



Republic of the Philippines
 Department of Agriculture
BUREAU OF SOILS AND WATER MANAGEMENT
 SRDC Bldg., Elliptical Road corner Visayas Avenue,
 Diliman, Quezon City 1101

**BSWM- BIDS AND AWARDS COMMITTEE
 SUPPLEMENTAL BID BULLETIN
 ADDENDUM NO. BSWM-2023-00-013-01**

CONTRACT: SUPPLY AND DELIVERY OF VARIOUS CHEMICALS, LABORATORY SUPPLIES AND REFERENCE MATERIALS FOR FY 2023 - IB NO.: BSWM 2023-013

This **Addendum** is being issued in accordance with **Section 22.5.2 of the IRR of RA 9184**, to clarify and modify some provisions of the Bidding Document. **THIS SHALL FORM AN INTEGRAL PART OF THE BID DOCUMENT.** Likewise, the succeeding agreements and reminders were discussed during the **Pre-Bid Conference** held last **November 15, 2022 at the BSWM Convention Hall and via Videoconferencing-Zoom.**

This procurement is undertaken through **Early Procurement Activity (EPA)**. Below are the guidelines on the implementation per GPPB Circular 06-2019, to wit:

- a. Award of the Contract is subject to the approval of the General Appropriation Act for CY 2023;
- b. Fixed price rule in procurement shall apply;
- c. Extension of bid validity and security may apply per Article 4 of GPPB Circular 06-2019;
- d. Eligibility requirements shall be valid prior to award of Contract;
- e. Date of earliest delivery shall be determined upon award of Contract.

I. DISCUSSION OF THE BIDDING DOCUMENT:


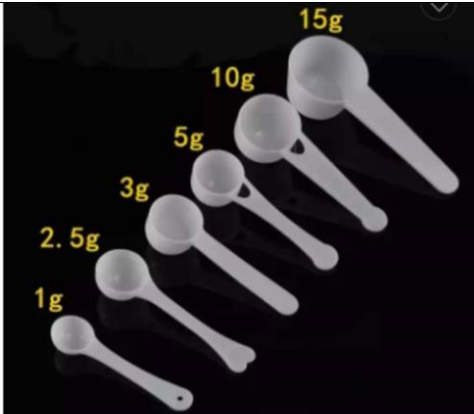
- Bidder must have completed a single contract that is **25% of the ABC that is similar to this project completed within two (2) consecutive years from the date of submission and receipt of bids.**
- Similar contracts shall be contract supply and delivery of chemicals, laboratory supplies and certified reference materials.
- **Awarding: One Project having several lots that shall be awarded per line-item basis.**
- Delivery of the Goods is required within **Thirty (30) calendar days** upon receipt of NTP.

II. AMMENDMENTS IN THE BIDDING DOCUMENT:

ORIGINAL	AMENDED
Section I. Invitation to Bid	Section I. Invitation to Bid
ABC: LOT 1- Supply and Delivery of various Chemicals in the amount of One Million Seventy-Seven Thousand Five Hundred Fifty-Eight Pesos (Php 1,077,558.00); LOT 2- Supply and Delivery of various Laboratory Supplies in the amount of Two Hundred Twenty-Eight Thousand Nine Hundred Fifty Pesos (Php 228,950.00); and LOT 3- Supply and Delivery of various Certified Reference Materials in the amount of Five Hundred Forty-One Thousand Pesos (Php 541,000.00).	ABC: LOT 1- Supply and Delivery of various Chemicals in the amount of One Million Fifty-Two Thousand Nine Hundred Fifty-Eight Pesos (Php 1,052,958.00); LOT 2- Supply and Delivery of various Laboratory Supplies in the amount of Two Hundred Fifty-Three Thousand Five Hundred Fifty Pesos (Php 253,550.00); and LOT 3- Supply and Delivery of various Certified Reference Materials in the amount of Five Hundred Forty-One Thousand Pesos (Php 541,000.00).
Section VII. Technical Specification/ Terms	Section VII. Technical Specification/ Terms of

