

#### Republic of the Philippines

#### Department of Education REGION IX SCHOOLS DIVISION OF ZAMBOANGA SIBUGAY

## REQUEST FOR QUOTATION No.: 2023-09-207

September 19, 2023

Date

#### To: All Eligible Bidders

- 1. Please quote your lowest price inclusive of VAT on the items listed below, subject to the Terms and Conditions of this RFQ. Submit your quotation duly signed by your authorized representative at the DepEd Division of Zamboanga Sibugay, Pangi, Ipil, Zamboanga Sibugay not later than 2 5 SEP 2023
- 2. Term and Conditions
  - a. All entries must be READABLE/ TYPEWRITTEN.
  - b. Please fill up the blank section/ columns (Unit price, total price including the grand total).
  - d. Price validity must be within sixty (60) calendar days.
  - Note: Mayor's Permit and Tax Clearance must be duly authenticated or certified true copy by issuing Agency and PhilGEPS Certification.
  - e. Warranty shall be for a period of six (6) months for supplies and materials, one (1) year for equipment and other services from date of acceptance by the procuring entity.

#### FAILURE TO DO SO WILL MEAN DISQUALIFICATION OF YOUR BID PROPOSAL

3. Quotation that exceeds the Approved Budget for the Contract (ABC) shall be automatically disqualified.

Note: The Head of the Procuring Entity reserves the right to review the quotation of the bidders and reject any and all bids, declare the failure of the procurement processat any time prior to the contract award or not to award the contract pursuant to existing guidelines, without incurring any liability.

Please return in sealed envelope and indicate the RFO number

Item No.	Unit	Item Specification	A TANKE (10) II	Quantity	Unit Price	<b>Total Price</b>
	pcs	Lamp, Desk, Heavy Base	35 in. length min.	60		
	pcs	Musical Instrument (Miniature Guitar)	mini acoustic type, half size guitar, varnish, Overall length: 33 in., Width: 12 in., depth: 3 1/2 in, standard guitar steel strings (Nos. 1- 6), 18 fret min.	60		
	set	Set of tools:	a product of the tree.	12		
		Ball Peen Hammer	handle length is 11", 350g approx. weight, 1 pc/set			
		Mechanical Wire Cutter and Pliers	6.5", 1 pair/set, chrome vanadium material			
		Precision Screwdrivers Set	6 pcs/set (3 philipps, 3 flats) with plastic casing, 1 set			
		Screwdrivers Flat	3/16 in. tips width x 6 in. long, chrome vanadium material, 1 pc/set	14		
		Soldering Iron	60 watts,small type,wooden handle, 1 pc/set			
		Soldering Lead	1 mm, grade 60/40, wt: 1 lb/spool, 1 spool/set			
		Soldering Paste	50 grams/can, all purpose flux, non- corrosive			
		Twezeers Stainless Steel with curve tips	6 1/2 in. long, 1 pair/set			
	pcs	Beaker Borosilicate (1000 ml)	1000 mL, griffin type, transparent, bubble- free glass, thickness range: 1.5 mm to 2.0 mm, Height range: 140 mm to 160 mm	60		
	pcs	Petri Dish	reusable, circular glass with beaded edge, glass thickness range 2 mm to 2.2 mm,	60		
	box	Glass Cover Slips 100's/box	100's/small plastic box, Dimension: 22 mmx22 mm square, Thickness: 0.13 mm- 0.17 mm	120	1 10	
	box	Glass Slides 72's/box	clear, flat glass, no color, no frost, Dimension: 75 mm x 25 mm	120		
	pes	Protractor, student type	plastic, transparent, semi-circular, 180°	480		

