL (100 cc). 12 mm No sharp edges Cordial brand</p>
20	<p>Electrolysis Apparatus, student-type (Brownlee) Quantity: 14,940</p>	<p>Used to demonstrate and describe the decomposition reactions at the electrodes during the electrolysis of water, producing 1:2 ratio of hydrogen & oxygen gases respectively, by passing DC current through water. Able to demonstrate and describe the decomposition reactions at the electrodes during the electrolysis of water, producing 1:2 ratio of hydrogen & oxygen gases respectively, by passing DC current through water. Positive results occur: An ember in a stick is introduced onto the test tube with hydrogen gas, it pops. The gas is oxygen, the ember must glow more Cylindrical container with a flat bottom, with a wide mouth and a small turned-out lip for pouring Clear, transparent, and bubble free borosilicate glass with the following dimensions: 120 mm 162 mm 1000 mL Two (2) electrodes Platinum Two binding posts (one red, one black) Holder of two test tubes: Two (2) spring clips two test tubes Rimless Graduated from its bottom to top. Zero starts at bottom Borosilicate 20 mm 150 mm long 25 ml With heavy uniform wall thickness, excellent heat</p>

	<p>resistance, round bottom glass</p> <p>Permanent graduation of approx. volume and inscriptions in high contrast white enamel.</p> <p>With power source: 220V AC input)/ (0-12 V) DC output, and with switch selector</p> <p>With 9 V battery with one (1) battery snap</p> <p>With two (2) connecting wires (1 red, 1 black)</p> <p>12 in</p> <p>Stranded</p> <p>Gauge no: 20</p> <p>With alligator clip soldered on one end of the wires with banana plugs soldered on the other end of each wire (1 red, 1 black)</p> <p>With two (2) replacement test tubes</p> <p>rimless</p> <p>Graduated from its bottom to top. Zero starts at bottom</p> <p>Borosilicate</p> <p>Diameter: 18 mm diameter</p> <p>150 mm long</p> <p>25 mL capacity</p> <p>With heavy uniform wall thickness, excellent heat resistance, round bottom glass</p> <p>With permanent graduation of approx. volume and inscriptions in high contrast white enamel.</p> <p>Comes with two (2) solid rubber stoppers to fit perfectly the two (2) (18 x 150 mL) test tubes</p> <p>With a well written Operations Manual and Assembly Guide in English</p> <p>15. With sample Activity Sheets/Teacher's Manual in English</p> <p>16. With Detailed instructions provided.</p> <p>a) For List of materials, In Table form</p> <p>b) For User's Manual, Teacher's Guide, Student Worksheets, Instruction Sheets/Assembly Guides, In sentences format</p> <p>i) With sentences grammatically correct and</p> <p>ii) With correct spelling and terminologies, punctuations and others</p> <p>c) In original print, not photocopied</p> <p>d) In colored pictures, drawings/illustrations</p> <p>e) in ten (10) mil laminated</p> <p>Submitted keycard</p> <p>i) Paper Size: A4 size, 80 gsm</p> <p>ii) Font: Times New Roman</p> <p>iii) Font size: 12</p>
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		<p>iv) Orientation: Portrait</p> <p>v) Margins on all sides with 2-point width border line</p> <p>vi) Line with arrow head of 1.25 point with width shall point to the specific part being labeled</p> <p>Complied during Pre-delivery inspection</p> <p>Placed in bubble wrap, enclosed in polystyrene and comes complete with a padded storage box.</p> <p>Free from breakage, cracks, sharp rims and other defects</p> <p>Atis</p>
21	<p>Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 mL</p> <p>Quantity: 67,370</p>	<p>Used to:</p> <p>a) contain/hold a small chemical reaction,</p> <p>b) mix solids and liquids,</p> <p>c) heat substances over a Bunsen/alcohol burner's flame up to over 150 °C or</p> <p>d) collect them in a titration/distillation experiment</p> <p>Able to:</p> <p>a) contain/hold a small chemical reaction,</p> <p>b) mixes solids and liquids during chemical reaction,</p> <p>c) heats substances up to 150°C over a Bunsen burner's flame up to 250 mL, or</p> <p>d) serves as a reaction vessel in a titration experiment, and to collect distillate during distillation</p> <p>Conical body, a cylindrical short neck, narrow mouth, with sloping sides, and with a flat bottom</p> <p>Borosilicate</p> <p>81 mm</p> <p>132 mm</p> <p>2.5 mm</p> <p>29 mm</p> <p>Tolerance: ±6%</p> <p>250 mL capacity</p> <p>50 mL-200 mL</p> <p>Graduation interval: 25 mL</p> <p>Graduation starts at: 50 mL in 25 mL increments</p> <p>Uniform wall thickness</p> <p>Heavy duty beaded rim</p> <p>Permanent durable white enamel graduations with large, white enamel marking spot</p> <p>Withstand heating up to 150°C for normal, standard use service</p> <p>Individually packed in a compartmentalized box</p> <p>Free from breakage, cracks, chipped rims and other defects</p>

