

PHILIPPINE SCIENCE HIGH SCHOOL - CALABARZON REGION CAMPUS

DOCUMENT TRACKING FORM

DIVISION

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<input type="checkbox"/>		<input type="checkbox"/>	QMSO

REFERENCE NO.: CID-2023-389
 DATE: 29 JUN 2023

FROM/TO	PARTICULARS	ACTION/S TAKEN	SIGNATURE	DATE (mm/dd/yy)
EVI	Purchase of Ph Meter	forwarded to BMM for signature	[Signature]	29 JUN 2023
AFA	-do-	signed	[Signature]	6/30/2023
DGC	-do-	signed	[Signature]	06/30/23
MPP	-do-	proposal to please attached the documented evidence that the equipments are unusable or report that the it is more economical to replace them instead of repairing for	[Signature]	06/30/23
EVI/APE	-do-	Service report attached	[Signature]	07/03/23
EE	-do-	signed for MPP fwd-ed to JMI	[Signature]	07-06-2023
JMI	-do-	signed and And to CPU	[Signature]	7/11/2023
EE	-do- +RFQ	prop-ed & fwd-ed to LFR	[Signature]	07-12-2023

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TERMS OF REFERENCE FOR THE PROCUREMENT OF pH METER TO REPLACE DEFECTIVE UNIT IN SCIENCE LABORATORY PSHS-CALABARZON REGION CAMPUS – ADVANCED SCIENCE AND TECHNOLOGY BUILDING

I. Background

The Philippine Science High School CALABARZON Region Campus (PSHS-CBZRC), since its establishment in 2015, has started to fulfill its vision to become a venue of academic excellence that provides facilities and services facilitative to the optimum learning of its scholars.

II. Rationale

Upon inspection of the pH probe electrodes (3 pcs) by a technical personnel of Micro-biological laboratory Inc., the pH probe electrode part of pH meter Tryte, TLE - 723 was observed to be defective due to its repeated use in experimental researches thus formation of crystals was observed hence affecting its pH readings. With this reason, the school needs to purchase a new set of pH meters because there are no other pH meter units available to use by the scholars and teachers conducting a laboratory experiment when the laboratory class starts. It is critical in teaching lessons included in the curriculum of Chemistry, Biology and Research Subjects without a pH meter unit, wherein no results will be gathered during their laboratory experiments. Moreover, a new pH meter unit is economically practical to purchase since the market price of a pH probe of the previous pH meter unit is very expensive which is almost the same as the new unit (see attached document).

III. Scope of Work and Job Specifications

The supplier must be able to provide supply, delivery and labor service to the following:

ITEM #	QTY	UNIT	ITEM/DESCRIPTION	UNIT COST	TOTAL COST
			<u>PRICE MUST BE Tax (VAT) INCLUSIVE</u>		
1	3	units	pH Meter unit Specifications: wireless, range 0–14 pH, at least ±0.1 pH or better accuracy, can operate 5 to 60 deg. C or better, with calibration, compatible with ion-selective electrodes (ISE) and oxidation reduction probe (ORP), Probe storage bottle and solution included, bluetooth enable to connect a device such as phone and tablet, for indoor laboratory and field studies. At least 5 years warranty service.	19,000.00	57,000.000
TOTAL					57,000.00



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

PHILIPPINE SCIENCE HIGH SCHOOL - CALABARZON REGION CAMPUS



Certificate No.: SCP000420Q

IV. Estimated Cost

The total cost estimate for the proposed procurement is **Fifty Seven Thousand Pesos Php 57, 000.00**

V. Mode of Procurement

The mode of procurement shall be "Small Value Procurement" pursuant to 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184.


VI. Payment Scheme

No advance payment shall be made. Payment shall be made **30 to 45** working days after completion of the supply, delivery and labor service of the item.

VI. Delivery Term

The item must be delivered and installed on or before **30 to 45** days after issuance of purchase order.

Prepared by:


Mr. EDUARDO V. ISABELA, JR.
Science Research Specialist I

27 JUN 2023


Ms. EDERLINDA E. LUMANGLAS
Science Research Assistant I

27 JUN 2023

Recommending Approval by:


Ms. MABELLE V. FURTO
CID Chief

Certified Funds Available by:


Ms. DANICA G. CACAO
Budget Officer

Recommending Approval by:


Ms. MA. THERESA P. PAGULAYAN
FAD Chief


Mr. ARNEL E. AGUILA
Accountant II

Approved by:


DR. JOSE M. ANDAYA
Campus Director

**MICROLAB**

Since 1960

Committed to Quality Life.