1			plastic, transparent, 1mm thick (min.),clear, readable black, non-groove	480		
	pes		permanent prints, bendable up to U-shape	400		
2	pcs	D 1 D 21 4 (100 D	Griffin, low form, cyclindrical container with straight sides, flat bottom w/ small spout, H: 70 mm-72 mm, Thickness: 1.5 mm-2.0 mm	60		ř
	pcs	Beaker Borosilicate (500 ml)	Berzellius, tall form cyclindrical container with straight sides, flat bottom w/ small spout, H: 136 mm-140 mm, Thickness: 1.5mm-2.0mm	60		1.
distriction of the second	pcs	Cork Borers	long, hollow round rod/tube with sharpened ends, Material: Nickel-plated steel borrer with red color handle, a set of 6 different sizes: 4mm, 4.5mm, 6mm, 8mm, 9.5mm, 11mm	12		
	pes	Flask, Volumetric (250 ml)	Class A, roundor pear-shaped bulb, long thin neck topped by snap cap with flat bottom, clear, transparent, Heavy duty rim, H: 225mm, Snap Cap: No. 250,	60		
	pcs	Nichrome Wire 0.4 100 ft.	Soft, rust-free wire, round wire, Nichrome-Alloy of Nickel and chromium, Ni80 Cr20, Diameter:0.4 mm, length: 100 ft	12		
	pcs	pH meter, hand held	portable hand held digital pen type, plastic, length: 6.2 in., width: 1.5 in., Height: 1.3 in., retractable electrode	60		
	pcs	Rubber Stopper #6 for Erlenmayer flask (1 hole)	Cylindrical with tapered bottom end, Premium grade SBR black rubber compound, H: 25mm, Top: 32 mm, Bottom: 26 mm, Hole: 5 mm,	60		
	pes	Triangular File Fine 6 inch	6 in. long, High Carbon Steel, fine and smooth with plastic handle	60		
	pack	Universal pH paper, Ph 0-14, 100 strips/pack	100 strips/pack, rectangle, cellulose/paper based, Length: 69 mm x 6 mm,	12		
		***nothing follows***	Provided the second of the second			
	ABC	111,135.26		Т	OTAL	
Purpose:	Learning	tools and equipment in Science and M OOSEC- 9-23-2442	Sathematics for Public Elementary, Junio			
	g	This is to submit our price quotation indicated above subject to the terms				
Cunnitous 4	Company N	and conditions of this RFQ	The state of the s	Date:		
Suppliers ( Address:	Company N	vaine:		Tel. No.:		
TIN Numb	er:		THE THE PERSON NAMED IN COLUMN 1	Cell. No.:		
		Printed Name		Email Add:		
Supplier's Si	gnature Over	Printed Name:		Fax No.:		



Pangi, Ipil, Zbga. Sibugay
 (062) 333-5492
 zamboanga.sibugay@deped.gov.ph
 depedzamboangasibugay.ph



## Republic of the Philippines **Department of Education**



Bureau of Learning Resources

# Annex "B" - Technical Specifications for LTE-SM (FY 2023)

Project Title Mass Production and Supply of Science and Mathematics Equipment

Packages to Public Elementary Schools for Grades 1 to 3 & Grades 4 to 6,

Public Junior High Schools for Grades 7 to 10, and Public Senior High School

for Grades 11 to 12 (CORE & STEM)

### General Specification

- 1. Must be branded.
- 2. Must be free from toxic materials.
- 3. Must be properly packed.

4. Must be accompanied by a User's Manual written in English with correct grammar,

spelling, and punctuation marks.

5. "Imported products should pass international quality control product standards and have international quality control product markings such as ASQC, AFCIQ, ASQ, DGQ, EOQC, IQA, CE, ISO, ASTM, and the likes, while locally made products (Philippine-made) should pass the local quality control product standards and bear the PS mark."

Item		DESCRIPTION
2.50	LI SERSENGER SELE	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
	na manatana	Design Specifications:
	The state of the s	Heavy base, able to stand by itself     inches length minimum
1	Lamp, Desk, Heavy	
1000	Base	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
	The Tales	Yellow Light bulb
	- 64/8485 (SA) 42-85	6. Capacity: 100 watts
	The second second second	7. Preferable ungrounded plug (If the plug is grounded, an adapte
		should include in the Item.)