22	<p>Funnel, borosilicate, fluted Quantity: 33,685</p>	<p>Cordial brand</p> <p>Used to direct the smooth flow of the liquid or fine-grained substances into another container to prevent spills</p> <p>Able to direct the smooth flow of the liquid or fine-grained substances into another container to prevent spills</p> <p>Fluted type</p> <p>A wide, inverted conical top with narrow short circular tube at the bottom</p> <p>Borosilicate</p> <p>89 mm</p> <p>9 mm</p> <p>70 mm</p> <p>142 mm</p> <p>With heavy beaded rim and heavy uniform wall for strength.</p> <p>With slanted tip, filter angle (angled 60°) and depressed inside fluting help reduce filtering time</p> <p>Wrapped in paper, enclosed in bubble wrap, and individually packed in a sturdy box</p> <p>Free from breakage, cracks, chipped rims and other defects</p> <p>Cordial</p>
23	<p>Glass Tubing, Ø 6 mm x Ø 4 mm x 1500 mm long Quantity: 29,880</p>	<p>Used to contain/hold/mix liquids or gases during chemical reactions and to connect other pieces of equipment/glassware's to a gas or liquid assembly</p> <p>Able to:</p> <p>Able to bent to connect other pieces of equipment/glassware's 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</p> <p>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</p> <p>Long slender hollow glass</p> <p>Soda lime</p> <p>6.4 mm</p> <p>Tolerance: ±0.15</p> <p>1 mm</p>

		<p>Tolerance: ± 0.04 1500 mm Fire polished ends Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box Free from breakage, cracks, chipped edges and other defects Cordial</p>
24	<p>Manometer, Open U-tube Quantity: 335</p>	<p>Used to indicate the difference in the heights of the manometric liquid to measure pressure Able to indicate the difference in the heights of the manometric liquid to measure pressure by getting the pressure difference Differential pressure manometer U-shaped glass tube partially filled with liquid, with no moving parts and requires no calibration Glass 55 cm arm with funnel top on one arm and .5 cm bent (90°) with 15 mm rified tip on another arm Mounted on a board, fixed on a wooden stand for vertical mounting Wood Dimensions of back plate 550 mm 102mm With millimeter scale 0-50 cm 1 mm, with 0 at the bottom. Accessories: With latex tubing, 3.5 mm inner diameter.,7mm outer diameter Material of rubber tubing: Non-toxic non-tacky latex-rubber tubing for the laboratory activity. ii) Length of rubber tube: 3 meters Stand with glass tube placed in bubble wrap, enclosed in polystyrene and packed individually a sturdy box Accessories enclosed in resealable plastic bag With User's Manual in English With Activity Sheets Atis</p>
25	<p>Mortar and Pestle, porcelain, 150 mL. Quantity: 24,355</p>	<p>Used to pulverize/mash/ grind and to mix materials in a mortar using a pestle Able to pulverize/ mash/ grind and mixes materials in a mortar using a pestle to demonstrate how particle size</p>

