

Republic of the Philippines
Department of Education
DIVISION OF CEBU CITY
New Imus Avenue, Day-as, Cebu City
Tel. No. 254 – 1238; 254 – 0893; 255 – 25516

MINUTES OF PRE-BIDDING CONFERENCE

***(RE-BIDDING) SUPPLY AND DELIVERY OF LEARNING TOOLS AND EQUIPMENT (LTE) FOR
SCIENCE, MATHEMATICS AND TECHNICAL VOCATIONAL LIVELIHOOD UNDER SUB ARO NO.
OSEC-7-22-0445
DepEDCCD – 2023 -02
February 6, 2023***

PRESENT WERE:

BIDS AND AWARDS COMMITTEE

Dr. Lyra L. Illaga	- Chairman
Dr. Allan Pancho, Jr.	- Vice-Chairman
Mrs. Celestina N. Gohetia	- Member
Dr. Jeanne J. Egger	- Member
Atty. Vilpa P. Villabas	- Member

BIDS AND AWARDS COMMITTEE SECRETARIAT

Mrs. Marilyn E. Opena	- Chairman
Mrs. Daryll T. Ybanez	- Member
Mr. Efren Sarroca, Jr.	- Member

TECHNICAL WORKING GROUP

Mrs. Rotchell Repaso	- TWG
Mrs. Rosilin L. Argoncillo	- OIC-Supply Officer
Mr. Wasili R. Ugang	- TWG

PROSPECTIVE BIDDERS

Ann Tordedo	- Andsons (Virtual)
Neri Remedio	- Mesam Trading (Virtual)
Francis Bryan Roxas	-EROB Trading (Virtual)

The Pre-Bidding Conference Supply and Delivery of Learning tools and Equipment (LTE) for Science, Mathematics and Technical Vocational Livelihood under SUB-ARO No. OSEC-7-22-0445 held at

Zapatera Elementary School Library, Gabaldon Building, Sikatuna St., Cebu City, was called to order at 9:30 A.M. on February 6, 2023, by the BAC Vice-Chairman, Dr. Allan Pancho.

- Checking of attendance of participants (both on-site and virtual) to this conference was done by Mrs. Daryl T. Ybanez, BAC, Secretariat-Member. She reported to the Chairman that the BAC members are in quorum.
- The BAC Vice Chairman Dr. Allan S. Pancho facilitated the conduct of the pre-bidding conference of this project.
- The Approved Budget for the Contract (ABC) for this project is **One Million One Hundred Ninety One Thousand Nine Hundred Fifty Eight Pesos and Forty Five Centavos (1,191,958.45)**. Location of the project is Cebu City Division with the Head of Procuring Entity (HOPE), **Dr. Bernadette A. Susvilla**
- The Procurement timeline is as follows:

Date/Time	Activity	Venue
January 27, 2023 – February 20, 2023	Advertisement/Posting of Invitation to Bid (ITB)	
February 6, 2023 (9:00 a.m.)	Pre-Bid Conference	ZapateraElementay School Library
February 20, 2023 (9:00 a.m.)	Deadline for Submission of Bids	ZapateraElementay School Library
February 20, 2023 (9:00 a.m.)	Opening/Evaluation of Bids	ZapateraElementay School Library
as stated in Section VI. Schedule of Requirements)	Delivery of Goods	DepEd Cebu CityDivision, New Imus, Day-as, Cebu City

Dr. Allan S. Pancho Jr. presented and comprehensively discussed the content / details of the Bidding documents to the participants both onsite and online:

- ✓ Invitation to Bid (by paragraph)
- ✓ Cost of Bidding Documents- Php 500/lot
- ✓ Correction has been made upon the recommendation by BAC Vice Chairman Allan Pancho Jr.
- ✓ A complete set of Bidding Documents may be acquired by interested Bidders from January 27, 2023 – February 20, 2023, from Mondays to Fridays from the given address and website provided in the Invitation to Bid and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB.
- ✓ Bid Submission
 - Two-envelope system:
 - 1st Envelope – Eligibility Requirements and Technical Component
 - 2nd Envelope – Financial Component

These documents are to be submitted to the BAC on the date, time, and place specified in the IT.

Bids submitted after the deadline is no longer accepted.
- ✓ Section VI. Schedule of Requirements

Section VI. Schedule of Requirements (Re-Bidding) Supply and Delivery of Science Learning Tools and Equipment

Lot 1

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

A. Junior High School

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Flask, Volumetric, borosilicate 250 ml Functional Specifications: Used to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 ml. Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 ml. Design Specifications: 1. Type: Class A 2. Shape : A round or pear-shaped bulb, a long thin neck topped by a snap cap and with flat bottom 3. Material of body: Borosilicate, clear, transparent and bubble-free glass with the following dimensions: a) Height: 225 mm b) Outside diameter : 78 mm (approx.) c) Size: 250 ml d) Tolerance: ± 0.12 ml 4. With heavy duty rim 5. Comes with snap cap a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap : No. 250 d) Color of snap cap: Blue 6. Must meet ASTM E- 694 for volumetric ware, ASTM E-542 for calibration of volumetric ware and ASTM E-288 for volumetric flasks. 7. Calibrated "to contain" (marked "TC" or "IN") 8. Manufacturer should be accredited by NIST standards or its equivalent to the country of origin to certify that their items are calibrated. 9. Must be free from breakage, cracks, sharp rims and other defects. 10. Packaging : Roll up glassware in newspaper and secure with a piece of masking tape and place in a bubble pouch and individually packed in a sturdy box 11. Comes with a brand, with five (5) years existence in the glassware industry	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Graduated Cylinder, borosilicate, 10 ml	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 ml capacity Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions: a) Outside Diameter: 13-14 mm b) Height: 177-178 mm c) Thickness range: 1.3-1.4 mm d) Tolerance: ± 0.20 4. Capacity: 10 ml 5. Graduation Range: 1 to 10 ml 6. Graduation interval: 0.1 ml 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glassware industry				
3	Graduated Cylinder, borosilicate, 100 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: a) Must be able to measure and to deliver the volume of liquids up to 100 ml capacity b) Used as a container to determine the volume of irregularly shaped solids by water displacement Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions: a) Outside Diameter: 29-31 mm b) Height: 254-256 mm c) Thickness range: 1.3-1.4 mm d) Tolerance: ± 0.40 ml 4. Capacity: 100 ml 5. Graduation range: 5 to 100 ml 6. Graduation interval: 1 ml 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. With single graduated metric scale with plastic bumper guard 11. With glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glass industry	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	pH Meter, hand-held 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 vii) Must be free from sharp edges viii) Must have a brand	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
5	Thermometer, Laboratory	21pcs	21pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature, -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape: A small sealed tube made of glass that has a small hollow bulb, filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center 3. Material: Glass 4. Color: White 5. Non-toxic red-filled thermometer 6. Partial immersion type with immersion line indicator and ring top 7. With precision red alcohol-filled, reinforced bulbs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings; scale never washes out 10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions: 13. Range: -20°C to 110°C 14. Division: 1°C 15. Length: 300 mm (minimum) 16. Accuracy: $\pm 1^\circ \text{C}$ 17. Diameter: 5.8 to 6.2 mm 18. Immersion line: 76 mm 19. Manufacturer of the country of origin should issue certificate of calibration for every item. 20. Must be free from breakage, cracks, chipped and sharp edges and other defects 21. Comes with a brand				
6	Universal pH Paper, H 0-14, 100 strips/pack Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base Performance Specifications: Must be used as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided which corresponds to: a) For an acid: pH 0-pH 6; b) For a base: pH 8-pH 14; c) For distilled water: pH 7 Design Specifications: 1. Type: Test strips 2. Shape: Rectangular 3. Material: Cellulose/Paper based 4. Dimension of pH strip: a) Length: 49 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. Comes with a brand	10packs	10packs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
7	Beaker, borosilicate, 1000 ml Functional Specifications: Used to serve as container for mixing and for heating liquids. Performance Specifications: Must be able to serve as container for mixing and for heating liquids. Design Specifications: 1. Griffin type, borosilicate, transparent, bubble-free glass 2. Shape: a cylindrical container with flat bottom 3. Thickness range: 1.5 mm to 2.0 mm 4. Permanent white graduations, with white enamel marking spot 5. Features an easy-pour spout 6. Capacity: 1000 mL; $\pm 10\%$ enameled onto the glass 7. Single graduated metric scale 8. Graduation starts at 200 mL in 100 mL increments 9. Height range: 140 mm to 160 mm 10. Outside diameter: 100 mm to 110 mm 11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

8	Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: 1. Reusable, borosilicate, circular glass with beaded edge; 2. Bubble free, plan surface 3. Outside Diameter of Cover: 100 mm ± 2 mm; 4. Outside Diameter of Dish: 92 mm ± 2 mm; 5. Overall height with cover (as assembled): 20 mm ± 2 mm; 6. Glass thickness range: 2 mm to 2.2 mm; 7. There must be no cracks and sharp edges 8. Safely packed in a compartmentalized box	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
9	Beaker, borosilicate, 250 ml Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service. Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service. Design Specifications: 1. Type: Berzelius form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: a) Outside Diameter: 68 mm to 70 mm; b) Height: 90 mm to 92 mm; c) Thickness: 1.5 mm to 2.0 mm; 4. With permanent white enamel graduations of approximate volumes, inscriptions and markings etched onto the glass. 5. With large white marking spot 6. Features an easy pour spout 7. With double graduated metric scale 8. Capacity: 250 ml, embossed onto the glass 9. With marking graduation to 10 ml, or 25 ml, in 25 ml increments 10. With marking graduation to empty, starts at 0 ml, in 25 ml increments 11. Graduation interval: 25 ml 12. Graduation range: 25 ml to 250 ml 13. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 14. Can withstand heating up to 200-230°C for normal, standard use service 15. Must be free from breakage, cracks, chipped rim and other defects 16. Comes with a brand with five (5) years existence in the glassware industry	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
10	Beaker, borosilicate, 500 ml Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Performance Specifications: a) Must be able to contain/hold /prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Design Specifications: 1. Type: Berzelius, tall form 2. Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear, bubble free glass, Berzelius, tall form with the following dimensions: a) Outside Diameter Range: 75 mm- 80 mm b) Height range: 136 mm - 140 mm c) Thickness: 1.5 mm to 2.0 mm 4. Capacity: 500 ml: ± 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 7. With easy pour spout 8. Double graduated metric scale 9. Marked to fill: Graduation starts at 50 ml, in 50 ml increments 10. Marked to empty: Graduation starts at 0 ml, in 50 ml increments 11. Can withstand heating up to 200-230°C for normal, standard use service 12. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 13. Must be free from breakage, cracks, chipped rim and other defects 14. Comes with a brand with five (5) years existence in the glassware industry	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
11	Burner, Alcohol, glass, 150 ml Capacity	19pcs	19pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to produce hot, consistent open flame for slow/gentle heating of glasswares and substances. Performance Specifications: Must be able to produce hot, consistent open flame a) for slow/gentle heating of glasswares and substances b) can withstand prolonged heating without breaking c) visually determine the identity of an unknown metal or metalloid ion based on the characteristic color the chemical/salt emits on the Bunsen flame to investigate reactions of ions and apply these in qualitative analysis through an activity, on Flame Test d) bend a glass tubing e) heat to sterilize, to accelerate, and to trigger chemical reactions. f) for combustion purposes and techniques. Design Specifications: 1. Shape : A globe-shaped body and flat base (bottom) with threaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free glass with the following dimensions: a) Outside Diameter : 80 mm to 85 mm b) Total height: 100 mm to 105 mm 3. Capacity : 150 ml 4. With wick holder permanently attached to a threaded base a) Material of wick holder and cover/caps : Nickel-plated brass b) Type of wick holder : Threaded 5. With one (1) pc cotton fiber/strand braided wick perfectly fitted to the wick tube a) Material of wick : Cotton fiber/strand b) Type of wick : Braided c) Length: 7 inches (178 mm) min. d) Diameter: 3/16 inches (5-6 mm) 6. With snuff/wrap-on cover/cap 7. With ten (10) pc replacement braided cotton fiber/strand wicks 8. Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box 9. Must be free from breakage, cracks, chipped rims and other defects 10. Comes with a brand				
12	Mortar and Pestle, porcelain, 150 ml Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle. Performance Specifications: Must be able to pulverize/mash/grind and mix materials in a mortar using a pestle to demonstrate how particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased. Design Specifications: A. Mortar 1. Shape of mortar : Bowl shape, with wide mouth, and with deeply molded, smooth rounded bottom. 2. Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter : 130 mm ± 1 mm b) Depth : 65 mm c) Flat bottom : 82 mm 3. Capacity: 150 ml 4. With pouring lip 5. With unglazed grinding surface (interior) and uniformly glazed exterior B. Pestle 6. Shape of pestle: Cylindrical with bulbous bottom with the following dimensions: a) Length range: 133-135 mm and b) Diameter range : 28 - 30 mm dia at its widest point. 7. Material of pestle: A heavy bat-shaped porcelain 8. Uniformly glazed on its handle and rough on opposite end 9. The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box 10. Must be free from breakage, cracks, chipped parts and other defects 11. Comes with a brand	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
13	Rubber Stopper # 6 for Erlenmeyer Flask narrow-mouth 250 ml, 1 hole	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Performance Specifications: Must be able to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Design Specifications: 1. Shape: Cylindrical with a tapered bottom end 2. Material: Premium grade SBR black rubber compound with the following dimensions: a) Height: 25 mm b) Top Ø: 32 mm c) Bottom Ø: 26 mm d) Hole Ø: 5 mm 3. Number of holes: With one (1) hole 4. Dimension tolerance on height, top and bottom diameter: ± 0.5 mm 5. Hardness: 40 $\pm$ 5 Duro 6. Packed in resealable plastic bag 7. Comes with a brand				
	Test tube brush Functional Specifications: Used to clean test tubes and other small sized glassware Performance Specifications: Must be 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. Design Specifications: 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: a) Diameter: 17-19 mm b) Length: 96-98 mm c) Over-all length: 220-229 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle: Common loop twisted wire 5. With circular loop for hanging 6. Packed in a resealable plastic bag 7. Must be free from sharp metal parts 8. Comes with a brand	14pcs	14pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
14					
	Test Tube, borosilicate, 16 mm x 150 mm Ion	50pcs	50pcs	30 calendar days from the date of receipt of Notice to Proceed	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
15					