VAT Reg. TIN: 000-302-958-000-VAT

Quotation

QUOTATION NO. 4017864	ORDER NO	PAGE 1 of 1
REFERENCE	DATE Apr. 26, 2023	

FOR: Philippine Science High School - Calabarzon Region Campus
Brgy. Sampaga, , Philippines

ATTENTION: Mr. Eduardo Isabela

CUSTOMER NO. PSHSC001	DEPT. REFERENCE service	SALESPERSON 21JLS	SHIP VIA	TERMS 30 days
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QTY	UOM	ITEM NO.	PART NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
3	pc/s			pH Probe Electrode Delivery only for PH Meter Model: TLE-723	11,599.00	34,797.00

TOTAL **Php 34,797.00**

Terms & Conditions:

Delivery Price : Approx. 30-60 days upon receipt of PO
: valid for thirty (30) days

Prepared by:



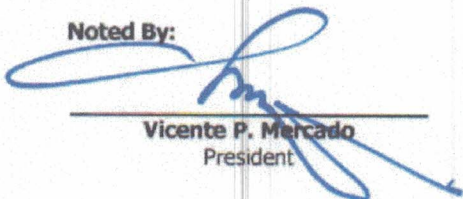
Joseph L. Sacdalan
Service Engineer

Approved by:



Ian B. Canales
Service Manager

Noted By:



Vicente P. Mercado
President

THIS SALES QUOTATION IS NOT VALID FOR CLAIMING INPUT TAXES

BIR CAS PERMIT NO.: 0227-051-CAS-000002
Date Issued: Feb 27, 2014

SQ #: 400001751000000000
Micro-Biological Laboratory, Inc.:
INDENTOR & IMPORTER OF HOSPITAL MEDICAL
EQUIPMENT & ANALYTICAL INSTRUMENTS
www.microlabphils.com.ph

HEAD OFFICE:
#1157 Rodriguez Ave. corner
General Lacuña St. Bangkal,
Makati City, Philippines 1233
Tel Nos.: 8551-3839 to 43
8551-3836, 8551-3837
Fax Nos.: 8831-9621
Email: admin@microlabphils.com.ph

CEBU CONTACT OFFICE:
Rm. 315 Krizia Bldg.
Gorordo Avenue
Cebu City, 6000
Tel Nos.: (032) 236-0665 / (032) 238-7446
Email: mblicebu@info.com.ph



MICROLAB
Since 1960
Committed to Quality Life.

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Tel Nos.: (+632) 551-3839 to 43 (loc. 219)
Fax No.: (+632) 831-9621
Cebu Contact Numbers:
(+6332) 236-0665 (+6332) 238-7446
Web: www.microlabphils.com.ph

TECHNICAL SERVICE REPORT

Customer Care

No: 42769

DATE: 4-18-2023

Customer: PHILIPPINE SCIENCE HIGH SCHOOL	Equipment: PH meter + conductivity
Department: LABORATORY	Brand: TITE TECHNOLOGIES
Person/s in Charge:	Model: TLE-723
Address: BATANGAS	Serial: TLE 72318081002/1004/1003
Contact Details:	Time Started: _____ Time Finished: _____
	Total Labor: _____ Hrs. _____ Mins.

<input checked="" type="checkbox"/> Check up	<input type="checkbox"/> Installation	<input type="checkbox"/> Repair	<input type="checkbox"/> Contract	Visit No.: _____ of _____
<input type="checkbox"/> Stock	<input type="checkbox"/> New Installation	<input type="checkbox"/> Under Warranty	<input type="checkbox"/> AMA	
<input type="checkbox"/> Pre-delivery testing	<input type="checkbox"/> Demo Installation	<input type="checkbox"/> Service Unit	<input type="checkbox"/> PMA	
<input type="checkbox"/> Billable Job	<input type="checkbox"/> Pull Out	<input type="checkbox"/> Tie up	<input type="checkbox"/> Warranty	

PROBLEM/S REPORTED:

- CHECK UP OF THE UNIT

WORK PERFORMED IN BRIEF:

- CHECK THE UNIT

- CHECK CONDUCTIVITY PROBES AND PH PROBE

- ALL PH PROBES ARE DEFECTIVE

- SIGN OF CRYSTALLIZATION / EXPIRED

NOTE PROBES OF PH ARE FOR REPLACEMENT

- WILL COORDINATE TO TITE FOR PROBE REPLACEMENT IF MODEL STILL AVAILABLE

- FOR FOLLOW UP REPAIR

NO.	PART/S USED / REPLACED	PART NO.	SERIAL NO.	QTY.

