



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-CA27

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this 26 day of AUG 26 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 lowest calculated bid for Lot No. 5; after evaluation, DEPED post-qualified and declared the bid of NIKKA TRADING as the lowest calculated responsive bid for Lot No. 5 in the sum of PHILIPPINE PESOS ONE HUNDRED FIFTEEN MILLION, THREE HUNDRED EIGHTY-ONE THOUSAND, TWENTY and 34/100 (PhP 115,381,020.34) ONLY, (hereinafter called the "Contract Price") detailed as follows:

Lot No.	Description	Amount (PhP)
5	MEASURING INSTRUMENTS (MI-LOT 5)	115,381,020.34

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.

ORIGINAL SIGNED
 CERTIFIED DUPLICATE COPY
 CMDCDC-2021C127-011

[Signature]
 NIKKA TRADING's Witness

[Signature]
 JONATHAN R. ZULUETA
 NIKKA TRADING

[Signature]
 ARIZ DELSON
 DEPED's Witness

[Signature]
 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


NIKKA TRADING's Witness


JONATHAN R. ZULUETA
NIKKA TRADING


ARIZ DELSON ACAY D. CAHILAN
DEPED's Witness


LEONOR MAGTOLIS BRIONES
Department of Education

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.

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.
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.
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


NIKKA TRADING's Witness


JONATHAN R. ZULUETA
NIKKA TRADING


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


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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


NIKKA TRADING's Witness


JONATHAN R. JULUETA
NIKKA TRADING


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


LEONOR MAGTOLIS BRIONES
Department of Education

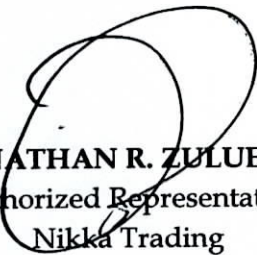
NIKKA TRADING, or collect from any of the securities or warranties posted by NIKKA TRADING, whichever is convenient to DEPED. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the Contract Price, DEPED may rescind or terminate the Contract, without prejudice to other courses of action and remedies available under the circumstances.

13. 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:


LEONOR MAGTOLIS BRIONES
Secretary
Department of Education


JONATHAN R. ZULUETA
Authorized Representative
Nikka Trading

SIGNED IN THE PRESENCE OF:


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


NIKKA TRADING's Witness

CERTIFIED FUNDS AVAILABLE: ₱115,381,020.34


MA. RHUNNA L. CATALAN
Chief Accountant
Chief Accountant

ORIGINAL SIGNED 5
CERTIFIED DUPLICATE COPY
CMDCDC-2021C127-011


NIKKA TRADING's Witness


JONATHAN R. ZULUETA
NIKKA TRADING


ARIZ DELSON ACAY D. CAWILAN
DEPED's Witness


LEONOR MAGTOLIS BRIONES
Department of Education

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

Phil. Passport No. PG219471A

JONATHAN R. ZULUETA
Nikka Trading

*Phil. Passport No. PG219471A
Issued on 2/28/2018, 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.

ATTY. OSIAS M. MERIOLES, JR.

NOTARY PUBLIC

UNTIL DECEMBER 31, 2021

Doc. No. 346;

Page No. 31;

Book No. 96;

Series of 2021.

No. 33 J. P. Rizal Ext., Comenbo, 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