	Functional Specifications: Used to contain/hold a small chemical reaction, to mix small quantities of solids and liquids, and to heat small quantities of substances. Performance Specifications: Must be able to contain/hold a small chemical reaction and mix solids and liquids; heats small quantity of substances up to more than 100°C over a Bunsen burner's flame. Design Specifications: 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: a) Diameter: 16 mm diameter b) Thickness: 1.3 - 1.4 mm c) Length: 150 mm long 3. Capacity: 20 ml. 4. With heavy uniform wall thickness, excellent heat resistance. 5. Test tubes must be reusable [not disposable]. 6. With large, white enamel marking spot. 7. With permanent graduation of approx. volume and inscriptions in high-contrast white enamel. 8. Can withstand heating up to 150°C for normal, standard use service. 9. Comes with a certification from the manufacturer that the test tube is reusable not disposable. 10. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box. 11. Must be free from breakage, cracks, chipped rims, and other defects. 12. Comes with a brand with five (5) years of existence in the glassware industry.				
16	Vial, screw-neck, 50 ml with screw-t Functional Specifications: Used to hold/contain/store/mix small quantities of samples/ solutions/ substances up to 50 ml. Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 ml. Design Specifications: 1. Type: Wide mouth. 2. Shape : Bottle-like shape with a threaded neck, screw cap, polypropylene closure and with a flat bottom. 3. Material : Borosilicate, clear, transparent, and bubble-free glass with the following dimensions: a) Outside Diameter : 25 mm to 30 mm b) Length: 100 mm to 108 mm 4. Capacity: 50 ml. With screw-type plastic cap. 5. Shape of neck : Cylindrical, round. 6. Neck finish: Continuous thread. 7. Cap Color: Black/White. 8. Cap Attached: No. 9. Cap Material : Polypropylene (plastic). 10. Closure style : Solid top, screw thread cap. 11. Neck size: 24-400. 12. Cap liner: Foam lined. 13. Packed individually in a compartmentalized box. 14. Must be free from breakage, cracks, chipped rims, and other defects. 15. Comes with a brand.	25pcs	25pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
17	Watch Glass, Ø 90 mm Functional Specifications: Used to: a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contains liquids and solids prior to heating. Performance Specifications: Must be able to: a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contains liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave. 2. Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range : 1.5 mm to 2 mm 3. Fine-polished rims/edge. 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box. 5. Must be free from breakage, cracks, chipped edges and other defects. 6. Comes with a brand.	21pcs	21pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

18	Lens Paper, 50's/pack	21packs	21packs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
19	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905 Functional Specifications: Used to filter/separate mixtures solids from liquids Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids) Design Specifications: 1. Type: Technical use 2. Shape of filter paper : Square 3. Material: Cellulose with the following dimensions: a) Length: 580 mm b) Width : 580 mm 4. Color: White to cream 5. Grade: 0905 6. Surface: Creped 7. Initial Filtration Speed: 20 sec [± 1 sec]/10 mL; Flow rate: High 8. Wet strengthened 9. Packed in brown filter paper tube 10. Comes with a brand	16sheets	16sheets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
20	Nichrome wire. 0.4, 100 ft (1 spool per package = 1.1 oz minimum with spool) Functional Specifications: Used as a wire loop and heating element on which a metal salt or solid ionic compound is made to adhere into it and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound Performance Specifications: Must be used as a wire loop on which a metal salt or solid ionic compound is made to adhere to, and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound in a laboratory activity, the flame test Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome-Alloy of nickel and chromium, N80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned, Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch 10. Comes with a brand	5spool	5spool	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
21	Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth 5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic 7. Packed in a resealable pouch 8. Comes with a brand	21pcs	21pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

22	Globe, Terrestrial Functional Specifications: Used to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy. Performance Specifications: Should be able to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy. Design Specifications: 1. Primarily used as a reference to geographical & political information. 2. Shows the following: (a) All continents, countries with their capitals, and important cities and places. (b) Updated with newly established countries, or re-named countries and cities. (c) Illustrates the flow and direction of ocean currents. (d) Lines of Latitudes (0° to 90°), graduated both in Northern and Southern Latitudes and Longitudes (0° to 180°), graduated both in Eastern and Western Longitudes. (e) International Date Line, Arctic Circle, Tropic of Cancer, Tropic of Capricorn and Antarctic Circle. (f) Lines of Equator and Prime Meridian. (g) Names of mountain, mountain ranges, volcano, ocean floors, gulfs, seas and lakes. (h) Names of continents, seas and country boundaries should be according to international standard. (i) Philippine territory emphasizing the "West Philippine Sea" as one of the Philippine territorial sea boundaries. (j) The Nine Dashed Line should not appear. 3. The globe which is made of plastic is mounted on a plastic meridian ring (C-shape) with movable magnifier. 4. The base stand is made of hard/tough plastic. 5. Must be branded.	10unit	10unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
23	Musical Instrument (Miniature Guitar) Functional Specifications: Used to demonstrate musical application of standing waves. Performance Specifications: Should be able to demonstrate musical application of standing waves. Design Specifications: 1. Mini acoustic type, half-size guitar, any color, surface finish: varnish. 2. Made of good quality wood without sign of warp. 3. Minimum dimensions: Overall length: 33 inches, Width: 12 inches, Depth: 3 1/2 inches. 4. Standard guitar steel strings (Nos. 1-6), 18 fret minimum.	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
24	Set of Tools: Ball Peen Hammer, handle length is 11-inch, 350g approx. weight, 1 pc/set Functional Specifications: Used to peen dent surfaces in metals. Performance Specifications: Should be able to peen dent surfaces in metals. Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc./set. Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set Functional Specifications: Used to bend tiny solid wire connectors. Performance Specifications: Should be able to bend tiny solid wire connectors. Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set.	13sets each	13sets each	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

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

	components Performance Specifications: Used to hold and pick tiny electronics components Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2 inches long, 1 pair/set				
25	Glass Cover Slips, 100's/box Functional Specifications: Used to secure the wet mount sample specimen. Performance Specifications: Must be able to secure the wet mounted sample specimen. Design Specifications: 1. Pre-cleaned cover glasses and not sticking from each other 2. Material: Transparent glass 3. Quantity: 100's/small plastic box 4. Dimension: 22 mm x 22 mm square 5. Thickness: 0.13 mm - 0.17 mm 6. There shall be no chipped edges 7. Safely packed in a plastic box	10 boxes	10 boxes	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
26	Glass Slides, 72's/box Functional Specifications: Used to contain the specimen for examination under the microscope. Performance Specifications: Must be able to accommodate the specimen subject for examination under the microscope. Design Specifications: 1. Clear, flat glass, free from moisture, dirt, and film; 2. No color, no frost and no chipped edges 3. Dimension: 75 mm (±1 mm) x 25 mm (±1 mm); 4. Thickness: 1.1 mm (±0.1 mm) 5. No sharp edges and pointed corners 6. Packed in a box containing 72 slides with thin paper sheets in between them	20 boxes	20 boxes	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
27	Compass, Magnetic Functional Specifications: Used to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field Performance Specifications: Should be able to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field Design Specifications: 1. Outside Diameter: 48 mm to 52 mm 2. Needle mounted in an Aluminum case with clear, scratch-free plastic or glass face 3. Graduated dial marked in cardinal points (North, South, West, East, Northwest, Northeast, Southwest, and Southeast). 4. Must be branded	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
28	Pipette, Beral, 1 ml Functional Specifications: Used to transfer/dispense liquid samples. Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL. Design Specifications: 1. One-piece pipette, made from flexible soft non-toxic plastic that has a protuberance on top that serves as liquid retention chamber 2. Capacity: 1 mL in 0.25 mL grad interval 3. No rubber head 4. Total length range: 140 mm - 150 mm 5. With molded graduations	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

29	Gloves, Hand, super nitrile Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes Performance Specifications: Must be able to protect hands against mechanical risks, microorganisms, chemical burns and splashes Design Specifications: 1. Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped) 2. Material: Super nitrile, reusable with the following dimensions: a) length of gloves : 13 inches (330.2 mm) min b) thickness: 0.38 -0.52 mm (min) 3. Color : Green 4. Size: 8 5. Interior finish : Flocked interior (acid/solvent resistant) 6. Exterior finish : Smooth 7. Cuff type: Rolled beaded 8. Latex free to suit those with latex allergies 9. Non-slip wear resistant high elasticity , waterproof 10. Puncture resistant 11. With detailed imprints on each glove, on the following: a) the glove size/s b) the name of manufacturer c) nitrile, flocked d) individual manufacturing lot e) with pictograms for certification category requirements CE 0334 (EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 12. Individually packed in resealable plastic bag 13. Comes with a brand	20pcs	20pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
30	Flashlight with incandescent bulb Functional Specifications: Used to provide illumination on the surface of a globe model Performance Specifications: Should be able to provide illumination on the surface of a globe model Design Specifications: 1. Powered by two (2) 1.5 volts size D dry cells; Capacity: 3 volts 2. 7" long minimum 3. side switch 5. 35 feet beam distance 6. Body: high impact resin construction 7. Must be branded	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
31	Lamp, Desk, Heavy Base Functional Specifications: Used to provide heat and illumination on specimen under study Performance Specifications: Should be able to provide heat and illumination on specimen under study Design Specifications: 1. Heavy base, able to stand by itself 2. 35 inches length minimum 3. easily adjustable to direct the light wherever you need it the most 4. With On and Off Switch 5. Power source: AC 220 volts line; included with 60-100 Watts Yellow light bulb 6. Capacity: 100 watts 7. Preferable ungrounded plug (if the plug is grounded, an adapter should include in the item.) 8. With English User's Manual that includes Operation Guide 9. Should be branded	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

B. Senior High School

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Flask, Volumetric, borosilicate 250 ml Functional Specifications: Used to measure/prepare/contain precise volume of standard solutions at a certain temperature; precise dilution of solutions up to 250 ml. Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solutions at certain temperature and precise dilution of solutions up to 250 ml. Design Specifications: 1. Type: Class A 2. Shape: A round or pear-shaped bulb, a long thin neck topped snap cap and with flat bottom 3. Material of body: Borosilicate, clear, transparent and bubble-free glass with the following dimensions: a) Height: 225 mm b) Outside diameter: 78 mm (approx.) c) Size: 250 ml d) Tolerance: ± 0.12 ml 4. With heavy duty rim 5. Comes with snap cap a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap: No. 250 d) Color of snap cap: Blue 6. Must meet ASTM E-694 for volumetric ware, ASTM E-54 for calibration of volumetric ware and ASTM E-288 for volumetric flask 7. Calibrated "to contain" (marked "TC" or "IN") 8. Manufacturer should be accredited by NIST standards or equivalent to the country of origin to certify that their items are calibrated. 9. Must be free from breakage, cracks, sharp rims and other defects 10. Packaging: Roll up glassware in newspaper and secure with piece of masking tape and place in a bubble pouch and individually packed in a sturdy box 11. Comes with a brand, with five (5) years existence in the glassware industry	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Graduated Cylinder, borosilicate, 10 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 ml capacity Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions: a) Outside Diameter: 13-14 mm b) Height: 177-178 mm c) Thickness range: 1.3-1.4 mm d) Tolerance: ± 0.20 4. Capacity: 10 ml 5. Graduation Range: 1 to 10 ml 6. Graduation interval: 0.1 ml 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item 13. Packed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glassware industry	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

3	Graduated Cylinder, borosilicate, 100 ml Functional Specifications: Used to measure and to deliver the volume of liquids. Performance Specifications: - Must be able to measure and to deliver the volume of liquids up to 100 ml capacity - Used as a container to determine the volume of irregularly shaped solids by water displacement Design Specifications: - Type: Class A - Shape: Narrow cylindrical container with a small turned-out lip - Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions: - Outside Diameter: 29-31 mm - Height: 254-256 mm - Thickness range: 1.3-1.4 mm - Tolerance: ± 0.60 ml - Capacity: 100 ml - Graduation range: 5 to 100 ml - Graduation interval: 1 ml - Calibrated to deliver (TD) - All markings are in permanent white enamel - With pouring spout - With single graduated metric scale with plastic bumper guard - With glass hexagonal base (non-detachable) - Manufacturer of the country of origin should issue certificate of calibration for every item - Placed in bubble wrap and packed individually in a compartmentalized box - Must be free from breakage, cracks and sharp rim - Comes with a brand, with five (5) years warranty in the glass industry	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	Thermometer, Laboratory type, Alcohol, -200C to 1100C Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature: -20° to 110°C Design Specifications: - Type: Alcohol filled, partial immersion thermometer - Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center - Material: Glass - Color: White - Non-toxic red filled thermometer - Partial immersion type with immersion line indicator and ring top - With precision red alcohol-filled, reinforced bulb, and with expansion chamber - With white back with non-rot sleeve - With clear and permanent markings; scale never washes out - Provided with non-rot plastic case - With continuous alcohol column - Dimensions: - Range: -20°C to 110°C - Division: 1°C - Length: 300 mm (minimum) - Accuracy: $\pm 0.1^\circ\text{C}$ - Diameter: 5.8 to 6.2 mm - Immersion line: 76 mm - Manufacturer of the country of origin should issue certificate of calibration for every item - Must be free from breakage, cracks, chipped and sharp edges and other defects - Comes with a brand	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
5	Universal H Paper, pH 0-14, 100 strips/pack Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base Performance Specifications: Must be used as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided, which corresponds to: - For an acid: pH 0-pH 6 - For a base: pH 8-pH 14 - For distilled water: pH 7 Design Specifications: - Type: Test strips - Shape: Rectangle - Material: Cellulose/Paper based - Dimension of pH strip: - Length: 68 mm x 6 mm - Number of colors in indicator test strip: six colors to test pH values - Number of test strips: 100 pc strips - Packaging: Clear, transparent box - Shape of box: Square - With complete color chart for comparison with the color change to get the pH reading of the sample being tested - No sharp edges on box - Measures pH 0-pH 14 - Comes with a brand	10packs	10packs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