EQUIPMENT STATUS:

Working For Observation

Pull Out for Repair For Follow-up Repair

ACKNOWLEDGED BY:

[Signature] April 18, 2023

EDUARDO V. ISABELA JR.

SIGNATURE OVER PRINTED NAME / POSITION

DATE & TIME:

CUSTOMER REMARKS:

ENGINEER/S NAME: JOSEPH SACDALAN

DATE & TIME: 4/18/2023

SALES REPRESENTATIVE (for Pre Delivery Testing): _____

DATE & TIME: _____



Exclusive distributor of:

PASCO
scientific

June 26, 2023

Quote No. P230626-D

Mr. Eduardo V. Isabela Jr.
Science Research Specialist I
PHILIPPINE SCIENCE HIGH SCHOOL - CALABARZON
Brgy. Sampaga, Batangas City

Dear Mr. Isabela :

Thank you for your enquiry. We are pleased to quote as follows:

	Unit Price	Total Price
1. 3 units PS-3204 Wireless pH Sensor	18,933.00	56,799.00

ScienceStar is the Exclusive Distributor of PASCO scientific and have no Sub-dealers in the Philippines.

Brand : PASCO
Delivery : 90 days after receipt of firm order.
Validity : 30 days prices subject to change without prior notice.
Payment : 15 days after delivery
Warranty : PASCO manufactured products are covered by a limited warranty for a period of five years from date of delivery against defects in material and workmanship. Products manufactured by anyone other than PASCO are subject to the conditions of the warranty supplied by the manufacturer. The PASCO warranty does not extend to any product, including touch screens, which has been subject to abuse, neglect, accident, improper installation or application, any use other than education, or products which have been repaired or altered outside factory. Consumables and limited-life products (such as probes, membranes, fast response temperature probes, batteries, etc.) are excluded.

Training : Training is on site except when quarantine protocols prevents face to face interactions. With restrictions, training is via Zoom or other online apps

Should you need any clarifications, please feel free to contact us again.

We trust that our offer meets your requirements and look forward to your valued order.

Sincerely yours,

Nanette R. Lim
General Manager

ScienceStar Corporation

U-1201 OMM Citra Building San Miguel Avenue Ortigas Center 1605 Pasig City
Telefax : 8470 1229 CP No : 0939 917 4264 / 0916 700 1881 Email : info@ScienceStar.ph fb : facebook.com/sciencestarph



Noveaulab Asia Corp.
Unit SS105 DSL Building
No. 380 Del Monte Avenue
Quezon City
Tel. No. (028) 711-8580
www.noveaulab.com

Quote No: QC2023-2972-CARL
Date Issued: June 29, 2023
Reference No.: N/A

Customer: Eduardo Isabela
Philippine Science High School CALABARZON Region Campus

Credit Terms: 30 days
Delivery Conditions: FOB Batangas
Delivery Period: About 75/120 govt. working days from receipt of Purchase Order unless otherwise indicated.

Quote Validity: Quote is valid for 30 days

Pricing Terms: VAT Inclusive

Warranty Terms: Standard One (1) year on parts & services against mfg. defects, consumables and parts subject to wear and tear are excluded

Note: Prices quoted for forward sales items subject to acceptance due to ForEx fluctuations

We are pleased to offer you the following

**NOTE: Warranty is one year. Please check if offer meets application requirements.
No returns/exchanges possible.**

Bante PH-A130-UK Laboratory pH/Ion Meter

High-precision laboratory pH/ion meter, suitable for measuring pH, ORP, ion concentration and water hardness, 1 to 5 points calibration, setup menu contains 18 options, accuracy: 0.5% F.S.