ORIGINAL SIGNED 6
CERTIFIED DUPLICATE COPY
CMDCOC-2021C127-011

Ariz Delson Cay D. Cawilan
NIKKA TRADING's Witness

Jonathan R. Zulueta
JONATHAN R. ZULUETA
NIKKA TRADING

Ariz Delson Cay D. Cawilan
ARIZ DELSON CAY D. CAWILAN
DEPED's Witness

Leonor Magtolis Briones
LEONOR MAGTOLIS BRIONES
Department of Education

Lot No. 5. MEASURING INSTRUMENTS

Item No.	Description	Technical Specifications
1	<p>Anemometer with Wind Vane, Cup type</p> <p>Quantity: 7,498</p>	<p>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</p> <p>Performance Specifications: Able to measure wind speed in real time and indicate the direction where the wind is coming from and where it is heading</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Anemometer and wind vane combined in 1 unit 2. Minimum Dimension of unit: 350 mm x 100 mm x 100 mm (H x W x D) 3. Powered by 3 pcs 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 6. Made of corrosion resistant plastic 7. All labels, inscriptions, and instructions in English 8. Submitted undertaking 9. Brand: Schoolab
2	<p>Anemometer, Simple</p> <p>Quantity: 3,749</p>	<p>Functional Specifications: Used to determine wind speed by calculating the number of rotations the rotor makes per unit time</p> <p>Performance Specifications: Able to determine wind speed by calculating the number of rotations the rotor makes per unit time</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Sensitive/low friction model for demonstrating the principle of wind velocity. Can rotate with human blow 2. Made of corrosion resistant Aluminum and Plastic 3. Consist of 4 cups (5.8 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

		<p>cup to facilitate counting of rotations.</p> <ol style="list-style-type: none"> 4. Minimum Dimension: 240 mm x 160 mm (H X W) 5. With No Removable Parts 6. All labels and inscriptions in English 7. Submitted undertaking 8. Brand: Schoolab
3	<p>Coefficient of Linear Expansion</p> <p>Quantity: 335</p>	<p>Functional Specifications: Used to verify coefficient of linear expansion of some metals</p> <p>Performance Specifications: Able to verify coefficient of linear expansion of some metals due to pointed edges of test rods</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. With steam jacket pipe, made of brass, 500 mm long x 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, 27in X 4.5in X 1.5in (L x W x T) 3. With dial dial gauge 0-10 mm, 0.01 mm readability 4. Rods free from sharp, pointed edges 5. With English User's Manual that includes operation guide
4	<p>Flask, Florence, glass, round bottom, 500 mL</p> <p>Quantity: 335</p>	<p>Functional Specifications: Used to contain liquids with unobstructed view of liquid inside; for activity on 'how eye focusses light rays to create an image in the retina'</p> <p>Performance Specifications: Able to contain liquids with unobstructed view of liquid inside; for activity on 'how eye focusses light rays to create an image in the retina'</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. 500 mL capacity 2. Round bottom 3. NO Graduations 4. Made of glass 5. Dimensions: 110 mm x 210 mm (bulb diameter x height)
5	<p>Laser Light</p> <p>Quantity: 14,940</p>	<p>Functional Specifications: Used to produce laser beam for diffraction activities</p> <p>Performance Specifications: Able to produce laser</p>

		<p>beam for diffraction activities</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Pen type laser, red output 2. Powered by 2 x 1.5 volts size AAA dry cells 3. With ON-OFF switch 4. Body dimensions: 13 mm diameter x 150 mm length 5. Function: Able to project clearly a laser spot to a distance of 5 meters
6	<p>Manometer, Open U-tube with Nakamura-type Water Pressure Apparatus</p> <p>Quantity: 335</p>	<p>Functional Specifications: Used to measure pressure difference of fluids</p> <p>Performance Specifications: Able to measure pressure difference of fluids</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Open U-tube glass manometer tube with a 50cm arm with funnel top on one arm and a 2.5 cm rifled tip on another arm for easy connection with silicone-rubber tubing, glass wall 1mm thickness, 5 mm inner diameter 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 1-meter silicone-rubber tubing for interconnecting U-Tube manometer and the simple water pressure apparatus
7	<p>Ticker Timer Set</p> <p>Quantity: 11,395</p>	<p>Functional Specifications: Used to measure and record short time intervals by marking "ticks" on paper tape</p> <p>Performance Specifications: Able to measure and record short time intervals by marking "ticks" on paper tape due to compatible power supply provided by bidder.</p> <p>Design Specifications:</p>