6	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905 Functional Specifications: Used to filter/separate mixtures solids from liquids Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids) Design Specifications: 1. Type: Technical use 2. Shape of filter paper : Square 3. Material: Cellulose with the following dimensions: a) Length: 580 mm b) Width : 580 mm 4. Color: White to cream 5. Grade: 0905 6. Surface: Creped 7 Initial Filtration Speed: 20 sec (± 1 sec)/10 ml; Flow rate: High 8. Wet strengthened 9. Packed in brown filter paper tube 10. Comes with a brand	10 sheets	10 sheets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
7	Triangular File, fine, 6-inch long, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth 5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic 7. Packed in a resealable pouch 8. Comes with a brand	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
8	Beaker, borosilicate, 250 ml Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin/low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: a) Outside Diameter: 68 mm to 70mm b) Height: 90 mm to 92 mm c) Thickness: 1.5 mm to 2.0 mm 4. With permanent white enamel graduations of approximate volumes, inscriptions and markings etimated onto the glass 5. With large white marking spot 6. Features an easy-pour spout 7. "With double graduated metric scale" 8. Capacity: 250 mL ±5% etched onto the glass" 9. With marking graduation to fill starts at 25 ml, in 25ml increments 10. With marking graduation to empty: starts at 0 ml, in 25 ml increments 11 Graduation interval: 25 ml 12. Graduation range: 25 ml; to 200 ml 13. Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box 14. Can withstand heating up to 200-230°C for normal, standard use service 15. Must be free from breakage, cracks, chipped rims and other defects 16. Comes with a brand of five (5) years existence in the glassware industry	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

9	Beaker, borosilicate, 500 ml Functional Specifications: a) Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Performance Specifications: a) Must be able to contain/hold/prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath. b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Design Specifications: 1. Type: Borosil, tall form 2. Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear, bubble-free glass - Borosil, tall form with the following dimensions: a) Outside Diameter Range: 75 mm- 80 mm b) Height range: 135 mm - 140 mm c) Thickness: 1.5 mm to 2.0 mm 4. Capacity: 500 ml; ± 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 7. With easy pour spout 8. Double graduated metric scale 9. Marked to fill: Graduation starts at 50 ml, in 50 ml increments 10. Marked to empty: Graduation starts at 0 ml, in 50 ml increments 11. Can withstand heating up to 200-230°C for normal, standard use service 12. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 13. Must be free from breakage, cracks, chipped rims and other defects 14. Comes with a brand with five (5) years existence in the glass wares industry	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
10	Burner, Alcohol, lass, 150 ml Capacity Functional Specifications: Used to produce hot, consistent open flame for slow/gentle heating of glasswares and substances Performance Specifications: a) Must be able to produce hot, consistent open flame b) for slow/gentle heating of glasswares and substances c) can withstand prolonged heating without breaching d) visually determine the identity of an unknown metal or metalloids ion based on the characteristic color the chemicals/salt emits on the Bunsen flame to investigate reactions of ions and apply these in qualitative analysis through an activity, or flame test e) heat a glass tubing f) heat to desiccate, to accelerate, and to trigger chemical reactions. g) for combustion purposes and techniques Design Specifications: 1. Shape: A globe-shaped body and flat base (bottom) with threaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free glass with the following dimensions: a) Outside Diameter: 80 mm to 85 mm b) Total height: 100 mm to 105 mm 3. Capacity: 150 ml 4. With wick holder permanently attached to a threaded base a) Material of wick holder and cover/cap: Nickel-plated brass b) Type of wick holder: threaded 5. With one (1) pc cotton fiber/strand braided wick perfectly fitted to the wick tube a) Material of wick: Cotton fiber/strand b) Type of wick: Braided c) Length: 7 inches (178 mm) min d) Diameter: 3/16 inches (5.6 mm) 6. With snuff/snap-on cover/cap 7. With ten (10) pc replacement braided cotton fiber/strand wicks 8. Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box 9. Must be free from breakage, cracks, chipped rims and other defects 10. Comes with a brand	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
11	Dish, Evaporating, 75 ml	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leave residual chemical solute Performance Specifications: Must be able to contain/hold substances and to demonstrate evaporation, as one of the techniques in separating mixtures, by heating chemical solutions gradually, driving off the water to leave residual chemical solute Design Specifications: 1. Shape: Deep form, broad, and wider at the top than bottom and with round bottom with pouring lip/spout 2. Material: Porcelain, with the following dimensions: a) Diameter: 80-82 mm b) Height/depth: 30-34 mm high 3. Capacity: 75 ml. 4. With pouring lip/spout 5. Can withstand temperatures up to 1150°C 6. Uniformly glazed inside (except for rim) and partly uniformly glazed outside except bottom surface. 7. Must be free from breakage, cracks, chipped rims and other defects 8. Wrapped in paper, and packed in a sturdy box 9. Comes with a brand				
12	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 ml Functional Specifications: Used to: a) contain/hold a small chemical reaction, b) mix solids and liquids, c) heat substances over a Bunsen/alcohol burner's flame up to over 150 °C or d) collect them in a titration/distillation experiment Performance Specifications: Must be able to: a) contain/hold a small chemical reaction, b) mix solids and liquids during chemical reaction, c) heat substances up to 150°C over a Bunsen burner's flame up to 250 mL, or d) serve as a reaction vessel in a titration experiment, and to collect distillate during distillation Design Specifications: 1. Shape: A conical body, a cylindrical short neck, narrow mouth, with sloping sides, and with a flat bottom 2. Material: Clear and transparent bubble-free, borosilicate glass with the following dimensions: a) Outside diameter range: 80 to 82 mm b) Height range: 130-132 mm c) Thickness range: 1.5 to 2.0 mm d) Neck inside diameter range: 28 to 30 mm e) Tolerance: ± 5% and other inscriptions enameled onto the glass 3. Capacity: 250 mL capacity 4. Graduation range: 50 mL, 200 mL 5. Graduation interval: 25 mL 6. Graduation starts at: 50 mL in 25 mL increments 7. With uniform wall thickness 8. With heavy duty beaded rim 9. With permanent durable white enamel graduations with large white enamel marking spot 10. Can withstand heating up to 150°C for normal standard use service 11. Wrapped in paper and individually packed in a compartmentalized box 12. Must be free from breakage, cracks, chipped rims and other defects 13. Comes with a brand with five (5) years of existence in the glass market (attach photo)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
13	Mortar and Pestle, porcelain, 150 ml	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle. Performance Specifications: Must be able to pulverize/mash/grind and mixes materials in a mortar using a pestle to demonstrate how particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased. Design Specifications: 1. Mortar 1. Shape of mortar: Bowl shape, with wide mouth, and with deeply molded, smooth rounded bottom. 2. Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter: 130 mm $\pm$ 1 mm b) Depth: 65 mm c) Flat bottom: 87 mm 3. Capacity: 150 ml 4. With pouring lip 5. With unglazed grinding surface (interior) and uniformly glazed exterior 6. Pestle 6. Shape of pestle: Cylindrical with bulbous bottom with the following dimensions: a) Length range: 133-135 mm and b) Diameter range: 28 - 30 mm dia of its widest point. 7. Material of pestle: A heavy ball-shaped porcelain 8. Uniformly glazed on its handle and rough on opposite end 9. The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box 10. Must be free from breakage, cracks, chipped parts and other defects 11. Comes with a brand				
14	Rubber Stopper #6 for Erlenmeyer Flask narrow-mouth 250 ml, 2 holes Functional Specifications: Used to seal the openings of narrow-mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Performance Specifications: Must be able to seal the openings of narrow-mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Design Specifications: 1. Shape: Cylindrical with a tapered bottom end 2. Material: Premium grade 1BR black rubber compound with the following dimensions: a) Height: 25 mm b) Top $\varnothing$: 32 mm c) Bottom $\varnothing$: 26 mm d) Hole $\varnothing$: 5 mm 3. Number of holes: With one (1) hole 4. Dimension tolerance on height, top and bottom diameter: $\pm$ 0.5 mm 5. Hardness: 40 $\pm$ 5 Duro 6. Packed in resealable plastic bag 7. Comes with a brand	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
15	Test tube brush Functional Specifications: Used to clean test tubes and other small-sized glasswares Performance Specifications: Must be able to clean test tubes and other small-sized glasswares with densely filled radial tip and head brush to make complete contact with walls, corners and bottom. Design Specifications: 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: a) Diameter: 17-19 mm b) Length: 96-98 mm c) Over-all length: 220-229 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle: Common loop twisted wire 5. With circular loop for hanging 6. Packed in a resealable plastic bag 7. Must be free from sharp metal parts 8. Comes with a brand	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
16	Test Tube, borosilicate, 16 mm x 150 mm L x	40 mm	40 mm	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to contain/hold a small chemical reaction, to mix small quantities of solids and liquids, and to heat small quantities of substances. Performance Specifications: Must be able to contain/hold a small chemical reaction and - mixes solids and liquids, heats small quantity of substances up to more than 100°C over a Bunsen burner's flame. Design Specifications: 1. Shape - Fingerlike length of glass tubing, open at the top, usually with a rounded tip 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: a) Diameter: 16 mm diameter b) Thickness: 1.3 - 1.4 mm c) Length: 150 mm long 3. Capacity: 20 ml. 4. With heavy uniform wall thickness, excellent heat resistance. 5. Test tubes must be reusable (not disposable). 6. With large, white enamel marking spot. 7. With permanent graduation of approx. volume and inscriptions in high contrast white enamel. 8. Can withstand heating up to 150°C for normal, standard use service. 9. Comes with a certification from the manufacturer that the test tube is reusable not disposable. 10. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box. 11. Must be free from breakage, cracks, chipped rims and other defects. 12. Comes with a brand with five (5) years of existence in the glass wares industry.			to Proceed/Purchase Order	Brgy. Day-as, Cebu City
17	Vial, screw-neck, 50 ml with screw-type plastic cap) Functional Specifications: Used to hold/contain/store/mix small quantities of samples/ solutions/ substances up to 50 ml. Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 ml. Design Specifications: 1. Type: Wide mouth 2. Shape - Bottle-like shape with a threaded neck, screw cap, polypropylene closure and with a flat bottom 3. Material - Borosilicate, clear, transparent, and bubble-free glass with the following dimensions: a) Outside Diameter - 25 mm to 30 mm b) Length: 100 mm to 108 mm 4. Capacity: 50 ml With screw-type plastic cap 5. Shape of neck: Cylindrical, round 6. Neck finish: Continuous thread 7. Cap Color: Black/White 8. Cap Attached: No 9. Cap Material: Polypropylene (plastic) 10. Closure style: Solid top, screw thread cap 11. Neck size: 24-400 12. Cap liner: Foam lined 13. Packed individually in a compartmentalized box 14. Must be free from breakage, cracks, chipped rims and other defects 15. Comes with a brand	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
18	Watch Glass, Ø 90 mm Functional Specifications: Used for: a) cover glasswares like beakers b) evaporates solvents in a sample and c) holds/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material - Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range: 1.5 mm to 2 mm 3. Free polished rims/edge 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box 5. Must be free from breakage, cracks, chipped edges and other defects 6. Comes with a brand	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
19	Set of Tools: Ball Peen Hammer, handle length is 11-inch, 350g approx. weight, 1 pc/set	10 sets each	10 sets each	60 calendar days from the date of	DepEd Cebu City Division,

Functional Specifications: Used topeen dent surfaces in metals Performance Specifications: Should be able to topeen dent surfaces in metals Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc./set			Receipts to be attached to Proceed/Purchase Order	to Brgy. Day-as, Cebu City
Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set Functional Specifications: Used to bend tiny solid wire connectors Performance Specifications: Should be able to bend tiny solid wire connectors Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set				
Set of Tools: Mechanical Wire Cutter and Pliers, 6.5-inch, 1 pair/set Functional Specifications: Used to bend large wires Performance Specifications: Should be able to bend large wires Design Specifications: Mechanical Wire Cutter and Pliers, 6 1/2 inches, chrome vanadium material, 1 pair/set				
Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set Functional Specifications: Used to drive precision screws Performance Specifications: Should be able to to drive precision screws Design Specifications: Precision Screwdrivers Set, 6 pc., (3 philips, flats)/set, with plastic casing, 1 set				
Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set Functional Specifications: Used to drive flat head screws Performance Specifications: Should be able to drive flat head screws Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches long, chrome vanadium material, 1 pc./set				
Set of Tools: Screwdriver, Phillips, 6-inch, 1 pc/set Functional Specifications: Used to drive philips type screws Performance Specifications: Should be able to drive philips type screws Design Specifications: Screwdriver, Phillips, Point size blade #3 x 6" long, chrome vanadium material, 1 pc./set				
Set of Tools: Soldering Iron, 60 watts, 1 pc/set Functional Specifications: Used to heat electrical contacts for permanent joints Performance Specifications: Should be able to heat electric contacts for permanent joints Design Specifications: Soldering Iron, 60 watts, small type, wooden handle, 1 pc./set				
Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 lb/spool, 1 spool/set				

	Functional Specifications: Used to provide permanent joint for different electrical components Performance Specifications: Used to provide permanent joint for different electrical components Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1 lb./spool, 1 spool/set				
	Set of Tools: Soldering Paste, 50 grams/can, 1 can/set Functional Specifications: Used to provide better adhesion of solder lead to electrical joints Performance Specifications: Used to provide better adhesion of solder lead to electrical joints Design Specifications: Soldering Paste, all purpose flux, non-corrosive, 50 grams/can, 1 can/set				
	Set of Tools: Tweezers, stainless steel, with curved tips, 6.5-inch long, 1 pair/set Functional Specifications: Used to hold and pick tiny electronics components Performance Specifications: Used to hold and pick tiny electronics components Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2 inches long, 1 pair/set				
20	Pipette, Beral, 1 ml (5011100011-100001) Functional Specifications: Used to transfer/dispense liquid samples. Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 ml. Design Specifications: 1. One-piece pipette, made from flexible soft non-toxic plastic that has a protuberance on top that serves as liquid retention chamber 2. Capacity: 1 ml in 0.25 ml grad interval 3. No rubber head 4. Total length range: 140 mm - 150 mm 5. With molded graduations	5pcs	5pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
21	Gloves, Hand, super nitrile	5pairs	5pairs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes Performance Specifications: Must be able to protect hands against mechanical risks, microorganisms, chemical burns and splashes Design Specifications: 1. Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped). 2. Material: Super nitrile, reusable with the following dimensions: a) length of gloves : 13 inches (330.2 mm) min b) thickness: 0.38 -0.52 mm (min) 3. Color : Green 4. Size: S 5. Interior finish : Flocked interior (acid/solvent resistant) 6. Exterior finish : Smooth 7. Cuff type: Rolled beaded 8. Latex free to suit those with latex allergies 9. Non-slip wear resistant high elasticity , waterproof 10. Puncture resistant 11. With detailed imprints on each glove, on the following: a) the glove size/s b) the name of manufacturer c) nitrile, flocked d) individual manufacturing lot e) with pictograms for certification category requirements CE 0334 (EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 12. Individually packed in resealable plastic bag 13. Comes with a brand				
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I hereby certify to comply and deliver all the above requirements.