Item		DESCRIPTION
		8. With English User's Manual that includes Operation Guide
		9. Should be branded
		Functional Specifications: Used to contain liquids and allow liquids
	0.000	to flow thru spout when overfilled
	10 De 12 10 LEA	Performance Specifications: Should be able to contain liquids and allow liquids to flow thru spout when overfilled
	Beaker, Plastic 500	Design Specifications:
2	mL	1. Material: polypropylene plastic
		2. Capacity: 500 mL Increments: 10 mL
		Text of the control o
		3. Height: 12 cm
		4. Diameter: 8 cm
		5. Must have container box.
		6. Must be free from any toxic material.
	00.7 4 OF T	Functional Specifications: Used to provide 9 volts DC power to digital
	one to	multimeter
3	Dry Cell, 9 volts	Performance Specifications: Should be able to provide 9 volts DC power to digital multi meter
	60,02,0 50.4	Design Specifications: 1. industry standard 9 volts dry cell
	2,000 July 100 July 1	Functional Specifications: Used to demonstrate musical application of standing waves
	10.5 0.4(1) 10.005.	Performance Specifications: Should be able to demonstrate musical application of standing waves
	0x001	73 Feedback and effective person in a Samuel Man. 23
4	Musical Instrument (Miniature Guitar)	Design Specifications:  1. Mini acoustic type, half-size guitar, any color, surface finish
		varnish
	00.000	<ol> <li>Made of good quality wood without sign of warp</li> <li>Minimum dimensions: Overall length: 33 inches, Width:12 inches</li> <li>Depth: 3 1/2 inches</li> </ol>
		4. Standard guitar steel strings (Nos. 1-6), 18 fret minimum
5	SET OF TOOLS:	
J	SET OF TOOLS.	n 11 10 18 41 II-1 1-1-1
5	Set of Tools: Ball Peen Hammer, handle length is 11" 350g approx. weight	Isulfaces in include
	1 pc/set	Design Specifications: Ball Peen Hammer, handle length 11 inche 350 grams gross weight approx., 1 pc. /set

Item		DESCRIPTION
		Functional Specifications: Used to bend tiny solid wire connectors
5	Set of Tools: Long Nose Pliers, 6", 1 pair/set	Performance Specifications: Should be able to bend tiny solid wire connectors
	randin Peleban Delante Com Reconstitut on And	Design Specifications: Long Nose Pliers with side cutter, 6 inches long, chrome vanadium material, 1 pair/set
at to maleuro	a mentaphyrol para gazialiani č	Functional Specifications: Used to bend large wires
wol mus A	Set of Tools: Mechanical Wire Cutter and Pliers, 6.5", 1 pair/set	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  Functional Specifications: Used to drive precision screws
	Set of Tools:	mathetic language and the precision services
5	Precision Screwdrivers Set, 6 pcs/set, with plastic	Performance Specifications: Should be able to to drive precision screws
	casing, 1 set/set	<b>Design Specifications:</b> Precision Screwdrivers Set, 6 pc. (3 phillips, 3 flats)/set, with plastic casing, 1 set
5	Set of Tools: Screwdriver, flat, 6", 1 pc/set	Performance Specifications: Should be able to drive flat head screws  Screws
	col District Supericondent.	<b>Design Specifications:</b> Screwdriver flat, 3/16 inches tip width x 6 inches long, chrome vanadium material, 1 pc. /set;
		Functional Specifications: Used to drive phillips type screws
5	Set of Tools: Screwdriver, phillips, 6", 1 pc/set	Performance Specifications: Should be able to drive phillips type screws
		<b>Design Specifications:</b> Screwdriver, Phillips, Point size blade #3 x 6" long, chrome vanadium material, 1 pc/set;
		Functional Specifications: Used to heat electrical contacts for permanent joints
5	Set of Tools: Soldering Iron, 60 watts, 1 pc/set	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:	Functional Specifications: Used to provided permanent joint for different electrical components