		<ol style="list-style-type: none"> Operates between 6 to 12V a.c. and produces dots on the tape using a carbon paper disc at frequency the same with the mains. Has a rugged plastic base and screw type binding posts; Supplied with: 40mm carbon paper disc (100pcs) 15mm wide ticker tape (3 rolls) c-clamp, falling mass
8	<p>Balance, Toploading, Electronic</p> <p>Quantity: 709</p>	<p>Functional Specifications: Used to measure an object's mass up to 500 g capacity accurate up to 0.01 g readability</p> <p>Performance Specifications: 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</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> Type: Digital Shape of pan: Rectangular Material of pan: Stainless steel Removable high strength stainless steel weighing platform Shape of housing: Optional Load/Capacity: 500 g Readability/Accuracy: 0.01 g Repeatability: 0.01 g Comes with 500 g span calibration mass With ISO Certification Power Supply : 220-240V/ 50Hz With large Liquid crystal display (LCD) with backlight With multiple weighing units and overload protection With automatic calibration With standard RS 232 interface Parts counting and percentage weighing Includes Operations Manual in English With power cord, AC Adapter and 4 AA batteries to be submitted during pre-delivery Brand: Schoolab, with certification
9	<p>Balance, Triple Beam with tare, 2610-gram</p> <p>Quantity: 11,395</p>	<p>Functional Specifications: To measure mass of solids, liquids and gases accurate up to 0.1 g readability</p> <p>Performance Specifications: Able to measure mass of solids and liquids accurate up to 0.1 g readability to determine mass relationship in a chemical reaction</p> <p>Design Specifications:</p>

		<ol style="list-style-type: none"> 1. Shape: Features magnetic damping, 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: 150 mm diameter 6. Material of base: Cast metal with corrosion resistant finish 7. Material of main beam: Aluminum alloy 8. With spring, loaded zero-adjust compensator 9. With self-aligning agate bearings, precision ground steel knife edges 10. With magnetic dampening to minimize oscillation and speed weighing, 11. With adjustment knob for taring 12. 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 13. Capacity: 2610grams 14. Accuracy: 0.1-gram readability 15. With three beam graduations: <ol style="list-style-type: none"> 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 16. Equipped with three separate masses: <ol style="list-style-type: none"> a) 2 pc 1,000 grams counter weights b) 1-pc 500 grams counter weight 17. With ISO Certification 18. With English User's manual that contains Operation guide and also indicates formula and procedure in determining specific gravity and taring. to be submitted during pre-delivery 19. For durability and sensitivity, parts should be able to withstand environment/solutions. 20. Enclosed in a polystyrene and packed in a sturdy box 21. Brand: Schoolab, with certification
10	Calorimeter Quantity: 335	<p>Functional Specifications: Used to measure heat effects or heat of reactions</p> <p>Performance Specifications:</p> <ol style="list-style-type: none"> a) Able to measure the heat effects or heat of reactions, the heat of neutralization of an acid and heat of fusion