		<p>affects solubility and the rate of chemical reaction.</p> <p>Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased.</p> <p>Bowl shape mortar, with wide mouth, and with deeply molded, smooth rounded bottom</p> <p>Porcelain 135 mm 73 mm 109 mm 150 mL</p> <p>With pouring lip</p> <p>Unglazed grinding surface (interior) and uniformly glazed exterior</p> <p>Pestle:</p> <p>Cylindrical with bulbous bottom with the following dimensions: 190 mm 48 mm</p> <p>Heavy bat-shaped porcelain</p> <p>Uniformly glazed on its handle and rough on opposite end</p> <p>Individually wrapped, enclosed in a bubble wrap and packed in a sturdy box</p> <p>No. cracks, chipped parts and other defects</p> <p>Cordial brand</p>
26	<p>Osmosis Apparatus Quantity: 335</p>	<p>Used to show that water passes through a semi-permeable membrane causing a rise in the level of water in the thistle tube</p> <p>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</p> <p>Shape of thistle tube: Long shaft of tube, with funnel-like section at the top and bottom</p> <p>With one (1) pc battery jar</p> <p>With one (1 pc) double thistle tube</p> <p>Material of thistle tube and jar: Clear, transparent bubble-free borosilicate glass with the following dimension:</p> <p>Length of double thistle tube: 16" (410 mm) (min)</p>

		<p>With an aluminum thistle tube support stand Comes with ten (10) pc semi-permeable membrane With one (1) pc O ring Placed individually in a bubble wrap, enclosed in a polystyrene and packed in a sturdy box With Activity Sheets With User's Manual Free from breakage, cracks, and chipped parts Cordial</p>
27	<p>Reagent Bottle, narrow-mouth, amber, borosilicate, 250 mL Quantity: 3,545</p>	<p>Used to contain/store and to provide UV protection of prepared light sensitive solutions/substances to prevent change/alteration in the composition of their contents</p> <p>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.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical narrow-mouth bottle 2. Material: Soda lime, bubble-free amber glass with the following dimensions: <ol style="list-style-type: none"> a) Bottle diameter range: 71.5 mm b) Neck I.D. range: 27.5 mm c) Over-all height range: 133.5 mm 3. Capacity: 250 mL 4. Socket size: 24/29 5. With octagonal plastic stopper 6. With permanent large with enamel. marking spot 7. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 8. No breakage, cracks, chipped rim and other defects 9. Cordial
28	<p>Reagent Bottle, wide-mouth, transparent, borosilicate, 250 mL Quantity: 14,940</p>	<p>Used to hold/ contain/store prepared solutions/substances</p> <p>Able to hold/contain/store prepared solutions/substances</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical wide-mouth bottle 2. Material: Borosilicate, clear, transparent and bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Bottle diameter: 69.5 mm b) Mouth diameter: 50 mm c) Height range: 134 mm 3. Capacity: 250 mL 4. Features no-drip pour lip

		<p>5. With ground-in glass stopper</p> <p>6. With air tight seal</p> <p>7. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box</p> <p>8.. No breakage, cracks, chipped rims and other defects</p> <p>9. Cordial</p>
29	<p>Rubber Stopper # 0 (for Ø 16mm test tube)</p> <p>Quantity: 14,940</p>	<p>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</p> <p>Able to seal the openings of 16 mm diameter 150 test tubes and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance.to prevent leaks, hazards and contamination</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical with a tapered bottom end SBR black rubber a) Height: 35 mm (min) b) Top Ø: 17 mm (min) c) Bottom Ø: 13 mm (min) d) Hole Ø: 5 mm (min) 3. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm 4. Hardness: 40± 5 Duro 5. Packed in resealable plastic bag 6. Schoolab
30	<p>Rubber Stopper # 6 for Erlenmeyer Flask (narrow-mouth) 250 mL, 1 hole</p> <p>Quantity: 11,730</p>	<p>Used to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one 1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction .to prevent leaks, hazards and contamination.</p> <p>Able to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance. with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical with a tapered bottom end