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

Section VI. Schedule of Requirements **(Re-Bidding) Supply and Delivery of Math Learning Tools and Equipment**

Lot 2

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

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Meterstick, plastic 1. Material: Plastic; 2. Thickness: 6 mm (minimum); 3. Width: 24 mm (minimum); 4. Length: 1,000 mm; 5. The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions; 6. The back is scaled in inches, numbered in every inch with 1/8 inch divisions; 7. The numbers and division lines are in dark color; 8. Must be straight and flat; and free from toxic materials; 9. Edges and Surfaces should be smooth and even; 10. Comes with plastic jacket; 11. Standard abbreviation of the measurement unit/s must be followed; and	130pcs	130pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Protractor (for student) 1. Protractor, student-type, plastic, transparent, semi-circular, 180°; 2. Ø150mm (or 75mm radius), 1mm thick (minimum); 3. Angular graduations are in degrees, from 0° to 180°. With two (2) sets of numerals, one reading clockwise and the other reading counterclockwise; 4. Linear graduations are in millimeter, from 0 to 100mm; 5. With a hole at vertex point enough for a fine string to pass through it; 6. Plastic Surface Finish: Smooth, clear, and free from scratches; 7. It must be horizontally level when laid flat on a table - no warping; 8. Comes with a plastic case; and	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

3	Ruler, Plastic, 12 inches or 30 cm 1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum); 2. Approximate Width x Length: 28 mm x 314 mm; 3. Graduations: Metric graduations on one side while English graduations on the other side; * Metric graduations are in centimeters, from 0 cm to 30 cm, with every cm subdivided by 10. * English graduations are in inches, from 0 inches to 12 inches, with every inch subdivided by 16. 4. Clear, readable black, non-groove permanent prints (will not fade and cannot be scratched off); 5. Bendable up to U-shape when held at both ends; and 6. The item shall be free from toxic materials.	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	Tape Measure, 1.5 meters 1. Tape Measure, 12 mm width x 1.5 meter long 2. Made of flexible fiberglass fabric with metal end pieces 3. Color: White with black graduation markings 4. Graduation: in cm on one side and inches on the other side, smallest graduation in mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case.	585pcs	585pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
5	Calculator, Scientific 1. Display: LCD, 2 line(s) X 10 characters (minimum), stably shows input expressions/equation, calculation result, and various indicators; 2. Built-in functions not less than 240 inclusion of the following: a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, radian (including conversion of the mentioned Basic Calculations); b) Memory calculation, Logarithm and hyperbolic functions; c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and d) Trigonometric functions: sin, cos, tan, sin-1, cos-1, tan-1; 3. Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operates as such correspondingly; 4. Power requirement: two way dual (battery, built-in solar system), the unit consistently operational after replacing the battery for three trials; its solar system powers the unit normally in a well-lit room without the battery; 5. Brand must be established in providing quality products for five (5) years and up.	130pcs	130pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
6	Stopwatch, digital 1. Digital type, water-resistant (5-bar) 2. Start, stop, and re-set operations 3. Display Number: 4mm W x 10mm H 4. Measure Unit: 1/100th of a second 5. Working Range: up to 23hr 59min 59sec 6. Individually and properly packed in a box. 7. Instruction Manual in English 8. Approximate W x H x T: 60mm x 67mm x 20mm 9. Ready to use and comes with extra batteries.	29pcs	29pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

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

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

Section VI. Schedule of Requirements
(Re-Bidding) Supply and Delivery of TVL Learning Tools and
Equipment
Lot 3

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

A. SMAW

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	TIG/MIG/ ARC 3 in 1 Welding Machine with complete nozzle accessories, inverter, 300A, with snap and grip	4 sets	4 sets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
2	ARGON Tank with regulator (with content), 9" in diameter, 300 CF, 100lbs when empty	2 sets	2 sets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
3	Mechanical Pliers Tong	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
4	Ball Deen Hammer 10 Oz'	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
5	Tinner Snips 14"	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
6	Pipe Wrench 14"	10 pcs	10 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
7	Oxygen Acetylene Tank with content, 50 lbs, 9" diameter, 12 cubic ft, with complete accessories and regulator	2 sets	2 sets	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS
8	SMART TV 55" Specification: 55" Smart UHD 4K Ultra High Definition (UHD) 3840x2160; 4K AI Upscaler; 4K HDR10	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School Don Vicente Rama MNHS

B. Electronics

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Hot air Rework soldering station Specification: Hot Air SMD Rework Soldering Station Work environment 0-40; Temperature range 100-500; Gas flow 120L/min (max)	4 units	4 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School
2	SMART TV 55" 55" Smart UHD 4K Ultra High Definition (UHD) 3840x2160; 4K AI Upscaler; 4K HDR10	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School
3	Digital Multi-tester Specification: Digital Tester Meter, 800A, 4000 counts Multimeter, AC/DC Voltage Resistance, powered by 2 pcs 1.5V AA batteries (included)	4 units	4 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School
4	Drill Specification: Professional Cordless 12Volts Portable Drill Heavy Duty, 1 Battery + BMC Box, Extra 32 Accessories with carrying hardcase	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School
5	Blower Specification: Blower Power Tool, 220 V Heavy Duty Leaf Air Blower with dust bag and accessories set, 820 W	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	Abellana National School

C. Housekeeping

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Coffee Maker Specifications: 1000W, 230V, Aluminum, 175 x 275 x 323mm, 1.5kg	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Electric kettle Specifications: 1400W, 230V, 150 x 110 x 220mm, Inner material: Aluminum, Housing Material: Plastic	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
3	Carpet sweeper Specifications: All-in-One Sweep Drag Household Hand Push 360 Degree Rotating Sweeping Broom, Room and Office Floor Sweeper Cleaner Dust Mop	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	Vacuum cleaner (dry and wet) Specifications: 1400W Flexio-Power wet and dry vacuum cleaner, 3-in-1 vacuum with wet, dry and blow functions. Accessories stored on board for efficient, easy access. 360° rotation for ease of use and stable handling Accessories included: 3	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
5	Polisher (electric with complete accessories) Specifications: Size: 16 Inches (406) Underside Size: 40.6 cm with Bumper Handle Size: 1m Adjustable Stainless Tube Cord: 13.5 Meters Royal Cord Motor: 3/4 HP 220V 60 Cycles Brush Speed: 175 RPM Consumption: 0.559kw/559 watts	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

6	Washer with dryer Specifications: 8.0kg washing capacity / 4.6kg spin dry capacity 15 minutes wash timer 5 minutes spin dry timer 2 washing programs (gentle and soft) Drain selector Detachable wash tub cover Water inlet access in wash tub and spin dry tub Lint filter Wash - 370 watts Spin - 135 watts IP x 4 Ingress Protection Rating LXWXH: 83 x 47 x 86 cm	1 unit	1 unit	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
7	Flat iron Specifications: With pilot lamp indicator With thermal fuse protection Easy temperature settings	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
8	Ironing Board Specifications: *Size: Small, Medium, Large *L: 12" W: 12" H: 46" [Small and Medium Folded] *L: 12.25" W: 14" H: 49" [Large Folded] *HEIGHT (IN USE) 30"/32"/33.5" *BOARD SIZE: (LENGTH) SMALL: 29.5"; MEDIUM: 35"; LARGE: 39.5" *IRONING BOARD SPAN (IN USE) S: 37"; M: 42"; L: 49" *Collapsible feature for easy storage *Material: Steel Tubes, Particle Board, Pongee Fabric *Poly Ethylene (PE) coated finish for long lasting color	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
9	Steam pressers Specifications: Lightweight & portable, small size for one hand to hold.	2 units	2 units	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

	- Adopts Steam Plus technology, 1200W powerful steam, care of the clothes and effectively removing the wrinkle of clothes. - Highly efficient penetration into clothing, 22g/min steam with high temperature and pressure for 7-8 minutes ironing. - Equipped with aluminum alloy steam nozzle, ceramic glaze and anion panel for secondary heating, the cleaner can make more strong steam. - Micro pressurized steam, not easily leaking water, fast steam output, further spray distance, wide steam coverage.				
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D. Dress Making

Item No.	Description	Quantity	Total	Delivered, Weeks/Months	Place of Delivery
1	Tape Measure (Plastic)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
2	Hip Curve (Wooden)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
3	Meter Stick (Wooden)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
4	French Curve (wooden)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
5	Pinking Shears Size:24*9cm (approx.)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
6	Scissors Sharp Stainless Steel Tailor Scissors with Cover Heavy Duty Sewing Fabric Scissors	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
7	Cutting Shears Soft-grip handles for comfortable use; can be used left- or right-handed. Perfect for the home or the office. For cutting paper, cardboard, fabric, photos, and more. Material: Stainless Steel Quality: Top high-quality	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
8	L-Square (Wooden)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
9	Transparent Ruler with grid	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
10	Basin and Pail multipurpose, LARGE: 28*12cm	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
11	Sewing Box with kit Sewing Kit Needle Box Set 10 in1 Household Sewing Tools Portable Sewing Kit	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
12	Tracing Wheel (plastic)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
13	Hanger (plastic)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
14	Screw Driver Flat (medium)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

15	Screwdriver Flat (Small)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
16	Triangle 16" 45" x90"	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
17	Hand Spray (Plastic)	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
18	Seam Ripper Plastic Body with Cap Cutlery Steel - Long Lasting Sharpness Plastic Ball on Short Finger to protect fabric	10pcs	10pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City
19	Working Table 8' Folding Table Seats up to 10 Adults 661 lb. Static Load Capacity 1.75" Thick Granite White Top is waterproof, impact and stain resistant Gray Powder Coated Locking Legs with protective floor caps Legs fold underneath top for flat storage	2 pcs	2 pcs	60 calendar days from the date of receipt of Notice to Proceed/Purchase Order	DepEd Cebu City Division, New Imus, Brgy. Day-as, Cebu City

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

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

Section VII - Technical Specifications (Re-Bidding) Supply and Delivery of Science Learning Tools and Equipment

Lot 1

A. Junior High School

Item No.	Description	Quantity	Statement of Compliant
1	Flask, Volumetric, borosilicate 250 ml Functional Specifications: Used to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 ml. Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solutions at a certain temperature and precise dilution of solutions up to 250 ml. Design Specifications: 1. Type: Class A 2. Shape : A round or pear-shaped bulb, a long thin neck topped by a snap cap and with flat bottom 3. Material of body: Borosilicate - clear, transparent and bubble-free, glass with the following dimensions: a) Height: 225 mm b) Outside diameter : 78 mm (approx.) c) Size: 250 mL d) Tolerance: ± 0.12 mL 4. With heavy duty rim 5. Comes with snap cap a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap : No. 250 d) Color of snap cap: Blue 6. Must meet ASTM E- 694 for volumetric ware, ASTM E-542 for calibration of volumetric ware and ASTM E-288 for volumetric flasks. 7. Calibrated "to contain" (marked "TC" or "IN") 8. Manufacturer should be accredited by NIST standards or its equivalent to the country of origin to certify that their items are calibrated. 9. Must be free from breakage, cracks, sharp rims and other defects. 10. Packaging : Roll up glassware in newspaper and secure with a piece of masking tape and place in a bubble pouch and individually packed in a sturdy box. 11. Comes with a brand, with five (5) years existence in the glassware industry.	20pcs	
2	Graduated Cylinder, borosilicate, 10 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 mL capacity Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions : a) Outside Diameter: 13-14 mm b) Height: 177-178 mm c) Thickness range : 1.3-1.4 mm d) Tolerance: ± 0.20 4. Capacity: 10 mL 5. Graduation Range : 1 to 10 mL 6. Graduation Interval : 0.1 mL 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glassware industry.	20pcs	

3	Graduated Cylinder, borosilicate, 100 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: a) Must be able to measure and to deliver the volume of liquids up to 100 ml capacity b) Used as a container to determine the volume of irregularly shaped solids by water displacement Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small flared-out lip 3. Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions: a) Outside Diameter: 29-31 mm b) Height: 254-256 mm c) Thickness range: 1.3-1.4 mm d) Tolerance: ± 0.40 ml 4. Capacity: 100 ml 5. Graduation range: 5 to 100 ml 6. Graduation interval: 1 ml 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. With single graduated metric scale with plastic bumper guard 11. With glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glass industry	20pcs	
4	pH Meter, hand-held 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 16. Must be free from sharp edges 17. Must have a brand	20pcs	
5	Thermometer, Laboratory Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature -20° to 110°C Design Specifications: 1. Type: Alcohol filled, partial immersion thermometer 2. Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapors on one end and a thin capillary opening running through the length of its center 3. Material: Glass 4. Color: White 5. Non-toxic red-filled thermometer 6. Partial immersion type with immersion line indicator and ring top 7. With precision red alcohol-filled, reinforced bulbs, and with expansion chamber 8. With white back with non-roll sleeve 9. With clear and permanent markings: scale never washes out 10. Provided with non-roll plastic case 11. With continuous alcohol column 12. Dimensions: 13. Range: -20°C to 110°C 14. Division: 1°C 15. Length: 300 mm (minimum) 16. Accuracy: $\pm 1^{\circ}\text{C}$ 17. Diameter: 5.8 to 6.2 mm 18. Immersion line: 7.6 mm 19. Manufacturer of the country of origin should issue certificate of calibration for every item. 20. Must be free from breakage, cracks, chipped and sharp edges and other defects 21. Comes with a brand	21pcs	