		<p>in the laboratory</p> <p>b) Distinguish between exothermic and endothermic processes</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Double-walled 2. Shape: Cylindrical double wall with air insulation between two polished spun vessels 3. Material: Two polished spun aluminum vessels with the following dimensions: <ol style="list-style-type: none"> A) Outer vessel size: <ol style="list-style-type: none"> a) Height:141 mm b) Depth:102 mm c) Capacity: 1 L B) Inner vessel size: <ol style="list-style-type: none"> a) Height: 89 mm b) Depth: 77 mm c) Capacity: 200 mL 4. Accessories: <ol style="list-style-type: none"> a) With a plastic insulator ring or fiber washer for insulating and supporting one vessel within the other, protects the styrofoam 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 hermometer and the other hole for the stirrer d) Rubber stopper with one hole e) With 17 mm thick styrofoam liner /sleeve to insulate the inner vessel 5. With Instruction Manual in English that contains precise instructions on how to conduct common calorimetry experiments. 6. With User's Manual on the use, care, maintenance, trouble shooting and proper storage in English 7. With Activity Sheets/Teachers Manual in English 8. For numbers #5 to 7; technical specifications a-e must be followed: <ol style="list-style-type: none"> a) For Contents List of materials, In Table form b) for User's Manual, Instruction Sheets/ Assembly Guides, In sentences format <ol style="list-style-type: none"> i) With sentences grammatically correct and ii) With correct spelling and terminologies, punctuations and others
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		<p>c) In original print, not photocopied</p> <p>d) In colored pictures, drawings/illustrations</p> <p>e) in ten (10) mil laminated keycard that shall contain the actual colored picture of the model including the name: labeled with the required parts with details as follows</p> <ul style="list-style-type: none"> 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 <p>9. Brand: Schoolab</p>
11	<p>Flask, Volumetric, borosilicate 250 mL</p> <p>Quantity: 14,940</p>	<p>Functional Specifications: Used to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 mL</p> <p>Performance Specifications: Able to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 mL</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Class A 2. Shape: A round or pear-shaped bulb, a long thin neck topped by a snap cap and with flat bottom 3. Material of body: Borosilicate, clear, transparent and bubble-free, glass with the following dimensions: <ul style="list-style-type: none"> a) Height: 230 mm b) Outside diameter: 79 mm c) Size: 250 mL d) Tolerance: ± 0.12 mL 4. With heavy duty rim 5. Comes with snap cap <ul style="list-style-type: none"> a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap: No. 250 d) Color of snap cap: Blue with white 6. Marked "IN" 7. With ISO Certification 8. Must be free from breakage, cracks, sharp rims and other defects 9. Packaging: Roll up glassware in newspaper and

		<p>secure with a piece of masking tape and place in a bubble pouch and individually packed in a sturdy box</p> <p>10. Brand: Cordial, submitted certificate</p>
12	<p>Graduated Cylinder, borosilicate, 10 mL</p> <p>Quantity: 24,355</p>	<p>Functional Specifications: Used to measure and to deliver the volume of liquids</p> <p>Performance Specifications: Able to measure and to deliver the volume of liquids up to 10 mL capacity</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions: <ol style="list-style-type: none"> a) Outside Diameter: 14 mm b) Height: 177 mm c) Thickness range :1.3 mm d) Tolerance: ± 0.20 4. Capacity: 10 mL 5. Graduation Range: 1 to 10 mL 6. Graduation interval: 0.1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. With ISO Certification 13. Placed in bubble wrap, and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Brand: Cordial, submitted certificate
13	<p>Graduated Cylinder, borosilicate, 100mL</p> <p>Quantity: 24,355</p>	<p>Functional Specifications: Used to measure and to deliver the volume of liquids</p> <p>Performance Specifications:</p> <ol style="list-style-type: none"> a) Able to measure and to deliver the volume of liquids up to 100 mL capacity b) Can be used as a container to determine the volume of irregularly shaped solids by water displacement <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip

		<ol style="list-style-type: none"> 3. Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions: <ol style="list-style-type: none"> a) Outside Diameter: 30 mm b) Height: 255 mm c) Thickness range :1.3 mm d) Tolerance: \pm 0.60 mL 4. Capacity: 100 mL 5. Graduation range: 5 to 100 mL 6. Graduation Interval: 1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. With single graduated metric scale with plastic bumper guard 11. With glass hexagonal base (non-detachable) 12. With ISO Certification 13. Placed in bubble wrap, and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Brand: Cordial, submitted certificate
14	<p>Graduated pipette with rubber pipettor, borosilicate, 10mL</p> <p>Quantity: 335</p>	<p>Functional Specifications: Used to measure the amount of liquid being dispensed/ delivered/ transferred to another container accurate up to 10 mL capacity</p> <p>Performance Specifications: Able to measure the amount of liquid being dispensed/ delivered/ transferred to another container accurate up to 10 mL capacity</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Serological, transfer type 2. Shape: Straight tube with one constricted end 3. Material: Borosilicate, reusable, clear, transparent bubble-free glass 4. Marked "TD" - To deliver 5. Not Graduated to tip, zero at top 6. Color code for 10 mL cap: Orange 7. Top end is constricted 8. Capacity: 10 mL 9. Graduation interval: 0.1 mL 10. Tolerance: +0.06 mL 11. Graduation is in descending scale 12. Graduations, approximate volumes, capacity, and other markings are in permanent amber stain which resists aggressive washing solutions