Php 55,175.00/unit x 5 =
Php 275,875.00

pH Mode:

High-precision laboratory pH/ion meter is equipped with a 7 inch TFT display. 1 to 5 points calibration with automatic recognition for USA, NIST and DIN buffers. Solution temperature coefficient compensates for pure water samples and references the pH to 25°C.

ORP Mode:

1 point offset calibration allows adjusting the displayed value to a known standard. Relative and absolute millivolt modes ensure the reliable ORP measurements.

Ion Concentration Mode:

2 to 5 points calibration, including the selection of 8 concentration points. Electrode management is capable of storing and recalling up to 3 electrode slopes. Selectable ion measurement methods (direct reading, known addition, known subtraction, sample addition, sample subtraction) and concentration units (ppm, mg/L, mol/L, mmol/L).

Water Hardness Mode:

2 to 5 points calibration from low to high concentrations. Selectable measurement units (german degree, english degree, french degree, mmol/L and mg/L) are used for professional water hardness measurements.



Other Features:

Automatic temperature compensation ensures accurate readings over the entire range.

Auto-read function senses and locks the measurement endpoint.

Timed interval readings send the measurement data to a PC or printer.

Limit Alarm automatically alerts when reading exceeds the specified range.

Calibration due alarm reminds the user to calibrate the meter regularly.

Calibration log shows the date, time, calibration points, offset and pH slope.

Password protection prevents the unauthorized calibration and settings.

Expanded memory stores or recalls up to 1000 data sets.

Reset function automatically resumes all settings back to the factory defaults.

Specifications:**Model A130****pH**

Range	-2.000 to 20.000 pH
Resolution	0.001 / 0.01 pH, selectable
Accuracy	±0.002 pH
Calibration	1 to 5 points
pH Buffer Options	USA / NIST / DIN / 5 custom buffers

ORP

Range	-2000.0 to 2000.0 mV
Resolution	0.1 mV
Accuracy	±0.2 mV
Calibration	1 point
Measurement Modes	Relative / Absolute mV

Ion Concentration

Range	0.001 to 30000 (depending on the range of ISE)
Resolution	0.001, 0.01, 0.1, 1, automatic
Accuracy	±0.5% F.S. (monovalent), ±1% F.S. (divalent)
Calibration	2 to 5 points
Calibration Solutions	0.001 / 0.01 / 0.1 / 1 / 10 / 100 / 1000 / 10000
Measurement Units	ppm, mg/L, mol/L, mmol/L
Measurement Methods	Direct reading, known addition, known subtraction, sample addition, sample subtraction

Electrode Management 1 to 3

Water Hardness

Range (Concentration)	0.05 to 200 mmol/L
Range (German Degree)	0 to 1120°dH
Range (English Degree)	0 to 1404°e
Range (French Degree)	0 to 2000°fH
Range (Ca ²⁺)	0 to 8000 mg/L
Range (CaCO ₃)	0 to 19999 mg/L
Range (CaO)	0 to 11200 mg/L
Resolution	0.001, 0.01, 0.1, 1, automatic
Accuracy	±1% F.S.
Calibration	2 to 5 points
Calibration Solutions	0.01 / 0.1 / 1 / 10 / 100 mmol/L

Temperature

Range	0 to 105°C / 32 to 221°F
Resolution	0.1°C/°F
Accuracy	±0.5°C / ±0.9°F
Calibration	1 point
Calibration Range	Reading ±10°C/°F
Other Specifications	
Temperature Compensation	0 to 100°C / 32 to 212°F, manual or automatic
Stability Criteria	Standard / High-accuracy
Measurement Modes	Continuous / Auto-read measurement endpoint
Timed Interval Readings	10 / 30 / 60 seconds, 10 / 30 minutes or off
Calibration Due Alarm	1 to 31 days or off
High/Low Limit Alarm	Selectable
Password Protection	4 digits
Memory	Stores up to 1000 data sets
Output	USB communication interface
Connector	BNC, 3.5 mm jack socket
Display	7 inch TFT LCD
Power Supply	12V DC power adapter
Dimensions	240 × 220 × 80 mm
Weight	1.7 kg

With:


P11 glass pH electrode

TP-10K temperature probe

pH 4.01, 7.00, 10.01 buffer reagents

12V DC power adapter

Sincerely,



LILY N. LEE
President