Item		DESCRIPTION
5	Ø1mm, Grade 60/40, Wt.: 1	Performance Specifications: Used to provided permanent joint for different electrical components
	lb/spool, 1 spool/set	Design Specifications: Soldering Lead, Ø 1 mm, Grade 60/40, weight: 1 lb./spool, 1 spool/set
CM -ore	1.20, 2023 critical des Division divisator o	Functional Specifications: Used to provide better adhesion of solder lead to electrical joints
5	Set of Tools: Soldering Paste, 50 grams/can, 1 can/set	Performance Specifications: Used to provide better adhesion of solder lead to electrical joints
	2000 Dien Office 2000 750.00	Design Specifications: Soldering Paste, all purpose flux, nor corrosive, 50 grams/can, 1 can/set;
	Set of Tools:	Functional Specifications: Used to hold and pick tiny electronic components
5	Tweezers, stainless steel, with curved tips, 6.5" long, 1	Performance Specifications: Used to hold and pick tiny electronic components
	pair/set	<b>Design Specifications:</b> Tweezers, stainless steel, with curved tips, 1/2 inches long, 1 pair/set;
	TV CERT AND AT TABLE	Performance Specifications: Must be able to serve as container for mixing and for heating liquids.  Design Specifications:
6	Beaker, borosilicate,	<ol> <li>Griffin type, borosilicate, transparent, bubble-free glass</li> <li>Shape: a cylindrical container with flat bottom</li> <li>Thickness range: 1.5 mm to 2.0 mm</li> <li>Permanent white graduations, with white enamel marking spot</li> </ol>
		5. Features an easy-pour spout 6. Capacity: 1000 mL; ± 10% enameled onto the glass 7. Single graduated metric scale 8. Graduation starts at 200 mL in 100 mL increments
		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
		Functional Specifications: Used to secure the specimen under study.
		Performance Specifications: Must be able to secure the specime under study.

Item		DESCRIPTION
7	Dish, Petri	Design Specifications:  1. Reusable, borosilicate, circular glass with beaded edge;  2. Bubble-free, plain surface  3. Outside Diameter of Cover: 100 mm±2 mm;  4. Outside Diameter of Dish: 92 mm ± 2 mm;
Anomalian Anomalian Input	Cam Remierinten en Am Meurinsten Evaluation Megris Per Orlea 200.00 150,001	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  Functional Specifications: Used to secure the wet mount sample specimen.
	09.005	Performance Specifications: Must be able to secure the wet mounted sample specimen.
8	Glass Cover Slips, 100's/box	Design Specifications:  1. Pre-cleaned cover glasses and not sticking from each other  2. Material: Transparent glass
	2.13	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
	indicativents selected to the control of the contro	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.
9	Glass Slides, 72's/box	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
ALL OF THE PARTY O		Functional Specifications: Used to measure angles in degrees.  Performance Specifications: Must be able to draw/construct an measure angles and arcs up to 180°.

Item		DESCRIPTION
25022	and the second s	Design Specifications:
		1. Protractor, student-type, plastic, transparent, semi-circular, 180°;
10  (f.)) no see	Protractor, student- type	<ol> <li>Ø150mm (or 75mm radius), 1mm thick (minimum);</li> <li>Angular graduations are in degrees, from 0° to 180°. With two (2) sets of numerals, one reading clockwise and the other reading counterclockwise;</li> <li>Linear graduations are in milimeters, from 0 to 100mm;</li> <li>With a hole at vertex point enough for a fine string to pass through it;</li> </ol>
intel <sup>®</sup>	ne'l viogani	6. Plastic Surface Finish: Smooth, clear, and free from scratches;
neu l	200 00 750,00	7. It must be horizontally level when laid flat on a table - no warping;
Nece	100000	8. Comes with a plastic case; and
5000	00.003	Functional Specifications: Used to measure length and draw straight lines
	BETA D. LEBDA	Performance Specifications: Must be able to measure length of objects in flat surfaces up to 30cm in Metric and 12" in English standards of measurement.  Design Specifications:
11	Ruler, Plastic, 12 inches/30 cm	<ol> <li>Ruler, plastic, transparent, smooth surface, and 1 mm thick (minimum);</li> <li>Approximate Width x Length: 28 mm x 314 mm;</li> <li>Graduations: Metric graduations on one side while English graduations on the other side:</li> </ol> *Metric graduations are in centimeters, from 0 cm to 30 cm,
		*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);
		<ul><li>5. Bendable up to U-shape when held at both ends; and</li><li>6. The item shall be free from toxic materials.</li></ul>
		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 up to 100 mL capacity and heats them over a Bunsen burner's flame up to more than 150°C for normal, standard use service
		Design Specifications:

em		DESCRIPTION
		1. Type : Griffin, low form
		2. Shape: Cylindrical container with straight sides, a flat bottom
- 1		and with a small spout (or "beak") to aid in pouring
1		3. Material: Borosilicate, clear and transparent bubble-free glass
1		with the following dimensions:
		a) Outside diameter : 50 mm-52 mm
	Beaker, borosilicate,	b) Height: 70 mm-72 mm
12	100 mL	c) Thickness: 1.5 mm-2.0 mm
1		4. Capacity: 100 mL ± 5% etched onto the glass;"
	Chesters MOOE	5. Graduation starts at: 20 mL in 10 mL increments.
		TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER
	Et-ant-M	6. Graduation range: 20 mL to 80 mL
	ti Cost Total Cost	volumes, inscriptions
		8. With large white marking spot
00.00	250,60 (2,	9. Features an easy-pour spout
		10. With single graduated metric scale
		11. Can withstand heating up to 200-230°C for normal, standar
		use service (CERE AL MED) F and 745
50.00	245.00 12	12. Wrapped in paper, enclosed in bubble wrap, and packed in
00,00	250.00	compartmentalized box
00.00	250.00	13. Must be free from breakage, cracks, chipped rims and other
		defects
		14. Comes with a brand, with five (5) years existence in the glas
		wares industry
		Functional Specifications:  a)Used to contain/hold/prepare solids and liquids during chemic
		reaction and to heat them over a Bunsen burner's flame up to 150°
		for normal, standard use service and
	(1)	b)to serve as a water bath when heating flammable chemical
		instead of an open flame to prevent ignition.
	EMILINTAL)	
		Performance Specifications:
		a) Must be able to contain/hold /prepare solids and liquids during
		chemical reaction and heats them over a Bunsen burner's flame u
		to 150°C for normal, standard use service and to serve as a wat
		bath
		b) to serve as a water bath when heating flammable chemical
		instead of an open flame to prevent ignition.
	PATANJEL CESO VI	Design Specifications: 1. Type: Berzellius, tall form
		2. Shape: Cylindrical container with straight sides, a flat bottor
	heliden Superielenden	with a small spout (or "beak") to aid pouring
		3. Material : Borosilicate, clear, bubble free glass , Berzellius. ta
	Dealer beregilisete	form with the following dimensions:
	Beaker, borosilicate	October Diameter Banga 175 mm 80 mm
13	500 mL	a) Outside Diameter Range :75 mm- 80 mm

Item		DESCRIPTION
		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
	Appendix 60	8. Double graduated metric scale
		9. Marked to fill: Graduation starts at 50 mL in 50 mL increments
	d Chatery MOOE	10. Marked to empty: Graduation starts at 0 mL in 50 mL increments
	t4-dun-23	11. Can withstand heating up to 200-230°C for normal, standard
		use service
	nit Cost Total Cost	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
	250.00	defects
		14. Comes with a brand, with five (5) years existence in the glass
		wares industry
		Functional Specifications: Used to bore or to cut a round hole of
	245.00 12.1	six different diameters in a cork/rubber stopper with a steel
		ramrod/eject rod pushing the removed cork out of the borer
	250.00	92
		Performance Specifications: Must be able to bore or to cut a round hole of six different diameters in a cork or rubber stopper and remove cork out of the borer by pushing it with a steel ramrod/ejectrod
		Design Specifications:
	(ip	1. Shape of cork borer: Long, hollow round rod/tube with sharpene
	The same of the sa	ends 2. Material of tube/rod: Nickel-plated steel borer
14	Cork borer	3. A set of six (6) different diameter sizes: (4 mm, 4.5 mm, 6 mm,
		mm, 9.5 mm, 11 mm)
		4. Comes with a handles which are individually and permanently numbered (1-6) for easy identification handle
		a) Shape of handle: T-shaped
		b) Material of handle : Hard plastic
		c) Finish: Smooth
	P. BATAN JR., CESO VI	d)Color of handle: Red
		5. Includes a ramrod/eject rod pushing the removed cork out of the borer Material of ramrod/eject rod: Steel
	Division, Superintendent	6. Packaging: Resealable plastic pouch
		7.Comes with a brand
-		Functional Specifications: Used to measure/prepare/contain
		precise volume of standard solutions at a certain temperature an
	1	precise dilution of solutions up to 250 mL