		<p>13. With ISO Certification</p> <p>14. Accessory: With Rubber pipettor</p> <p>a) Type: Three (3) -way Safety Bulb-type Pipet Filler</p> <p>b) Material : Non-toxic natural rubber</p> <p>c) Color: Red/orange</p> <p>d) With pinch release valves that control air evacuation, liquid uptake, and liquid dispensing</p> <p>e) Fits standard size pipettes</p> <p>15. Packaging: Wrap glassware in newspaper and secure with a piece of masking tape and place in a bubble pouch, enclosed in polystyrene and packed in sturdy box</p> <p>16. Brand: Cordial, submitted certificate</p>
15	<p>Hydrometer for heavy liquids</p> <p>Quantity: 335</p>	<p>Functional Specifications: Used to measure relative density of heavy liquids based on the concept of buoyancy</p> <p>Performance Specifications: Able to measure relative density of heavy liquids based on the concept of buoyancy, like glycerine</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 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: Glass, with the following dimensions: <ol style="list-style-type: none"> a) Length: 330mm b) Tolerance: ± 0.01 4. Specific Gravity Range: 1.00 - 2.00 5. Subdivision: 0.01 6. Comes with a ballast <ol style="list-style-type: none"> a) Material of ballast: Glass b) Heavy metals (lead, mercury)- free metal ballast c) Material inside the ballast: Steel pellets and d) With a binder 7. Individually serialized 8. With ISO Certification 9. Individually packed in a protective hard plastic case 10. With User's Manual in English 11. Activity Sheets/Teacher's Manual submitted is on the use of the item (hydrometer) 12. For numbers #10 to 11; the technical specifications a-e must be followed: <ol style="list-style-type: none"> a) For Contents List of materials in User's Manual, in Table form

		<ul style="list-style-type: none"> b) for User's Manual, Instruction Sheets/ Assembly Guides, In sentences format <ul style="list-style-type: none"> i) With sentences grammatically correct and ii) With correct spelling and terminologies, punctuations and others c) In original print, not photocopied d) User's Manual: with colored pictures, drawings/illustrations e) submitted keycard <ul style="list-style-type: none"> 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 specifi part being labeled <p>13. Must be free from breakage, cracks and sharp parts</p> <p>14. Branded</p>
16	<p>Hydrometer for light liquids</p> <p>Quantity: 335</p>	<p>Performance Specifications: Able to measure the relative density of liquids lighter than water based on the concept of buoyancy</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 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: Glass, with the following dimensions: <ul style="list-style-type: none"> a) Total Length: 330 mm b) Graduated scale length: 305 min c) Subdivision: 0.005 d) Tolerance: ± 0.005 4. Specific Gravity Range: 0.70 to 1.0 5. Accuracy: ± 1 subdivision 6. Comes with a ballast <ul style="list-style-type: none"> a) With heavy metals (lead, mercury)- free metal ballast and glass b) Material inside the ballast: Steel pellets and c) With a binder 7. Individually serialized 8. With ISO Certification 9. Individually packed in a protective hard plastic case 10. With User's Manual in English 11. Activity Sheets/Teacher's Manual submitted is on the use of the item (hydrometer light) 12. For For numbers #11 to 12; the technical