		<p>SBR black rubber</p> <ol style="list-style-type: none"> a) Height: 26 mm b) Top Ø: 32 mm c) Bottom Ø: 26 mm d) Hole Ø: 5 mm <ol style="list-style-type: none"> 3. Number of holes: With one (1) hole 4. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm 4. Hardness: 40± 5 Duro 6. Packed in resealable plastic bag 7. School lab
31	<p>Rubber Stopper # 6 for Erlenmeyer Flask (narrow- mouth) 250 mL, 2 holes</p> <p>Quantity: 3,545</p>	<p>Used to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Able to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Cylindrical with a tapered bottom end <p>SBR black rubber</p> <ol style="list-style-type: none"> a) Height: 25 mm b) Top Ø: 31.5 mm c) Bottom Ø: 26 mm d) Hole Ø: 5 mm <ol style="list-style-type: none"> 3. Number of holes: Two (2) holes 4. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm 4. Hardness: 40± 5 Duro 6. Packed in resealable plastic bag 7. Cordial
32	<p>Spoon-Spatula, porcelain and glazed</p> <p>Quantity: 33,685</p>	<p>Used to hold/contain and transfer solids and liquids from one container to the other</p> <p>Able to hold/contain and transfers solids and liquids from one container to the other</p> <p>Design Specifications:</p>

		<ol style="list-style-type: none"> 1. Shape: A broad, flat, flexible blade (spatula) on one end and a spoon on the other end. 2. Material: Uniformly glazed smooth finish porcelain with the following dimension: Overall Length: 141 mm (min) 3. Color: White 4. No breakage, cracks and chipped edges and other defects 5. Wrapped in paper, enclosed in bubble wrap and packed in a sturdy box 6. Cordial
33	<p>Stirring Rod, Ø6mm x 250mm long</p> <p>Quantity: 33,685</p>	<p>Used to mix liquids and solids</p> <p>Able to mix liquids and solids well to speed up the dissolving process and increases the rate of reaction</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Long, slender cylindrical solid glass, with the same thickness and slightly longer than a drinking straw and with rounded ends. 2. Material: Clear, transparent bubble-free stir stick solid borosilicate glass with the following dimensions: <ol style="list-style-type: none"> a) Diameter(Ø): 6 mm b) Length: 250 mm long 3. With rounded and fire polished ends 4. Wrapped in paper, enclosed in bubble wrap and packed in a box 5. No breakage, cracks and chipped unpolished ends 6. Cordial
34	<p>Test Tube brush</p> <p>Quantity: 33,685</p>	<p>Used to clean test tubes and other small sized glass wares</p> <p>Able to clean test tubes and other small-sized glassware with densely filled radial tip and head brush to make complete contact with walls, corners and bottom.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 17.5 mm b) Length: 96 mm c) Over-all length: 260 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle: Common loop twisted wire

		<p>5. With circular loop for hanging</p> <p>6. Packed in a resealable plastic bag</p> <p>7. No sharp metal parts</p> <p>8. Cordial</p>
35	<p>Test Tube, Ø16mm x 150mm long</p> <p>Quantity: 346,265</p>	<p>Used to contain/hold a small chemical reaction, to mix small quantities of solids and liquids, and to heat small quantities of substances</p> <p>Able to contain/hold a small chemical reaction and, mixes solids and liquids, heats small quantity of substances up to more than 100°C Cover a Bunsen burner flame</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Fingerlike length of glass tubing, open at the top, usually with a rounded lip at the top, and a rounded 'U' shaped bottom 2. Material of test tube: Borosilicate, clear, transparent and bubble-free, glass, with rim with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 16 mm diameter b) Thickness :1.6 mm c) Length: 150 mm long 3. Capacity: 20 mL 4. With heavy uniform wall thickness, excellent heat resistance 5. Test tubes must be reusable (not disposable) 6. With large, white enamel marking spot 7. With permanent graduation of approx. volume and inscriptions in high contrast white enamel. 8. Can withstand heating up to 150°C for normal, standard use service 9. Comes with a certification from the manufacturer that the test tube is reusable not disposable 10. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box 11. No breakage, cracks, chipped rims and other defects 12. Cordial
36	<p>Tong, Crucible</p> <p>Quantity: 14,940</p>	<p>Used to lift and hold crucibles, remove the lids from crucibles, transfer evaporating dishes or picking small objects out of a reaction container</p> <p>Able to lift and hold crucibles, remove the lids from crucibles, transfer evaporating dishes or picking small objects out of a reaction container.</p> <p>Design Specifications:</p>