	A CONTRACTOR OF STREET AND STREET	DESCRIPTION
Item		
	TI SE TON OF STREET, S	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
15	Flask, Volumetric, borosilicate 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.
	A SANCE OF	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
	Part Committee of the C	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
		Functional Specifications: Used as a wire loop and heating element on which a metal salt or solid ionic compound is made adhere into it and is heated to emit a characteristic color on the Bunsen flame to identify the particular metal present in the compound

PRESIDENSIA NAMED		DESCRIPTION
tem	a h t	reformance Specifications: Must be used as a wire loop on which metal salt or solid ionic compound is made to adhere to, and is neated 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
		- 18 - Alexand
		Design Specifications:
16	100 ft	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
	8	3. Form: Soft, rust-free wire
		4. Color: Silvery grey
	1 1	5. Resistance : 2.57 ohms/foot
		C Assembled noft
		7. Perfectly tensioned. Zero elongation, scratches, or other flaws.
		8. Comes in a spool
		9. Packed in a resealable plastic pouch
	5	ish a broad
	100	Functional Specifications: To measure the pH of a substance of solution indicating its acidity, being neutral, or its basicity/alkalinity in 0.1 pH readability
	5	Performance Specifications: Must be able to measure the pH of each substance/solution in 0.1 pH readability,:
	1 1 1 2	a) For an acid: pH 0- pH 6.0
		b) For basic/alkaline: pH 8.0 to pH 14.0.
	All	c) For neutral (distilled water): pH 7.0
		- Granifications
		Design Specifications:  1. Type: Portable hand held digital pen type
		2. Material : Plastic with the following dimensions :
		a) Length: 6.2 in (155.45 mm) (min)
		b) Width: 1.5 in (38.1 mm) (min)
		c) Height: 1.3 in (33.02 mm) (min)
	9	3. With retractable electrode
		4. Comes with one (1) pc protective cap
1	1 - 1 - 19 1	5. Electrodes extend up to 3.15" (80.01 mm) (min)
	3	6. Waterproof 7. pH range: pH 0 to pH 14

Item		DESCRIPTION
		8. Accuracy: ± 0.2 pH
	336	9.Features a bold LCD display of pH
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10. With automatic temperature compensation
		11. Supplied with accessories:
		a) One (1) bottle pH 7.0 buffer solution Capacity of pH 7.0 buffer
		solution: 50 mL
		b) With one (1) pc calibration screwdriver
17	pH Meter, hand-held	c) One (1) pc 9V battery
		d) Packed in hard plastic carry case
		12. Manufacturer should be accredited by NIST standards or its
		equivalent to the country of origin to certify that their items are
	1 1 8	calibrated.
		13. With User's Manual in English
		14. With Student Worksheets/Teacher's Manual in English
		15. For numbers 13-14, the following technical specifications from a
		e must be followed:
		a) For Contents List of materials, In Table form
CREEK, ARD CHRESHAVE A		b) For User's Manual, Teacher's Guide, StudentWorksheets,
		Instruction
		Sheets/Assembly Guides, In sentences format
		i) With sentences grammatically correct and
		ii) With correct spelling and terminologies, punctuations and others
	1	c) In original print, not photocopied
		d) In colored pictures, drawings/illustrations
		e) In ten (10) mil laminated keycard that shall containthe actual
		colored picture of the model including the name: labeled with the
		required parts with details as follows
		i) Paper Size: A4 size , 80 gsm
		ii) Font: Times New Roman
		iii) Font size: 12
		iv) Orientation:Portrait
		v) Margins on all sides with 2 point width border line
		vi) Line with arrow head of 1.25 point with width shall point to the
		specifi part being labeled
		16. Must be free from sharp edges
	- P	17. Must have a brand
		Functional Specifications: Used to seal the openings of narrow
		mouth 250 mL Erlenmeyer flasks and other laboratory glassware
	2	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, hazard
		and containmation.