		<p>specifications a-e must be followed:</p> <ul style="list-style-type: none"> a) For Contents List of materials in User's Manual, in Table form b) For User's Manual, Instruction Sheets/ Assembly Guides, In sentences format <ul style="list-style-type: none"> i) With sentences grammatically correct and ii) With correct spelling and terminologies, punctuations and others c) In original print, not photocopied d) User's Manual: with colored pictures, drawings/illustrations e) With keycard <ul style="list-style-type: none"> 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 specifi part being labeled <p>13. Must be free from breakage, cracks and sharp parts 14. Must be free from breakage, cracks, chipped and sharp parts 15. Branded</p>
17	<p>pH Meter, hand-held Quantity: 11,730</p>	<p>Functional Specifications: To measure the pH of a substance or solution indicating its acidity, being neutral, or its basicity/alkalinity in 0.1 pH readability</p> <p>Performance Specifications: Able to measure the pH of each substance/ solution in 0.1 pH readability:</p> <ul style="list-style-type: none"> a) For an acid: pH 0- pH 6.0 b) For basic/alkaline: pH 8.0 to pH 14.0. c) For neutral (distilled water) : pH 7.0 <p>Design Specifications:</p> <ul style="list-style-type: none"> 1. Type: Portable hand-held digital pen type 2. Material: Plastic with the following dimensions: <ul style="list-style-type: none"> a) Length: 7.2 in. b) Width: 1.5 in c) Height: 1.5 in 3. With retractable electrode 4. Comes with one (1) pc protective cap 5. Waterproof 6. pH range: pH 0 to pH 14 7. Accuracy: ± 0.2 pH 8. Features a bold LCD display of pH 9. With automatic temperature compensation

		<p>10. Supplied with accessories:</p> <ul style="list-style-type: none"> a) One (1) bottle pH 7.0 buffer solution Capacity of pH 7.0 buffer solution: 50 mL b) With one (1) pc calibration screwdriver c) with battery d) Packed in hard plastic carry case <p>11. With ISO Certification</p> <p>12. With User's Manual in English</p> <p>13. Submitted Student Worksheets/Teacher's Manual in English</p> <p>14. For numbers 13-14, the following technical specifications from a-e must be followed:</p> <ul style="list-style-type: none"> a) For Contents List of materials, In Table form b) For User's Manual, Teacher's Guide, StudentWorksheets, Instruction Sheets/ Assembly Guides, User's Manual in sentences format <ul style="list-style-type: none"> 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) Picture on keycard is the same model from the sample submitted <ul style="list-style-type: none"> i) Paper Size: A4 size, 80 gsm ii) Font: Times New Roman iii) Font size: 12 iv) Orientation: Portrait v) Margins on all sides with 2-point width border line vi) Line with arrow head of 1.25 point with width shall point to the specific part being labeled <p>15. Must be free from sharp edges</p> <p>16. Brand: Schoolab</p> <p>Functional Specifications: Used to measure the temperature</p> <p>Performance Specifications: Able to measure the temperature, -20° to 110°C</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Alcohol filled, partial immersion thermometer 2. Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center
18	<p>Thermometer, Laboratory type, Alcohol, -20 °C to 110 °C Quantity: 35,568</p>	

		<ol style="list-style-type: none"> 3. Material: Glass 4. Color: White 5. Non-toxic red-filled thermometer 6. Partial immersion type with immersion line indicator and ring top 7. With precision red alcohol-filled, reinforced bulbs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings; scale never washes out 10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions: 13. Range: -20°C to 110°C 14. Division: 1°C 15. Length: 300 mm 16. Accuracy: ± 1° C 17. Diameter: 6.0 mm 18. Immersion line: 76 mm 19. With ISO Certification 20. Must be free from breakage, cracks, chipped and sharp edges and other defects 21. Brand: Cordial
19	<p>Thermometer, Classroom, wall-mount</p> <p>Quantity: 1,883</p>	<p>Functional Specifications: Used to determine the prevailing air temperature inside a room in real time</p> <p>Performance Specifications: Able to determine the prevailing air temperature inside a room in real time</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Alcohol filled red color, glass tube type 2. Overall length: 760 mm 3. Tube containing liquid column: 23 inches 4. Temperature range: -40°C to +50°C 5. With Fahrenheit scale 6. Brand: Schoolab
20	<p>Thermometer, Clinical digital</p> <p>Quantity: 9,415</p>	<p>Functional Specifications: Used to determine human body temperature.</p> <p>Performance Specifications: Able to measure body temperature digitally.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Clinical Thermometer, for armpit use 2. With white body color, nice looking and easy reading 3. Temperature range: 35°C - 42°C and 94°F - 108°F