6	Universal pH Paper, H O-14, 100 strips/pack Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base. Performance Specifications: Must be used as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided, which corresponds to: (a) For an acid pH 0-pH 6 (b) For a base pH 8-pH 14 (c) For distilled water pH 7 Design Specifications: 1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/paper based 4. Dimension of pH strip (a) Length: 65 mm x 6 mm 5. Number of colors in indicator test strips: four color 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. Comes with a beeper	10packs	
7	Beaker, borosilicate, 1000 ml Functional Specifications: Used to serve as container for mixing and for heating liquids. Performance Specifications: Must be able to serve as container for mixing and for heating liquids. Design Specifications: 1. Griffin type, borosilicate, transparent, bubble-free glass 2. Shape: a cylindrical container with flat bottom 3. Thickness range: 1.5 mm to 2.0 mm 4. Permanent white graduations, with white enamel marking spot 5. Features an easy-pour spout 6. Capacity: 1000 mL $\pm$ 10% enameled onto the glass 7. Single graduated metric scale 8. Graduation starts at 200 mL in 100 mL increments 9. Height range: 140 mm to 160 mm 10. Outside diameter: 100 mm to 110 mm 11. There must be no cracks and sharp parts 12. Safely packed in a compartmentalized box	20pcs	
8	Dish, Petri (Pyrex) Functional Specifications: Used to secure the specimen under study. Performance Specifications: Must be able to secure the specimen under study. Design Specifications: 1. Reusable, borosilicate, circular glass with beaded edge 2. Bubble free, plain surface 3. Outside Diameter of Cover: 100 mm $\pm$ 2 mm 4. Outside Diameter of Dish: 92 mm $\pm$ 2 mm 5. Overall height with cover (as assembled): 20 mm $\pm$ 2 mm 6. Glass thickness range: 2 mm to 2.2 mm 7. There must be no cracks and sharp edges 8. Safely packed in a compartmentalized box	20pcs	
9	Beaker, borosilicate, 250 ml	20pcs	

	Functional Specifications: Must be able 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. Performance Specifications: Must be able to contain/hold/prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service. Design Specifications: 1. Type: Griffin low form. 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout for "break" to aid pouring. 3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: a) Outside Diameter: 48 mm to 70 mm b) Height: 90 mm to 92 mm c) Thickness: 1.5 mm to 2.0 mm 4. With permanent white enamel graduations of approximate volumes, inscriptions and markings etched onto the glass. 5. With large white marking spot. 6. Features an easy-pour spout. 7. "With double graduated metric scale." 8. Capacity: 250 ml, 5% etched onto the glass. 9. With marking graduation to 48 mm or 20 ml in 25 ml increments. 10. With marking graduation to empty, starts at 0 ml, in 25 ml increments. 11. Graduation interval: 25 ml. 12. Graduation range: 25 ml to 200 ml. 13. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box. 14. Can withstand heating up to 200-230°C for normal, standard use service. 15. Must be free from breakage, cracks, chipped rim and other defects. 16. Comes with a brand of five (5) years existence in the glassware industry.		
10	Beaker, borosilicate, 500 ml Functional Specifications: a) used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and b) to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Performance Specifications: a) Must be able to contain/hold/prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath for 150°C for normal, standard use service and to serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Design Specifications: 1. Type: Berzelius, tall form 2. Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or "break") to aid pouring. 3. Material: Borosilicate, clear, bubble-free glass - Berzelius, tall form with the following dimensions: a) Outside Diameter Range: 75 mm - 80 mm b) Height range: 134 mm - 140 mm c) Thickness: 1.5 mm to 2.0 mm 4. Capacity: 500 ml; ± 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 7. With easy pour spout 8. Double graduated metric scale 9. Marked to fill: Graduation starts at 50 ml, in 50 ml increments 10. Marked to empty: Graduation starts at 0 ml, in 50 ml increments 11. Can withstand heating up to 200-230°C for normal, standard use service 12. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 13. Must be free from breakage, cracks, chipped rim and other defects 14. Comes with a brand, with five (5) years existence in the glassware industry	20pcs	
11	Burner, Alcohol, glass, 150 ml Capacity	19pcs	

	Performance Specifications: a) Must be able to produce hot, consistent open flame b) For slow/ gentle heating of glassware and substances c) Can withstand prolonged heating without breaking d) Visually determine the identity of an unknown metal or metalloids 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 e) Bend a glass tubing f) Heat to sterilize, to accelerate, and to trigger chemical reactions. g) For combustion purposes and techniques Design Specifications: 1. Shape : A globe-shaped body and flat base (bottom) with threaded mouth. 2. Material: Sturdy, heavy walled, clear, transparent, bubble free glass with the following dimensions: a) Outside Diameter : 80 mm to 85 mm b) Total height: 100 mm to 105 mm c) Capacity : 150 ml 3. With wick holder permanently attached to a threaded base a) Material of wick holder and cover/caps : Nickel-plated brass b) Type of wick holder : Threaded 4. With one (1) pc. cotton fiber/strand braided wick perfectly fitted to the wick tube a) Material of wick : Cotton fiber/strand b) Type of wick: Braided c) Length: 7 inches (178 mm) min d) Diameter: 3/16 inches (5-6 mm) 5. With snuff/nap-on cover/cap 6. With ten (10) pc replacement braided cotton fiber/strand wicks 7. Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box 8. Must be free from breakage, cracks, chipped rims and other defects 9. Comes with a brand		
12	Mortar and Pestle, porcelain, 150 ml Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle Performance Specifications: Must be able to pulverize/mash/grind and mix materials in a mortar using a pestle to demonstrate how particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased. Design Specifications: A. Mortar 1. Shape of mortar : Bowl shape, with wide mouth, and with deeply molded, smooth rounded bottom 2. Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter : 130 mm ± 1 mm b) Depth : 65 mm c) Flat bottom : 87 mm 3. Capacity: 150 ml 4. With pouring lip 5. With unglazed grinding surface (interior) and uniformly glazed exterior B. Pestle 6. Shape of pestle: Cylindrical with bulbous bottom with the following dimensions: a) Length range : 133-135 mm and b) Diameter range : 28 - 30 mm dia at its widest point. 7. Material of pestle: A heavy bowl-shaped porcelain 8. Uniformly glazed on its handle and rough on opposite end 9. The set is individually wrapped, enclosed in a bubble wrap and packed in sturdy box 10. Must be free from breakage, cracks, chipped parts and other defects 11. Comes with a brand	20pcs	
13	Rubber Stopper # 6 for Erlenmeyer Flask narrow-mouth 250 ml, 1 hole	20pcs	

	Functional Specifications: Used to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Performance Specifications: Must be able to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Design Specifications: 1. Shape: Cylindrical with a tapered bottom end 2. Material : Premium grade SBR black rubber compound with the following dimensions: a) Height: 25 mm b) Top Ø: 32 mm c) Bottom Ø : 26 mm d) Hole Ø: 5 mm 3. Number of holes :With one (1) hole 4. Dimension tolerance on height, top and bottom diameter : ± 0.5 mm 5. Hardness : 40 ± 5 Duro 6. Packed in resealable plastic bag 7. Comes with a brand			
14	Test tube brush Functional Specifications: Used to clean test tubes and other small sized glasswares Performance Specifications: Must be able to clean test tubes and other small-sized glasswares with densely filled radial tip and head brush to make complete contact with walls, corners and bottom. Design Specifications: 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: a) Diameter: 17-19 mm b) Length: 96-98 mm c) Over-all length: 220-229 mm 3. Material of handle: Galvanized steel wire 4. Type of wire handle : Common loop twisted wire 5. With circular loop for hanging 6. Packed in a resealable plastic bag 7. Must be free from sharp metal parts 8. Comes with a brand	14pcs		
15	Test Tube, borosilicate, 16 mm x 150 mm Ion	50pcs		

	Performance Specifications: Must be able to contain/hold a small chemical reaction and... makes solids and liquids; heats small quantity of substances up to more than 100°C over a Bunsen burner's flame Design Specifications: 1. Shape : Fingertike length of glass tubing, open at the top, usually with a rounded tip at the top, and a rounded 'U' shaped bottom 2. Material of test tube: Borosilicate, clear, transparent and bubble-free glass, within with the following dimensions: a) Diameter: 14 mm diameter b) Thickness: 1.3 - 1.4 mm c) Length: 150 mm long d) Capacity: 20 ml. 3. With heavy uniform wall thickness, excellent heat resistance 4. Test tubes must be reusable (not disposable) 5. With large, white enamel marking spot 6. With permanent graduation of approx. volume and inscriptions in high contrast white enamel. 7. Can withstand heating up to 150°C for normal, standard use service 8. Comes with a certification from the manufacturer that the test tube is reusable not disposable 9. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box 10. Must be free from breakage, cracks, chipped rims and other defects 11. Comes with a brand with five (5) years of existence in the glassware industry		
16	Vial, screw-neck, 50 ml with screw-t Functional Specifications: Used to hold/contain/store/max. small quantities of samples/solutions/... substances up to 50 ml. Performance Specifications: Must be able to hold/contain/store/max. samples/solutions/substances up to 50 ml. Design Specifications: 1. Type: Wide mouth 2. Shape : Baffle-like shape with a threaded neck, screw cap, polypropylene closure and with a flat bottom 3. Material : Borosilicate, clear, transparent, and bubble-free glass with the following dimensions: a) Outside Diameter: 25 mm to 30 mm b) Length: 100 mm to 108 mm 4. Capacity: 50 ml. With screw-type plastic cap 5. Shape of neck : Cylindrical, round 6. Neck finish: Continuous thread 7. Cap Color: Black/White 8. Cap Attached: No 9. Cap Material : Polypropylene (plastic) 10. Closure style : Solid top, screw thread cap 11. Neck size: 24-400 12. Cap liner: Foam lined 13. Packed individually in a compartmentalized box 14. Must be free from breakage, cracks, chipped rims and other defects 15. Comes with a brand	25pcs	
17	Watch Glass, Ø 90 mm Functional Specifications: Used to: a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Performance Specifications: Must be able to: a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material : Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range : 1.5 mm to 2 mm 3. Fine-polished rims/edge 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box 5. Must be free from breakage, cracks, chipped edges and other defects 6. Comes with a brand	21pcs	
18	Lens Paper, 50's/pack	21packs	

19	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905 Functional Specifications: Used to filter/separate mixtures solids from liquids Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids) Design Specifications: 1. Type: Technical use 2. Shape of filter paper : Square 3. Material: Cellulose with the following dimensions: a) Length: 580 mm b) Width : 580 mm 4. Color: White to cream 5. Grade: 0905 6. Surface: Creped 7. Initial Filtration Speed: 20 sec ($\pm$ 1 sec)/10 mL; Flow rate: High 8. Wet strengthened 9. Packed in brown filter paper tube 10. Comes with a brand	16sheets	
20	Nichrome wire. 0.4, 100 ft (1 spool per package = 1.1 oz minimum with spool) Functional Specifications: Used as a wire loop and heating element on which a metal salt or solid ionic compound is made to adhere into it and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound Performance Specifications: Must be used as a wire loop on which a metal salt or solid ionic compound is made to adhere to, and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound in a laboratory activity, the Flame test Design Specifications: 1. Shape: Round wire 2. Material of wire: Nichrome Alloy of nickel and chromium, Ni80 Cr20 with the following dimensions: a) AWG size: 26 b) Diameter: 0.4 mm c) Length : 100 ft 3. Form: Soft, rust-free wire 4. Color: Silvery grey 5. Resistance : 2.57 ohms/foot 6. Annealed soft 7. Perfectly tensioned, Zero elongation, scratches, or other flaws. 8. Comes in a spool 9. Packed in a resealable plastic pouch 10. Comes with a brand	5spool	
21	Triangular File, fine, 6-inch Iron, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth 5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic 7. Packed in a resealable pouch 8. Comes with a brand	21pcs	
22	Globe, Terrestrial	10units	

	Functional Specifications: Used to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy. Performance Specifications: Should be able to represent the earth in three dimensions and the locations and sizes of land masses and water bodies in scale accuracy. Design Specifications: 1. Primarily used as a reference to geographical & political information. 2. Globe diameter: minimum of 12 inches. 3. Show the following: (a) All continents, countries with their capitals, and important cities and places. (b) Updated with newly established countries, or re-named countries, and cities. (c) Illustrates the flow and directions of ocean currents. (d) Lines of Latitudes (0° to 90°), graduated both in Northern and Southern Latitudes and Longitudes (0° to 180°), graduated both in Eastern and Western Longitudes. (e) International Date Line, Arctic Circle, Tropic of Cancer, Tropic of Capricorn and Antarctic Circle. (f) Lines of Equator and Prime Meridian. (g) Names of mountain, mountain ranges, volcano, ocean floors, gulfs, seas and lakes. (h) Names of continents, seas and country boundaries should be according to international standard. (i) Philippine territory emphasizing the "West Philippine Sea" as one of the Philippine territorial sea boundaries. (j) The Nine Dashed Line should not appear. 4. The globe which is made of plastic is mounted on a plastic meridian ring (C-shape) with movable magnifier. 5. The base stand is made of hard/tough plastic. 6. Must be branded.			
23	Musical Instrument (Miniature Guitar) Functional Specifications: Used to demonstrate musical application of standing waves. Performance Specifications: Should be able to demonstrate musical application of standing waves. Design Specifications: 1. Mini acoustic type, half-size guitar, any color, surface finish: varnish. 2. Made of good quality wood without sign of warp. 3. Minimum dimensions: Overall length: 33 inches, Width: 12 inches, Depth: 3 1/2 inches. 4. Standard guitar steel strings (Nos. 1-6), 18 fret minimum.	10 pcs		
24	Set of Tools: Ball Peen Hammer, handle length is 11-inch, 350g approx. weight, 1 pc/set Functional Specifications: Used to peen dent surfaces in metals. Performance Specifications: Should be able to peen dent surfaces in metals. Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx., 1 pc./set. Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set Functional Specifications: Used to bend tiny solid wire connectors. Performance Specifications: Should be able to bend tiny solid wire connectors. Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set.	13 sets each		

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

	components			
	Performance Specifications: Used to hold and pick tiny electronics components Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2 inches long, 1 pair/box			
25	Glass Cover Slips, 100's/box Functional Specifications: Used to secure the wet mount sample specimen. Performance Specifications: Must be able to secure the wet mounted sample specimen. Design Specifications: 1. Pre-cleaned cover glasses and not sticking from each other 2. Material: Transparent glass 3. Quantity: 100's/small plastic box 4. Dimension: 22 mm x 22 mm square 5. Thickness: 0.13 mm - 0.17 mm 6. There shall be no chipped edges 7. Safely packed in a plastic box	10 boxes		
26	Glass Slides, 72's/box Functional Specifications: Used to contain the specimen for examination under the microscope. Performance Specifications: Must be able to accommodate the specimen subject for examination under the microscope. Design Specifications: 1. Clear, flat glass, free from moisture, dirt, and film. 2. No color, no frost and no chipped edges 3. Dimension: 75 mm (± 1 mm) x 25 mm (± 1 mm). 4. Thickness: 1.1 mm (± 0.1 mm) 5. No sharp edges and pointed corners 6. Packed in a box containing 72 slides with thin paper sheets in between them.	20 boxes		
27	Compass, Magnetic Functional Specifications: Used to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field Performance Specifications: Should be able to find direction on the earth's surface by the alignment of the compass needle with the earth's magnetic field Design Specifications: 1. Outside Diameter: 48 mm to 52 mm 2. Needle mounted in an Aluminum case with clear, scratch-free plastic or glass face 3. Graduated dial marked in cardinal points (North, South, West, East, Northwest, Northeast, Southwest, and Southeast). 4. Must be branded	5pcs		
28	Pipette, Beral, 1 ml Functional Specifications: Used to transfer/dispense liquid samples. Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL. Design Specifications: 1. One-piece pipette, made from flexible soft non-toxic plastic that has a protruberance on top that serves as liquid retention chamber 2. Capacity: 1 mL in 0.25 mL grad interval 3. No rubber head 4. Total length range: 140 mm - 150 mm 5. With molded graduations	20pcs		