tem		DESCRIPTION
18	Rubber Stopper # 6 for Erlenmeyer Flask (narrow-mouth) 250	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:
13	mL, 1 hole	Shape: Cylindrical with a tapered bottom end     Material : Premium grade SBR black rubber compound with the following dimensions:
		a) Height: 25 mm b) Top Ø: 32 mm
		c)Bottom Ø : 26 mm
		d) Hole Ø: 5 mm
		<ul><li>3. Number of holes: With one (1) hole</li><li>4. Dimension tolerance on height, top and bottom diameter: ± 0.3</li></ul>
		5. Hardness: 40 ± 5 Duro
		6. Packed in resealable plastic bag
		7. Comes with a brand
		that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer, glass tubing or stirrer for use during chemical reaction to prevent leaks hazards and contamination.
	Date Ondinue for a	Performance Specifications: Must be able to seal the openings of narrow mouth 250 mL Erlenmeyer flasks and other laboratory
	ing Statement John Markins Joseph Markins Markins Joseph Markins M	glassware that require a tighter seal or a greater degree of chemical resistance with two (2) holes opening for insertion of a thermometer glass tubing or stirrer for use during chemical reaction to prevent leaks, hazards and contamination.
	Rubber Stopper # 6	DEDVITTAD A DETUTTA
19	for Erlenmeyer Flask (narrow-mouth) 250 mL , 2 holes	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
	Date	d) Hole Ø: 5 mm  3. Number of holes : Two (2) holes
		4. Dimension tolerance on height, top and bottom diameter: ± 0.

tem		DESCRIPTION	
		5. Hardness: 40 ± 5 Duro	*/ }
	AVEL	6. Packed in resealable plastic bag	
		7. Comes with a brand	
		Functional Specifications: Used to cut the g	lass tubing
		ogs	noitenstant   noitie
		Performance Specifications: Must be able to	
		Performance Specimentons. Mast be asset	out and Samuel
	AND UNESON DESTRO	CHIFCE TEAR-ETED POMMS AT ALICH	
	m : 1 mil 6	Design Specifications:	inst be supported *
20	Triangular File, fine, 6" long, with plastic	1. Type of file: Triangular	
20	handle	2. Shape: Triangular	
	TIONIU.	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  Functional Specifications: Used as	an indicator to
	with attractical hereto a	neutral or a base	reby attest that the bijor
	erus astrofic d'herero o	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6;	as an indicator to effect different substances to comparison with the pl
	Date  Date  Listen conditions for an h	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14.	as an indicator to effect different substances to comparison with the pl
	naum conditions for airl i herein	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the pl
busho	Universal pH Paper,	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the pl
besitos	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the pl
besitos	Universal pH Paper,	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the ph
besino.	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the photogram of the phot
besito.	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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:	as an indicator to effect different substances to comparison with the plantage of the property of the plantage of the property of the plantage
21	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through 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	as an indicator to effect different substances to comparison with the photographic state and the photo
21	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14. c) For distilled water : pH 7  Design Specifications:  1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: a) Length: 69 mm x 6 mm 5. Number of colors in indicator test strip:	as an indicator to effect different substances to comparison with the photographic state and the photo
21	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14. c) For distilled water : pH 7  Design Specifications:  1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: a) Length: 69 mm x 6 mm 5. Number of colors in indicator test strip: values	as an indicator to effect different substances to comparison with the photographic state and the photo
21	Universal pH Paper, pH 0-14, 100 strips/pack	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14. c) For distilled water : pH 7  Design Specifications:  1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: a) Length: 69 mm x 6 mm 5. Number of colors in indicator test strip: values 6. Number of test strips: 100 pc strips 7. Packaging: Clear, transparent box 8. Shape of box: Square	as an indicator to effect different substances to comparison with the plants of the pl
21	Universal pH Paper, pH 0-14, 100	Performance Specifications: Must be used a color change when it is dipped into the determine/measure the pH of each, through color chart provided, which corresponds to:  a) For an acid : pH 0-pH 6; b) For a base : pH 8-pH 14. c) For distilled water : pH 7  Design Specifications:  1. Type: Test strips 2. Shape: Rectangle 3. Material: Cellulose/Paper based 4. Dimension of pH strip: a) Length: 69 mm x 6 mm 5. Number of colors in indicator test strip: values 6. Number of test strips: 100 pc strips 7. Packaging: Clear, transparent box	as an indicator to effect different substances to comparison with the plants and the plants are plants are plants and the plants are plants are plants and the plants are p

Position / Designation

Item	DESCRIPTION	
	11. Measures pH 0-pH 14	#
	12. Comes with a brand	