		<p>(dual scale)</p> <ol style="list-style-type: none"> 4. Accuracy: 0.1°C and 0.2°F 5. Length: 115mm 6. With plastic tube case 7. Brand: Cordial
21	<p>Universal pH Paper, pH 0-14, 100 strips/pack</p> <p>Quantity: 2,988</p>	<p>Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base</p> <p>Performance Specifications: Tested as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided, which corresponds to:</p> <ol style="list-style-type: none"> a) For an acid: pH 0-pH 6; b) For a base: pH 8-pH 14. c) For distilled water: pH 7 <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: <ol style="list-style-type: none"> a) Length: 80 mm x 6 mm 5. Number of colors in indicator test strip: In four colors to test pH values 6. Number of test strips: 100 pc strips 7. Packaging: Clear, transparent box 8. Shape of box: Square 9. With complete color chart for comparison with the color change to get the pH reading of the sample being tested 10. No sharp edges on box 11. Measures pH 0-pH 14 12. Brand: Cordial
22	<p>Balance, Double-pan, 500-gram</p> <p>Quantity: 18,745</p>	<p>Functional Specifications: Used to compare object masses.</p> <p>Performance Specifications: Able to measure mass of an object up to 1000 grams.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. 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. 2. Capacity: 2,000 grams

		<ol style="list-style-type: none"> 3. 0.1 gram 4. Weigh Beam Capacity x Readability: 10g x 0.1 g, 200g x 10g 5. NTEP Resolution: 1: 5,000 6. Platform size: Ø15.2 cm 7. Platform type: Plate (metal) 8. Dimensions (w x d x h): 35.5 cm x 24.1 cm x 17.8 cm 9. Net Weight: 2.1 kg. 10. Comes with four (4) Weights as follows: <ol style="list-style-type: none"> 10.1) 1 pc. 1,000-gram Weight 10.2) 1 pc. 500-gram Weight 10.3) 1 pc. 200-gram Weight 10.4) 1 pc. 100-gram Weight 11. Comes with an Instruction Manual in English. 12. Comes with a storage plastic case. 13. Brand: Schoolab
23	<p>Measuring Kit (Volume of Liquids)</p> <p>Quantity: 1,866</p>	<p>Functional Specifications: Used primarily to measure the volume of liquid or bulk solid</p> <p>Performance Specifications: Able to measure volume of liquid using different types of measuring tools</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Material: Plastic, translucent so that liquid inside can be seen easily 2. Kit includes the following measuring tools: <ol style="list-style-type: none"> a. Set of Measuring Jars: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> i) 1 quart = 32 oz/1000 mL ii) 1 pint = 16 oz/500 mL iii) 1 cup = 8 oz/250 mL c. Set of measuring cups: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> i) 1 Tbsp (15mL) ii) 1/2 Tbsp (7.5mL) iii) 1 tsp (5mL)