of Reference	Reference
Lot 1- Supply and Delivery of various Chemicals	
Item No. 9- EC Conductivity Standard, NIST Traceable - 111.8 mS/cm	Item No. 9- EC Conductivity Standard, NIST Traceable - 111.8 mS/cm, 250ml
Item No. 10- EC Conductivity Standard, NIST Traceable - 1288 uS/cm	EC Conductivity Standard, NIST Traceable - 1288 uS/cm, 250ml
Item No. 18- Sulfuric Acid (0.1 N, NIST Traceable with certificate of analysis)	Item No. 18- Sulfuric Acid (0.1 N, NIST Traceable with certificate of analysis, 250ml
Item No. 19- Hydrochloric Acid, (0.1 N, NIST Traceable with certificate of analysis)	Item No. 19- Hydrochloric Acid, (0.1 N, NIST Traceable with certificate of analysis, 250ml
Item No. 33- NIST Traceable pH Buffer Solution - pH 7.00 (yellow); 1L/bottle	Item No. 33- NIST Traceable pH Buffer Solution - pH 7.00 (any color); 1L/bottle
Item No. 39- NIST Traceable pH Buffer Solution - pH 4.00 (pink); 1L/bottle	Item No. 39- NIST Traceable pH Buffer Solution - pH 4.00 (any color); 1L/bottle
	Please see the Revised Section VII. Technical Specification for lots 1 and 2 as Annex A and B respectively.

For Lot 2- Supply and Delivery of various Laboratory Supplies, sample pictures were requested prospective bidders for reference.

Item No. 1			
Items No. 17 and 18			

III. REMINDERS DURING THE PRE-BID CONFERENCE:

- GPPB Resolution No. 15-2021 dated October 14, 2021

For the purpose of updating the Certificate of Registration and Membership, **all Class “A” eligibility documents mentioned in Section 8.5**, supporting the veracity, authenticity and validity of the Certificate **SHALL remain current and updated**. The **failure by the prospective bidder to update its Certificate with the current and updated Class “A” eligibility documents shall result in the automatic suspension of the validity of its Certificate** until such time that all of the expired Class “A” eligibility documents has been updated.

Note: Please refer to the bidding document for the updated Section VIII. Checklist of Technical and Financial Documents.

- Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”

“Any lacking documents can cause the automatic disqualification of bids.”

- **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;
- Below are the **acceptable forms of bid security** that bidders may opt to use, **which shall include the Bid Securing Declaration**. The amount of which shall not be less than the required percentage of the ABC in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Not less than the required Percentage of the ABC)
Cash or cashier’s/manager’s check issued by a Universal or Commercial Bank.	Two percent (2%)
Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	Two percent (2%)
Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)
Bid Securing Declaration (Signed and Notarized)	

NOTE: Bidders SHALL use ATTACHED template of Bid Securing Declaration in the bidding document.

Other forms of Bid Securing Declaration will NOT BE ACCEPTED and SHALL BE RATED “FAILED”.

Please see the attached Revised Bid Securing Declaration for your perusal (**Annex A**).

- Net Financial Contracting Capacity (NFCC):

The computation of a prospective bidder’s NFCC must be **at least equal to the ABC to be bid** or, for procurement by lot, **at least equal to the sum of all the ABCs of lots to which it participated**.

NFCC= Current assets minus current liabilities multiplied by 15 (constant factor) minus the value of all outstanding or uncompleted portions of on-going contracts, including awarded contract/s yet to be started, coinciding with the contract to be bid.

- **Sealing and marking of bid proposal**- The bidder shall submit:

1. One (1) ORIGINAL COPY.
2. One (1) DUPLICATE COPY.
3. One (1) PDF COPY in a USB or CD – to be placed inside the Duplicate Copy of Technical Proposal and Duplicate Copy of Financial Proposal.