		<p>1. Shape: Scissor-like tongs, with two pincers or pieces of metals that concave together, which allow the users to grasp a hot crucible, flasks, evaporating dishes, or even small beakers</p> <p>2. Material: Smooth finish stainless steel with the following dimensions:</p> <p>a) Overall Length: 10 inches/260 mm</p> <p>b) Reach: 8 1/2 inches</p> <p>5. With riveted joints</p> <p>6. With serrated tips.</p> <p>7. Enclosed in resealable bag and packed in a sturdy box</p> <p>8. No sharp edges</p> <p>9. Cordial</p>
37	<p>Vial, screw-neck, 25ml (with screw-type plastic cap)</p> <p>Quantity: 168,425</p>	<p>Used to hold/ contain/ store/ mix small quantities of samples/ solutions/ substances up to 25 mL</p> <p>Able to hold/ contain/ store/ mix small quantities of samples up to 25 mL</p> <p>Design Specifications:</p> <p>1. Type: Threaded Screw cap</p> <p>2. Shape: Bottle-like shape with a threaded neck, polypropylene closure and with a flat bottom</p> <p>3. Material: Borosilicate clear, transparent, and bubble-free glass with the following dimensions:</p> <p>a) Outside Diameter: 28 mm</p> <p>b) Length: 75 mm</p> <p>4. With screw- type plastic cap</p> <p>5. Shape of neck: Cylindrical, round</p> <p>6. Neck finish: Continuous thread</p> <p>7. Cap Color: Black/Pink</p> <p>8. Cap Attached: No</p> <p>9. Cap Material: Polypropylene (plastic)</p> <p>10. Closure style: Solid top, screw thread cap</p> <p>11. Neck size: 24-400</p> <p>12. Cap liner: Foam lined</p> <p>13. Capacity: 25 mL</p> <p>14. Packed individually in a compartmentalized box</p> <p>15. No breakage, cracks, chipped rims and other defects</p> <p>16. Cordial</p>
38	<p>Vial, screw-neck, 50ml (with screw-type plastic cap)</p> <p>Quantity: 168,425</p>	<p>Used to hold/ contain/ store/ mix small quantities of samples/ solutions/ substances up to 50 mL</p> <p>Able to hold/ contain/ store/ mix small quantities of samples up to 50 mL</p>

		<p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Wide mouth 2. Shape: Bottle-like shape with a threaded neck, polypropylene closure and with a flat bottom 3. Material: Borosilicate clear, transparent, and bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Outside Diameter: 30 mm b) Length: 108 mm 4. Capacity: 50 mL With screw- type plastic cap 5. Shape of neck: Cylindrical, round 6. Neck finish: Continuous thread 7. Cap Color: Black/Pink 8. Cap Attached: No 9. Cap Material: Polypropylene (plastic) 10. Closure style: Solid top, screw thread cap 11. Neck size: 24-400 12. Cap liner: Foam lined 13. Packed individually in a compartmentalized box 14. No breakage, cracks, chipped rims and other defects 15. Cordial
39	<p>Watch Glass, Ø90mm</p> <p>Quantity: 33,685</p>	<p>Used to:</p> <ol style="list-style-type: none"> a) cover glasswares like beakers b) evaporates solvents in a sample and c) holds/contains liquids and solids prior to heating. <p>Able to</p> <ol style="list-style-type: none"> a) cover glassware like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Shape: Circular concave 2. Material: Borosilicate, clear and bubble-free glass with the following dimensions: <ol style="list-style-type: none"> a) Diameter: 90 mm ± 1 mm b) Thickness range: 1.5 mm to 2 mm 3. Fire-polished rims/edge. 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box 5. No breakage, cracks, chipped edges and other defects 6. Cordial