		<ul style="list-style-type: none"> iv) 1/2 tsp (2.5mL) v) 1/4 tsp (1.25mL) <ol style="list-style-type: none"> 3. Features include both customary and metric measurement showing appropriate graduations in each kind of measuring tools. 4. Permanent graduations and labels submitted sworn undertaking
24	<p>Meterstick, plastic</p> <p>Quantity: 120,560</p>	<p>Functional Specifications: Used to measure length.</p> <p>Performance Specifications: Able to measure length of objects in flat surfaces up to 1000mm in Metric and 39.37" in English standards of measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Material: Plastic; 2. Thickness: 7 mm 3. Width: 24 mm 4. Length: 1,000 mm; 5. The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions; 6. The back is scaled in inches, numbered in every inch with 1/8-inch divisions; 7. The numbers and division lines are in dark color; 8. Must be straight and flat; and free from toxic materials; 9. Edges and Surfaces should be smooth and even; 10. Comes with plastic jacket; 11. Standard abbreviation of the measurement unit/s must be followed
25	<p>Protractor, student-type</p> <p>Quantity: 241,120</p>	<p>Functional Specifications: Used to measure angles in degrees.</p> <p>Performance Specifications: Able to draw/construct and measure angles and arcs up to 180°.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Protractor, student-type, plastic, transparent, semi-circular, 180°; 2. Ø150mm (or 75mm radius), 1.78 mm thick 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 millimeters, from 0 to 150mm; 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

		<p>scratches;</p> <p>7. It must be horizontally level when laid flat on a table - no warping;</p> <p>8. Comes with a plastic case</p>
26	<p>Ruler, student-type</p> <p>Quantity: 243,800</p>	<p>Functional Specifications: Used to measure length and draw straight lines</p> <p>Performance Specifications: Able to measure length of objects in flat surfaces up to 30cm in Metric and 12" in English standards of measurement.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum); 2. Approximate Width x Length: 30 mm x 310 mm; 3. Graduations: Metric graduations on one side while English graduations on the other side: *Metric graduations are in centimeters, from 0 cm to 30 cm, with every cm subdivided by 10. *English graduations are in inches, from 0 inches to 12 inches, with every inch subdivided by 16. 4. Clear, readable black, non-groove permanent prints (will not fade and cannot be scratched off); 5. Bendable up to U-shape when held at both ends; and 6. Submitted undertaking
27	<p>Scale, Spring, Hanging type</p> <p>Quantity: 1,866</p>	<p>Functional Specifications: Used to measure weight or force by hanging objects</p> <p>Performance Specifications: Able to measure mass of an object up to 1,000 grams.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Maximum Capacity: 25 kilograms 2. Must conform with industry standard graduations for rated capacity. 3. Color: Any Color 4. Comes with an Instruction Manual in English 5. Brand: Fuji
28	<p>Scale, Weighing, analog, 10kg. capacity</p> <p>Quantity: 1,866</p>	<p>Functional Specifications: Used to measure weight and/or mass of an object</p> <p>Performance Specifications: Able to measure mass of an object up to 10 kilograms.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Weighing Scale, 22 pound/10 kg. Capacity, starting from zero (0) to 10kg. 2. Dual mode English/metric display that displays

		<p>weight in pounds and grams.</p> <ol style="list-style-type: none"> 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: Blue 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: 8.3" (210mm) wide x 9.25" (235mm) deep 11. Dial Increments: 1 oz. / 50 g.
29	<p>Scale, Weighing, Bathroom type</p> <p>Quantity: 1,866</p>	<p>Functional Specifications: Used to measure a person's weight</p> <p>Performance Specifications: Able to measure weight from 0 to 120 kg</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 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: Century Gothic or Arial) 3. Maximum Capacity: 120 kgs/264 lbs 4. With two years warranty 5. Made of metal and plastic combination with powder coating finish for metal parts 6. Will remain stable when a child step on it 7. With undertaking
30	<p>Tape Measure, 1.5 meters</p> <p>Quantity: 120,560</p>	<p>Functional Specifications: Used to quantify the size of an object or the distance between objects</p> <p>Performance Specifications: Able to measure size/distance of an object up to 1.5 meters.</p> <p>Design Specifications:</p> <ol style="list-style-type: none"> 1. Tape Measure, 15 mm width x 1.5 meter long 2. Made of flexible fiberglass fabric with metal end pieces 3. Color: White with black graduation markings 4. Graduation: in cm on one side and inches on the other side, smallest graduation in mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case