29	Gloves, Hand, super nitrile Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes Performance Specifications: Must be able to protect hands against mechanical risks, microorganisms, chemical burns and splashes Design Specifications: 1. Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped). 2. Material: Super nitrile, reusable with the following dimensions: a) Length of gloves: 13 inches (330.2 mm) min b) Thickness: 0.38 - 0.52 mm (min) 3. Color: Green 4. Size: B 5. Interior finish: Flocked interior (acid/solvent resistant) 6. Exterior finish: Smooth 7. Cuff type: Rolled beaded 8. Latex free to suit those with latex allergies 9. Non-slip wear resistant high elasticity, waterproof 10. Puncture resistant 11. With detailed imprints on each glove, on the following: a) the glove size/s b) the name of manufacturer c) nitrile, flocked d) individual manufacturing lot e) with pictograms for certification category requirements CE 0334 (EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 12. Individually packed in resealable plastic bag 13. Comes with a brand	20pcs	
30	Flashlight with incandescent bulb Functional Specifications: Used to provide illumination on the surface of a globe model Performance Specifications: Should be able to provide illumination on the surface of a globe model Design Specifications: 1. Powered by two (2) 1.5 volts size D dry cells; Capacity: 3 volts 2. 7" long minimum 3. slide switch 5. 35 feet beam distance 6. Body: high impact resin construction 7. Must be branded	5pcs	
31	Lamp, Desk, Heavy Base Functional Specifications: Used to provide heat and illumination on specimen under study Performance Specifications: Should be able to provide heat and illumination on specimen under study Design Specifications: 1. Heavy base, able to stand by itself 2. 35 inches length minimum 3. Easily adjustable to direct the light wherever you need it the most 4. With On and Off Switch 5. Power source: AC 220 volts line; included with 60-100 Watts Yellow light bulb 6. Capacity: 100 watts 7. Preferable ungrounded plug (if the plug is grounded, an adapter should include in the item.) 8. With English User's Manual that includes Operation Guide 9. Should be branded	5pcs	

C. Senior High School

Item No.	Description	Quantity	Statement of Compliant
1	Flask, Volumetric, borosilicate 250 ml Functional Specifications: Used to measure/prepare/contain precise volume of standard solutions at a certain temperature/precise dilution of solutions up to 250 ml. Performance Specifications: Must be able to measure/prepare/contain a precise volume of standard solution at certain temperature and precise dilution of solutions up to 250 ml. Design Specifications: 1. Type: Class A 2. Shape : A round or pear-shaped bulb, a long thin neck topped with a snap cap and with flat bottom 3. Material of body: Borosilicate, clear, transparent and bubble-free glass with the following dimensions: a) Height: 225 mm b) Outside diameter : 78 mm (approx.) c) Size: 250 ml d) Tolerance: ± 0.12 ml 4. With heavy duty rim 5. Comes with snap cap a) Material of snap cap: High density plastic (polyethylene) b) With octagonal grip c) Snap-cap : No. 250 d) Color of snap cap: Blue 6. Must meet ASTM E- 694 for volumetric ware, ASTM E-5 calibration of volumetric ware and ASTM E-288 for volumetric flasks 7. Calibrated "to contain" (marked "TC" or "IN") 8. Manufacturer should be accredited by NIST standards equivalent to the country of origin to certify that their item is calibrated. 9. Must be free from breakage, cracks, sharp rims and other defects 10. Packaging : Roll up glassware in newspaper and secure with piece of masking tape and place in a bubble pouch and indiv. packed in a sturdy box 11. Comes with a brand, with five (5) years existence in the glass industry	10pcs	
2	Graduated Cylinder, borosilicate, 10 ml Functional Specifications: Used to measure and to deliver the volume of liquids Performance Specifications: Must be able to measure and to deliver the volume of liquids up to 10 ml capacity Design Specifications: 1. Type: Class A 2. Shape: Narrow cylindrical container with a small turned-out lip 3. Material: Borosilicate, clear and transparent bubble-free, glass with the following dimensions : a) Outside Diameter: 13-14 mm b) Height: 177-178 mm c) Thickness range : 1.3-1.4 mm d) Tolerance: ± 0.20 4. Capacity: 10 ml 5. Graduation Range : 1 to 10 ml 6. Graduation interval : 0.1 ml 7. Calibrated to deliver (TD) 8. All markings are in permanent white enamel 9. With pouring spout 10. Single metric scale, with plastic bumper guard 11. Glass hexagonal base (non-detachable) 12. Manufacturer of the country of origin should issue certificate of calibration for every item. 13. Placed in bubble wrap and packed individually in a compartmentalized box 14. Must be free from breakage, cracks and sharp rim 15. Comes with a brand, with five (5) years existence in the glassware industry	10pcs	
3	Graduated Cylinder, borosilicate, 100 ml	10pcs	

	OF LIQUIDS Performance Specifications: - Must be able to measure and to deliver the volume of liquids up to 100 ml capacity - Used as a container to determine the volume of irregularly shaped solids by water displacement Design Specifications: - Type: Class A - Shape: Narrow cylindrical container with a small turned-out lip - Material: Bubble-free, borosilicate, clear and transparent glass with the following dimensions: - Outside Diameter: 29-31 mm - Height: 254-256 mm - Thickness range: 1.3-1.4 mm - Tolerance: ± 0.60 ml - Capacity: 100 ml - Graduation range: 5 to 100 ml - Graduation interval: 1 ml - Calibrated to deliver (TD) - All markings are in permanent white enamel - With pouring spout - With single graduated metric scale with plastic bumper guard - With glass hexagonal base (non-detachable) - Manufacturer of the country of origin should issue certificate of calibration for every item - Placed in bubble wrap and packed individually in a compartmentalized box - Must be free from breakage, cracks and sharp rim - Comes with a brand, with five (5) years existence in the glass industry			
4	Thermometer, Laboratory type, Alcohol, -200C to 1100C Functional Specifications: Used to measure the temperature Performance Specifications: Must measure the temperature: -20° to 110°C Design Specifications: - Type: Alcohol filled, partial immersion thermometer - Shape: A small sealed tube made of glass that has a small hollow bulb filled partly with ethanol and partly with nitrogen and ethanol vapor on one end and a thin capillary opening running through the length of its center - Material: Glass - Color: White - Non-toxic red-filled thermometer - Partial immersion type with immersion line indicator and ring top - With precision red alcohol-filled, reinforced bulbs, and with expansion chamber - With white back with non-roll sleeve - With clear and permanent markings; scale never washes out - Provided with non-roll plastic case - With continuous alcohol column - Dimensions: - Range: -20°C to 110°C - Division: 1°C - Length: 300 mm (minimum) - Accuracy: $\pm 1^\circ\text{C}$ - Diameter: 5.8 to 6.2 mm - Immersion line: 76 mm - Manufacturer of the country of origin should issue certificate of calibration for every item - Must be free from breakage, cracks, chipped and sharp edges and other defects - Comes with a brand	10pcs		
5	Universal H Paper, pH 0-14, 100 strips/pack Functional Specifications: Used as an indicator to determine/measure the pH of substances, whether it is an acid, neutral or a base Performance Specifications: Must be used as an indicator to effect a color change when it is dipped into the different substances to determine/measure the pH of each, through comparison with the pH color chart provided, which corresponds to: - For an acid: pH 0-pH 6 - For a base: pH 8-pH 14 - For distilled water: pH 7 Design Specifications: - Type: Test strips - Shape: Rectangle - Material: Cellulose/Paper based - Dimension of pH strip: - Length: 69 mm x 6 mm - Number of colors in indicator test strip: in four colors to test pH values - Number of test strips: 100 pc strips - Packaging: Clear, transparent box - Shape of box: Square - With complete color chart for comparison with the color change to get the pH reading of the sample being tested - No sharp edges on box - Measures pH 0-pH 14 - Comes with a brand	10packs		

6	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905 Functional Specifications: Used to filter/separate mixtures solids from liquids Performance Specifications: Must be able to filter solids from liquids to demonstrate filtration, as one of the techniques in separating mixtures (solids from liquids) Design Specifications: 1. Type: Technical use 2. Shape of filter paper : Square 3. Material: Cellulose with the following dimensions: a) Length: 580 mm b) Width : 580 mm 4. Color: White to cream 5. Grade: 0905 6. Surface: Creped 7 Initial Filtration Speed: 20 sec (± 1 sec)/10 mL: Flow rate: High 8. Wet strengthened 9. Packed in brown filter paper tube 10. Comes with a brand	10 sheets	
7	Triangular File, fine, 6-inch long, with plastic handle Functional Specifications: Used to cut the glass tubing Performance Specifications: Must be able to cut the glass tubing Design Specifications: 1. Type of file: Triangular 2. Shape: Triangular 3. Material: High carbon steel 4. Kind of file: Fine, smooth 5. Length of file: 6" (150-152.4 mm) long 6. Material of handle: Plastic 7. Packed in a resealable pouch 8. Comes with a brand	10pcs	
	Beaker, borosilicate, 250 ml Functional Specifications: Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to more than 150°C for normal, standard use service Performance Specifications: Must be able to contain/hold /prepare solids and liquids during chemical reaction and heats them over a Bunsen burner's flame up to more than 150°C for normal, standard use service Design Specifications: 1. Type : Griffin,low form 2. Shape: Cylindrical container with straight sides, a flat bottom, and with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear and transparent bubble-free glass with the following dimensions: a) Outside Diameter: 68 mm to 70mm b) Height: 90 mm to 92 mm c) Thickness: 1.5 mm to 2.0 mm 4. With permanent white enamel graduations of approximate volumes, inscriptions and markings enameled onto the glass 5. With large white marking spot 6. Features an easy-pour spout 7. "With double graduated metric scale" 8. Capacity: 250 mL ±5% etched onto the glass." 9. With marking graduation to fill: starts at 25 mL in 25mL increments 10. With marking graduation to empty: starts at 0 mL in 25 mL increments 11. Graduation interval: 25 mL 12. Graduation range: 25 mL to 200 mL 13. Wrapped in paper, enclosed in bubble wrap and packed individually in compartmentalized box 14. Can withstand heating up to 200-230°C for normal, standard use service 15. Must be free from breakage, cracks, chipped rims and other defects 16. Comes with a brand of five (5) years existence in the glassware industry		

9	Beaker, borosilicate, 500 ml Functional Specifications: a) Used to contain/hold/prepare solids and liquids during chemical reaction and to heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and b) To serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Performance Specifications: a) Must be able to contain/hold/prepare solids and liquids during chemical reaction and heat them over a Bunsen burner's flame up to 150°C for normal, standard use service and to serve as a water bath. b) To serve as a water bath when heating flammable chemicals instead of an open flame to prevent ignition. Design Specifications: 1. Type: Berzelius, tall form 2. Shape: Cylindrical container with straight sides, a flat bottom, with a small spout (or "beak") to aid pouring 3. Material: Borosilicate, clear, bubble free glass - Berzelius, tall form with the following dimensions: a) Outside Diameter (range): 75 mm - 80 mm b) Height (range): 136 mm - 140 mm c) Thickness: 1.5 mm to 2.0 mm 4. Capacity: 500 ml, $\pm$ 5% etched/embossed onto the glass 5. With permanent white enamel graduations of approximate volumes, inscriptions and 6. With large white marking spot 7. With easy pour spout 8. Double graduated metric scale 9. Marked to fill: Graduation starts at 50 ml in 50 ml increments 10. Marked to empty: Graduation starts at 0 ml in 50 ml increments 11. Can withstand heating up to 200-230°C for normal, standard use service 12. Wrapped in paper, enclosed in bubble wrap and packed individually in a compartmentalized box 13. Must be free from breakage, cracks, chipped rims and other defects 14. Comes with a brand with five (5) years existence in the glass wares industry	10pcs	
10	Burner, Alcohol, lass, 150 ml Capacity Functional Specifications: Used to produce hot, consistent open flame for slow/gentle heating of glasswares and substances Performance Specifications: a) Must be able to produce hot, consistent open flame b) for slow/gentle heating of glasswares and substances c) can withstand prolonged heating without breaking d) visually determine the identity of an unknown metal or metalloids 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 e) bend a glass tubing f) heat to sterilize, to accelerate, and to trigger chemical reactions. g) for combustion purposes and techniques Design Specifications: 1. Shape: A globe-shaped body and flat base (bottom) with threaded mouth 2. Material: Sturdy, heavy walled, clear, transparent, bubble-free glass with the following dimensions: a) Outside Diameter: 80 mm to 85 mm b) Total height: 100 mm to 105 mm 3. Capacity: 150 ml 4. With wick holder permanently attached to a threaded base a) Material of wick holder and cover/caps: Nickel-plated brass b) Type of wick holder: Threaded 5. With one (1) pc cotton fiber/strand braided wick perfectly fitted to the wick tube a) Material of wick: Cotton fiber/strand b) Type of wick: Braided c) Length: 7 inches (178 mm) min. d) Diameter: 3/16 inches (5.6 mm) 6. With snuff/nap-on cover/cap 7. With ten (10) pc replacement braided cotton fiber/strand wicks 8. Wrapped in paper, enclosed in bubble wrap and packed in compartmentalized box 9. Must be free from breakage, cracks, chipped rims and other defects 10. Comes with a brand	10pcs	
11	Dish, Evaporating, 75 ml	10pcs	

	Functional Specifications: Used to contain/hold substances and to heat chemical solutions gradually, driving off the water to leave residual chemical solute Performance Specifications: Must be able to contain/hold substances and to demonstrate evaporation, as one of the techniques in separating mixtures, by heating chemical solutions gradually, driving off the water to leave residual chemical solute Design Specifications: 1. Shape: Deep form, broad, and wider at the top than bottom and with round bottom with pouring lip/spout 2. Material: Porcelain, with the following dimensions: a) Diameter: 80-82 mm b) Height/depth: 30-34 mm high 3. Capacity: 75 mL 4. With pouring lip/spout 5. Can withstand temperatures up to 1150°C 6. Uniformly glazed inside (except for rim) and partly uniformly glazed outside except bottom surface. 7. Must be free from breakage, cracks, chipped rims and other defects 8. Wrapped in paper, and packed in sturdy box 9. Comes with a brand		
	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 ml Functional Specifications: Used to : a) contain/hold a small chemical reaction, b) mix solids and liquids, c) heat substances over a Bunsen/alcohol burner's flame up to over 150 °C or d) collect them in a titration/distillation experiment Performance Specifications: Must be able to: a) contain/hold a small chemical reaction, b) mixes solids and liquids during chemical reaction, c) heats substances up to 150°C over a Bunsen burner's flame up to 250 mL, or d) serves as a reaction vessel in a titration experiment, and to collect distillate during distillation Design Specifications: 1. Shape : A conical body, a cylindrical short neck , narrow mouth, with sloping sides, and with a flat bottom 2. Material : Clear, and transparent bubble-free, borosilicate glass with the following dimensions: a) Outside diameter range :80 m -82 mm b) Height range: 130-132 mm c) Thickness range :1.5 to 2.0 mm d) Neck inside diameter range : 28 to 30 mm e) Tolerance : ±6% and other inscriptions enamelled onto the glass 3. Capacity: 250 mL capacity 4. Graduation range: 50 mL-200 mL 5. Graduation interval: 25 mL 6. Graduation starts at: 50 mL in 25 mL increments 7. With uniform wall thickness 8. With heavy duty beaded rim 9. With permanent durable white enamel graduations with large white enamel marking spot 10. Can withstand heating up to 150°C for normal standard use service 11. Wrapped in paper and individually packed in a compartmentalized box 12. Must be free from breakage, cracks, chipped rims and other defects 13. Comes with a brand with five (5) years of existence in the glass wares industry	10pcs	

13	Mortar and Pestle, porcelain, 150 ml Functional Specifications: Used to pulverize/mash/grind and to mix materials in a mortar using a pestle. Performance Specifications: Must be able to pulverize/mash/grind and mixes materials in a mortar using a pestle to demonstrate how particle size affects solubility and the rate of chemical reaction. Decreasing the size of the particles increases the rate of dissolving and speeds up the rate of reaction because the surface area of the reactant has been increased. Design Specifications: A. Mortar 1. Shape of mortar: Bowl shape, with wide mouth and with deeply indented smooth rounded bottom. 2. Material for mortar and pestle: Porcelain with the following dimensions: a) Outside diameter: 130 mm $\pm$ 3 mm b) Depth: 65 mm c) Flat bottom: 87 mm 3. Capacity: 150 ml 4. With pouring lip. 5. With unglazed grinding surface (interior) and uniformly glazed exterior. B. Pestle 6. Shape of pestle: Cylindrical with bulbous bottom with the following dimensions: a) Length range: 133-135 mm and b) Diameter range: 28-30 mm dia at its widest point. 7. Material of pestle: A heavy ball-shaped porcelain. 8. Uniformly glazed on its handle and rough on opposite end. 9. The set is individually wrapped, enclosed in a bubble wrap and packed in a sturdy box. 10. Must be free from breakage, cracks, chipped parts and other defects. 11. Comes with a brand.	10pcs	
14	Rubber Stopper #6 for Erlenmeyer Flask narrow-mouth 250 ml, 2 holes Functional Specifications: Used to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Performance Specifications: Must be able to seal the openings of narrow mouth 250 ml Erlenmeyer flasks and other laboratory glassware that require a tighter seal or a greater degree of chemical resistance with one (1) hole opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination. Design Specifications: 1. Shape: Cylindrical with a tapered bottom end. 2. Material: Premium grade SBR black rubber compound with the following dimensions: a) Height: 25 mm b) Top ϕ: 32 mm c) Bottom ϕ: 26 mm d) Hole ϕ: 5 mm 3. Number of holes: With one (1) hole. 4. Dimension tolerance on height, top and bottom diameter: $\pm$ 0.3 mm. 5. Hardness: 40 $\pm$ 5 Duro. 6. Packed in resealable plastic bag. 7. Comes with a brand.	5pcs	
15	Test tube brush Functional Specifications: Used to clean test tubes and other small sized glassware. Performance Specifications: Must be 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. Design Specifications: 1. Shape of bristles: Radial tufted tip bristles and brush head to make complete contact with walls, corners and bottom. 2. Material of bristles: Medium stiff nylon with the following dimensions: a) Diameter: 17-19 mm b) Length: 96-98 mm c) Over-all length: 220-229 mm 3. Material of handle: Galvanized steel wire. 4. Type of wire handle: Common loop twisted wire. 5. With circular loop for hanging. 6. Packed in a resealable plastic bag. 7. Must be free from sharp metal parts. 8. Comes with a brand.	5pcs	
16	Test Tube, borosilicate, 16 mm x 150 mm Ion	10pcs	

	Reaction: To mix small quantities of solids and liquids, and to heat small quantities of substances. Performance Specifications: Must be able to contain/hold a small chemical reaction and mix solids and liquids; heats small quantity of substances up to more than 100°C over a Bunsen burner's flame. Design Specifications: 1. Shape: Fingertip length of glass tubing, open at the top, usually with a rounded tip 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: a) Diameter: 14 mm diameter b) Thickness: 1.3-1.4 mm c) Length: 150 mm long 3. Capacity: 20 ml. 4. With heavy uniform wall thickness, excellent heat resistance. 5. Test tubes must be reusable (not disposable). 6. With large, white enamel marking spot. 7. With permanent graduation of approx. volume and inscriptions in high contrast white enamel. 8. Can withstand heating up to 150°C for normal, standard use service. 9. Comes with a certification from the manufacturer that the test tube is reusable not disposable. 10. Wrapped individually in tissue paper, enclosed in bubble wrap and packed in compartmentalized box. 11. Must be free from breakage, cracks, chipped rims and other defects. 12. Comes with a brand with five (5) years of existence in the glass testing industry.			
17	Vial, screw-neck, 50 ml with screw-type plastic cap) Functional Specifications: Used to hold/contain/store/mix small quantities of samples/solutions/ substances up to 50 ml. Performance Specifications: Must be able to hold/contain/store/mix samples/solutions/substances up to 50 mL. Design Specifications: 1. Type: Wide mouth 2. Shape: Bottle-like shape with a threaded neck, screw cap, polypropylene closure and with a flat bottom 3. Material: Borosilicate clear, transparent, and bubble-free glass with the following dimensions: a) Outside Diameter: 25 mm to 30 mm b) Length: 100 mm to 108 mm 4. Capacity: 50 ml With screw-type plastic cap 5. Shape of neck: Cylindrical, round 6. Neck finish: Continuous thread 7. Cap Color: Black/White 8. Cap Attached: No 9. Cap Material: Polypropylene (plastic) 10. Closure style: Solid top, screw thread cap 11. Neck size: 24-400 12. Cap liner: foam lined 13. Packed individually in a compartmentalized box 14. Must be free from breakage, cracks, chipped rims and other defects 15. Comes with a brand	5pcs		
18	Watch Glass, Ø 90 mm Functional Specifications: Used to: a) cover glasswares like beakers b) evaporates solvents in a sample and c) hold/contains liquids and solids prior to heating. Performance Specifications: Must be able to a) cover glasswares like beakers b) evaporate solvents in a sample and c) hold/contain liquids and solids prior to heating. Design Specifications: 1. Shape: Circular concave 2. Material: Borosilicate, clear and bubble-free glass with the following dimensions: a) Diameter: 90 mm ± 1 mm b) Thickness range: 1.5 mm to 2 mm 3. Fine-polished rims/edge. 4. Individually wrapped in used newspaper, enclosed in a bubble wrap, and packed in a sturdy box. 5. Must be free from breakage, cracks, chipped edges and other defects 6. Comes with a brand	5pcs		

19	Set of Tools: Ball Peen Hammer, handle length is 11-inch, 350g approx. weight, 1 pc/set Functional Specifications: Used to peen dent surfaces in metals Performance Specifications: Should be able to to peen dent surfaces in metals Design Specifications: Ball Peen Hammer, handle length 11 inches, 350 grams gross weight approx. 1 pc./set	10 sets each	
	Set of Tools: Long Nose Pliers, 6-inch, 1 pair/set Functional Specifications: Used to bend tiny solid wire connectors Performance Specifications: Should be able to bend tiny solid wire connectors Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set		
	Set of Tools: Mechanical Wire Cutter and Pliers, 6.5-inch, 1 pair/set Functional Specifications: Used to bend large wires Performance Specifications: Should be able to bend large wires Design Specifications: Mechanical-Wire Cutter and Pliers, 6 1/2 inches, chrome vanadium material, 1 pair/set		
	Set of Tools: Precision Screwdrivers Set, 6 pcs/set, with plastic casing, 1 set/set Functional Specifications: Used to drive precision screws Performance Specifications: Should be able to to drive precision screws Design Specifications: Precision Screwdrivers Set, 6 pc. (3 phillips flats)/set, with plastic casing, 1 set		
	Set of Tools: Screwdriver, flat, 6-inch, 1 pc/set Functional Specifications: Used to drive flat head screws Performance Specifications: Should be able to drive flat head screws Design Specifications: Screwdriver flat, 3/16 inches tip width x 6 inches long, chrome vanadium material, 1 pc./set		
	Set of Tools: Screwdriver, Phillips, 6-inch, 1 pc/set Functional Specifications: Used to drive philips type screws Performance Specifications: Should be able to drive philips type screws Design Specifications: Screwdriver, Phillips, Point size blade #3 x 6" long, chrome vanadium material, 1 pc/set		
	Set of Tools: Soldering Iron, 60 watts, 1 pc/set Functional Specifications: Used to heat electrical contacts permanent joints Performance Specifications: Should be able to heat electrical contacts for permanent joints Design Specifications: Soldering Iron, 60 watts, small type, wood handle, 1 pc./set		
	Set of Tools: Soldering Lead, Ø1mm, Grade 60/40, Wt.: 1 lb/spool, 1 spool/set		

	Functional Specifications: Used to provided permanent joint for different electrical components Performance Specifications: Used to provided permanent joint for different electrical components Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1 lb./spool, 1 spool/set Set of Tools: Soldering Paste, 50 grams/can, 1 can/set Functional Specifications: Used to provide better adhesion of solder lead to electrical joints Performance Specifications: Used to provide better adhesion of solder lead to electrical joints Design Specifications: Soldering Paste, all purpose flux, non-corrosive, 50 grams/can, 1 can/set Set of Tools: Tweezers, stainless steel, with curved tips, 6.5-inch long, 1 pair/set Functional Specifications: Used to hold and pick tiny electronics components Performance Specifications: Used to hold and pick tiny electronics components Design Specifications: Tweezers, stainless steel, with curved tips, 6 1/2 inches long, 1 pair/set		
20	Pipette, Beral, 1 ml Functional Specifications: Used to transfer/dispense liquid samples. Performance Specifications: Must be able to transfer/dispense liquid sample up to a volume of 1 mL. Design Specifications: 1. One-piece pipette, made from flexible soft non-toxic plastic that has a protuberance on top that serves as liquid retention chamber 2. Capacity: 1 mL in 0.25 mL grad interval 3. No rubber head 4. Total length range: 140 mm - 150 mm 5. With molded graduations	5pcs	5pcs
21	Gloves, Hand, super nitrile	5pairs	5pairs

Functional Specifications: Used to protect hands against mechanical risks, microorganisms, chemical burns and splashes. Performance Specifications: Must be able to protect hands against mechanical risks, microorganisms, chemical burns and splashes. Design Specifications: 1. Shape: Slightly curved fingers and forward-facing thumb correspond to the natural position of the hand (hand-shaped). 2. Material: Super nitrile, reusable with the following dimensions: a) Length of gloves: 13 inches (330.2 mm) min b) Thickness: 0.38 -0.52 mm (min) 3. Color: Green 4. Size: 8 5. Interior finish: Flocklined interior (acid/solvent resistant) 6. Exterior finish: Smooth 7. Cuff type: Rolled beaded 8. Latex free to suit those with latex allergies 9. Non-slip wear resistant high elasticity, waterproof 10. Puncture resistant 11. With detailed imprints on each glove, on the following: a) the glove size/s b) the name of manufacturer c) nitrile, flocklined d) individual manufacturing lot e) with pictograms for certification category requirements CE 0334 (EN 420, EN 388, EN 374) designed for protection against mechanical risks, chemical risks, and micro-organisms 12. Individually packed in resealable plastic bag 13. Comes with a brand	
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MANNER OF PAYMENT

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

I hereby commit to comply with all the above requirements.

Name of Company/Bidder

Signature over Printed Name of Bidder

Date

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

Item No.	Description	Quantity	Statement of Compliant
1	Meterstick, Plastic 1. Material: Plastic; 2. Thickness: 6 mm (minimum); 3. Width: 24 mm (minimum); 4. Length: 1,000 mm; 5. The front is scaled in centimeters, numbered in every centimeter with 0.1 cm (or 1 mm) divisions; 6. The back is scaled in inches, numbered in every inch with 1/8 inch divisions; 7. The numbers and division lines are in dark color; 8. Must be straight and flat; and free from toxic materials; 9. Edges and Surfaces should be smooth and even; 10. Comes with plastic jacket; 11. Standard abbreviation of the measurement unit/s must be followed; and	130pcs	
2	Protractor (for student) 1. Protractor, student-type, plastic, transparent, semi-circular, 180°; 2. Ø150mm (or 75mm radius), 1mm thick (minimum); 3. Angular graduations are in degrees, from 0° to 180°. With two (2) sets of numerals, one reading clockwise and the other reading counterclockwise; 4. Linear graduations are in millimeters, from 0 to 100mm; 5. With a hole at vertex point enough for a fine string to pass through it; 6. Plastic Surface Finish: Smooth, clear, and free from scratches; 7. It must be horizontally level when laid flat on a table - no warping; 8. Comes with a plastic case; and	585pcs	
3	Ruler, Plastic, 12 inches or 30 cm 1. Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum); 2. Approximate Width x Length: 28 mm x 314 mm; 3. Graduations: Metric graduations on one side while English graduations on the other side: * Metric graduations are in centimeters, from 0 cm to 30 cm, with every cm subdivided by 10; * English graduations are in inches, from 0 inches to 12 inches, with every inch subdivided by 16; 4. Clear, readable black, non-groove permanent prints (will not fade and cannot be scratched off); 5. Bendable up to U-shape when held at both ends; and 6. The item shall be free from toxic materials.	585pcs	
4	Tape Measure , 1.5 Meters 1. Tape Measure, 12 mm width x 1.5 meter long 2. Made of flexible fiberglass fabric with metal end pieces 3. Color: White with black graduation markings 4. Graduation: in cm on one side and inches on the other side, smallest graduation in mm, on the opposite side in 1/16 of an inch 5. Comes with a plastic case.	585pcs	

5	Calculator, Scientific 1. Display: LCD, 2 line(s) X 10 characters (minimum), stably shows input-expressions/equation, calculation result, and various indicators; 2. Built-in functions not less than 240 inclusion of the following: a) Basic Calculations: arithmetic, fraction, percentage, degrees, minutes, seconds, radian (including conversion of the mentioned Basic Calculations); b) Memory calculation, Logarithm and Hyperbolic functions; c) Statistical functions (e.g.: Statistical relationships, standard deviation, Permutation, Combination, etc.); and d) Trigonometric functions: sin, cos, tan, sin ⁻¹ , cos ⁻¹ , tan ⁻¹ ; 3. Basic keys and function keys are labeled permanently (resistant to finger rub and light acid (vinegar) contamination) and operates as such correspondingly; 4. Power requirement: two way dual (battery, built-in solar system), the unit consistently operational after replacing the battery for three (3) hrs solar system powers the unit normally in a well lit room without the battery; 5. Brand must be established in providing quality products for five (5) years and up.	130pcs	
6	Stopwatch, digital 1. Digital type, water-resistant (5-bar) 2. Start, stop, and re-set operations 3. Display Number: 4mm W x 10mm H 4. Measure Unit: 1/100th of a second 5. Working Range: up to 23hr 59min 59sec 6. Individually and properly packed in a box. 7. Instruction Manual in English 8. Approximate W x H x T: 60mm x 67mm x 20mm 9. Ready to use and comes with extra batteries.	29pcs	

MANNER OF PAYMENT

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

I hereby commit to comply with all the above requirements.

Name of Company/Bidder

Signature over Printed Name of Bidder

Date

Technical Specifications
(Re-Bidding) Supply and Delivery of TVL Learning Tools and
Equipment
Lot 3

A. SMAW

Item No.	Description	Quantity	Statement of Compliant
1	TIG/MIG/ ARC 3 in 1 Welding Machine with complete nozzle accessories, inverter, 300A, with snap and grip	4 sets	
2	ARGON Tank with regulator (with content), 9" in diameter, 300 CF, 100lbs when empty	2 sets	
3	Mechanical Pliers Tong	10 pcs	
4	Ball Deen Hammer 10 Oz'	10 pcs	
5	Tinner Snips 14"	10 pcs	
6	Pipe Wrench 14"	10 pcs	
7	Oxygen Acetylene Tank with content, 50 lbs, 9" diameter, 12 cubic ft, with complete accessories and regulator	2 sets	
8	SMART TV 55" Specification: 55" Smart UHD 4K Ultra High Definition (UHD) 3840x2160; 4K AI Upscaler; 4K HDR10	2 units	

B. Electronics

Item No.	Description	Quantity	Statement of Compliant
1	Hot air Rework soldering station Specification: Hot Air SMD Rework Soldering Station Work environment 0-40; Temperature range 100-500; Gas flow 120L/min (max)	4 units	
2	SMART TV 55" 55" Smart UHD 4K Ultra High Definition (UHD) 3840x2160; 4K AI Upscaler; 4K HDR10	1 unit	
3	Digital Multi-tester Specification: Digital Tester Meter, 800A, 4000 counts Multimeter, AC/DC Voltage Resistance, powered by 2 pcs 1.5V AA batteries (included)	4 units	
4	Drill Specification: Professional Cordless 12Volts Portable Drill Heavy Duty, 1 Battery + BMC Box, Extra 32 Accessories with carrying hardcase	2 units	
5	Blower Specification: Blower Power Tool, 220 V	2 units	

	Heavy Duty Leaf Air Blower with dust bag and accessories set, 820 W		
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C. Housekeeping

Item No.	Description	Quantity	Statement of Compliant
1	Coffee Maker Specifications: 1000W, 230V, Aluminum, 175 x 275 x 323mm, 1.5kg	1 unit	
2	Electric kettle Specifications: 1400W, 230V, 150 x 110 x 220mm, Inner material: Aluminum, Housing Material: Plastic	1 unit	
3	Carpet sweeper Specifications: All-in-One Sweep Drag Household Hand Push 360 Degree Rotating Sweeping Broom, Room and Office Floor Sweeper Cleaner Dust Mop	2 units	
4	Vacuum cleaner (dry and wet) Specifications: 1400W Flexio Power wet and dry vacuum cleaner, 3-in-1 vacuum with wet, dry and blow functions. Accessories stored on board for efficient, easy access. 360° rotation for ease of use and stable handling. Accessories included: 3	1 unit	
5	Polisher (electric with complete accessories) Specifications: Size: 16 Inches (406) Underside Size: 40.6 cm with Bumper Handle Size: 1m Adjustable Stainless Tube Cord: 13.5 Meters Royal Cord Motor: 3/4 HP 220V 60 Cycles Brush Speed: 175 RPM Consumption: 0.559kw/559 watts	1 unit	
6	Washer with dryer Specifications: 8.0kg washing capacity / 4.6kg spin dry capacity 15 minutes wash timer 5 minutes spin dry timer 2 washing programs (gentle and soft) Drain selector Detachable wash tub cover Water inlet access in wash tub and spin dry tub Lint filter Wash - 370 watts Spin - 135 watts IP x 4 Ingress Protection Rating LXWXH: 83 x 47 x 86 cm	1 unit	
7	Flat iron Specifications:	2 unit	

	With pilot lamp indicator With thermal fuse protection Easy temperature settings		
8	Ironing Board Specifications: *Size: Small, Medium, Large *L: 12" W: 12" H: 46" [Small and Medium Folded] *L: 12.25" W: 14" H" 49" [Large Folded] *HEIGHT (IN USE) 30"/32"/33.5" *BOARD SIZE: (LENGTH) SMALL: 29.5"; MEDIUM: 35"; LARGE: 39.5" *IRONING BOARD SPAN (IN USE) S: 37"; M: 42"; L: 49" *Collapsible feature for easy storage *Material: Steel Tubes, Particle Board, Pongee Fabric *PolyEthylene (PE) coated finish for long lasting color	2 unit	
9	Steam pressers Specifications: Lightweight & portable, small size for one hand to hold. - Adopts SteamPlus technology, 1200W powerful steam, care of the clothes and effectively removing the wrinkle of clothes. - Highly efficient penetration into clothing, 22g/min steam with high temperature and pressure for 7-8 minutes ironing. - Equipped with aluminum alloy steam nozzle, ceramic glaze and anion panel for secondary heating, the cleaner can make more strong steam. - Micro pressurized steam, not easily leaking water, fast steam output, further spray distance, wide steam coverage.	2 unit	

D. SMAW

Item No.	Description	Quantity	Statement of Compliant
1	Tape Measure plastic, tape measure	10pcs	
2	Hip Curve wooden, hip curve	10pcs	
3	Meter Stick wooden, meter stick	10pcs	
4	French Curve wooden, french curve	10pcs	
5	Pinking Shears Size:24*9cm (approx)	10pcs	
6	Scissors Sharp Stainless Steel Tailor Scissors with Cover Heavy Duty Sewing Fabric Scissors	10pcs	
7	Cutting Shears	10pcs	

	Soft-grip handles for comfortable use; can be used left- or right-handed. Perfect for the home or the office. For cutting paper, cardboard, fabric, photos, and more. Material: Stainless Steel Quality: Top high-quality		
8	L-Square wooden, L square	10pcs	
9	Transparent Ruler with grid	10pcs	
10	Basin and Pail multipurpose, LARGE: 28*12cm	10pcs	
11	Sewing Box with kit Sewing Kit Needle Box Set 10 in1 Household Sewing Tools Portable Sewing Kit	10pcs	
12	Tracing Wheel plastic, tracing whell	10pcs	
13	Hanger plastic hanger	10pcs	
14	Screw Driver Flat (medium)	10pcs	
15	Screwdriver Flat (Small)	10pcs	
16	Triangle 16" 45" x90"	10pcs	
17	Hand Spray plastic, hand spray	10pcs	
18	Seam Ripper Plastic Body with Cap Cutlery Steel - Long Lasting Sharpness Plastic Ball on Short Finger to protect fabric	10pcs	
19	Working Table 8' Folding Table Seats up to 10 Adults 661 lb. Static Load Capacity 1.75" Thick Granite White Top is waterproof, impact and stain resistant Gray Powder Coated Locking Legs with protective floor caps Legs fold underneath top for flat storage	2 pcs	

MANNER OF PAYMENT

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

I hereby commit to comply with all the above requirements.

Name of Company/Bidder

Signature over Printed Name of Bidder

Date

Dr. Pancho emphasized that for each item in the Table of Specifications, the bidder should write the word **"COMPLY"** on the 3rd column or the Statement of Compliance.

✓ Section VIII. Checklist of Technical and Financial Documents

Dr. Allan Pancho also comprehensively discussed the different documents to be submitted at the Opening of Bid Conference.

I. Technical Component Envelope (1st Envelope)

Class "A" Documents

Legal Documents

- Valid PhilGEPS Certificate of Registration Certificate under Platinum Membership (all pages) in accordance with Section 8.5.2 of the IRR; (new and revised/updated as per GPBB Resolution No. 15 s. 2021)

Technical Documents

- Statement of the prospective bidder of **all its ongoing government and private contracts**, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid. (Sec. 23.1(a)(iv), IRR of RA 9184)
 - Supporting documents: copies of the corresponding notices of award and/or notices to proceed and/or contracts/ purchase order.

* If the bidder has received the Notice of Award of a certain project, this document is required.

- Statement of the bidder's Single Largest Completed Contract (SLCC) must be equivalent to 5% and completed within 5 years relevant period prior to the opening and submission of bids
 - Must indicate a single contract, similar to the contract to be bid in the amount equivalent to at least 25 % of the ABC to be bid pursuant to Section III, BDS Clause 5.4 or
 - Completed at most two (2) similar contracts, the aggregate amount of which should be equivalent to at least 25% in case of expendable supplies of the ABC for this project, and the largest of these similar contracts must be equivalent to at least 50% of the ABC as required above.
 - Supporting documents are the following:
 - c.1. copy of the corresponding notices of award or notice to proceed/purchase order/contract; and
 - c.2 end user's acceptance or official receipts or sales invoice issued for the contract

AND

- Original copy of Bid Security.
The bidder has the option to submit either:
 - If in the form of a Surety Bond, submit a certification issued by the Insurance Commission:
- OR**
- Original copy of the Notarized Bid Securing Declaration Conformity with the Technical Specifications (Section VII);
 - The bidder must state/write the word "COMPLY" in all the items. Do not additional requirements.

AND

- Conformity with the Technical Specifications (Section VII),
- Conformity Schedule of Requirements (Section VI) must be signed and
- Original Duly signed Omnibus Sworn Statement (OSS) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative, or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder

Financial Documents

- Net Financial Contracting Capacity (NFCC)
 - must be equivalent to the ABC of the project
 - For goods and infrastructure projects, the NFCC's K factor shall be **fixed at 15**, regardless of the amount of the contract

OR

- Committed Line of Credit (CLC)
 - if the NFCC is lower than the ABC of the project
 - from universal or commercial bank, in lieu of its NFCC computation. (Sec. 23.1 (a) (viii), 2016 IRR of RA 9184)

Class "B" Documents

- If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence.

OR

- Duly notarized statements from all the potential joint venture partners stating that they will enter and abide by the provisions of the JVA in the instance that the bid is successful.

Dr. Pancho reminded the bidders on the procedure in preparing the documents for the Technical Component envelope. Place the original copies of all the documents in one folder and prepare additional/second copies of the same documents in another folder. Put these 2 folders (original and additional copies) inside a BIG ENVELOPE, sealed and marked.

II. Financial Component (2nd Envelope)

- Original of the duly signed and accomplished Financial Bid Form,
 - Dr. Pancho also emphasized that the bidder should sign each and every page of the Bid Form. Failure to sign in every page is a ground for disqualification unless the Bid Form has only one page. The amount in words and figures should jive with each other.
- Original of duly signed and accomplished Price Schedule
 - All columns should have an entry. Write dash or zero in a column if the bidder plans not to charge the government for a particular item. Do not leave a column blank for it is a ground for disqualification for being non-responsive.
- The Financial Component envelope also contains 2 copies: 1 original and 1 second /additional copy of the documents. Place the original copy in 1 folder and the additional copy in another folder. Put the 2 folders in one BIG ENVELOPE, also sealed and marked.

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

- Bid Form
- Bid Securing Declaration
- Price Schedule for Goods offered from within the Philippines
- Price Schedule for Goods offered from Abroad
- Contract Agreement Form for the Procurement of Goods
- Omnibus Sworn Statement
- Performance Securing Declaration

Reminder: Bidders are highly encouraged to use the templates provided to minimize errors or omissions in the forms submitted. However, failure to use said templates is not a ground for disqualification, provided that the form submitted includes all the mandatory provisions required in the 2016 revised IRR of RA No. 9184 and its associated issuances and as identified in Item 6 of GPPB Resolution No. 16-2020 published date September 16, 2020.

GPPB Resolution NO. 09-2020 and GPPB Resolution No. 16-2020 is provided in Section VIII of this bidding documents.

- The prospective bidders were enjoined to ask questions/ clarifications.
- The BAC Vice-Chairman also reminded the bidders to provide a Table of Contents to help ensure the completeness of the document and to facilitate smooth evaluation of the documents during the Bid Opening.
- Dr. Pancho thanked the bidders for their interest in joining the pre-bid conference.

There being no more queries and clarifications, the Pre-bidding Conference for the (Re-bidding) Supply and Delivery of Learning Tools and Equipment (LTE) for Science, Mathematics and Technical Vocational Livelihood under SUB-ARO No. OSEC 7-22-0445 adjourned at 12: 03 noon.

Prepared by:


MARILYN E. OPENA
BAC Secretariat Chairman

Noted:


LYRA L. ILAGA, DevEdD
BAC Chairman