NOTE:

All photocopied documents must be stamped and signed “Certified True Copy”. And all pages/documents must be duly signed by the authorized representative (both original and duplicate copies).

For easy reference, all bidders are requested to provide dog-ear codes/ tabs in the presentation of their documents.

○ **Reminders:**

- ✓ Bidders' responsibility to read, study, and review the Bidding Document and Bid Bulletin/s of the procurement project.
 - ✓ Further clarification/s on the Bidding Document shall be in writing and must be submitted 10 days before the Opening of Bids.
 - ✓ All bidders who wish to join the bidding shall download the attached document from PhilGEPS website to be included in the Document Request List (DRL).
 - ✓ Bidders may download the updated Bidding Forms at GPPB Website (<https://www.gppb.gov.ph/downloadables.php>).
 - ✓ Schedule of Submission and Opening of Bids is subject to change due to Community Quarantine enforced by the government in line with the COVID-19 pandemic. For updates, please refer to the BSWM PhilGEPS posting (<https://www.philgeps.gov.ph/>) and BSWM Procurement Service FB page <https://www.facebook.com/bswmpms>.
 - ✓ Authorization letter and a copy of company ID shall be presented by the Representative of the Bidder who will submit the bid proposal and who will attend the Opening of Bids, on-site or online.
 - ✓ In case of withdrawal of submitted bid, a letter stating their intention to withdraw from the project should be submitted by the bidder not later than the scheduled deadline of submission and opening of bids.
 - ✓ Bidders declared to have the Lowest/ Single Calculated Bid will be subject for post-qualification.
 - ✓ Bidder shall submit the additional requirements listed on the NOTICE as LCB/ SCB within five (5) calendar days from receipt of Notice. *Non-compliance can be grounds for post-disqualification.*
- A complete set of **Bidding Document** may be acquired by interested Bidders until **November 29, 2022, 3:00PM** from the address and website.

DEADLINE/SCHEDULE OF SUBMISSION AND OPENING OF BIDS:

Deadline of submission of bid proposals is on December 1, 2022, 9:00AM.

Opening of Bids is on December 1, 2022, 9:30AM at BSWM Convention Hall and via videoconferencing (Zoom).

For guidance and information of all concerned.

(Sgd)ENGR. EDUARDO V. ALBERTO
BAC Chairperson

Revised Section VII. Technical Specification

Item	Specification	Statement of Compliance
<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>		

LOT 1- Supply and Delivery of various Chemicals

Item No.	Description	Statement of Compliance
	<u>LSD 083 PD 1435/ ISO Maintenance/ Regular</u>	
	<u>ISO Maintenance</u>	
1	1000 ppm Potassium Standard, 500 ml/bottle, NIST Traceable with Certificate of Analysis	
2	Hydrochloric Acid, AR, Concentrated, 2.5L /bottle	
3	Ethanol, technical grade, 98-99 % 5gallon/carboy	
4	Triethanol amine, AR, 1L/Bottle	
5	Barium Chloride Dihydrate, AR, 500g/bot	
6	Potassium Sulfate, AR, 500g/bottle	
7	Copper Sulfate pentahydrate, AR, 250g/bottle	
8	Sodium Hydroxide, AR, 500g/bottle	
9	EC Conductivity Standard, NIST Traceable - 111.8 mS/cm, 250ml	
10	EC Conductivity Standard, NIST Traceable - 1288 uS/cm, 250ml	
11	1000 ppm Copper Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	

12	1000 ppm Zinc Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
13	1000 ppm Iron Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
14	1000 ppm Manganese, 500ml/bottle, NIST Traceable with Certificate of Analysis	
15	Potassium Dichromate, 99% AR, 500g/bottle	
16	Sulfuric Acid, AR, Concentrated, 2.5L/bottle	
17	Nitric Acid (AR, 2.5L/bottle >68%, with COA included, supplier must have PNP required permits on Controlled Chemicals)	
18	Sulfuric Acid (0.1 N, NIST Traceable with certificate of analysis, 250ml)	
19	Hydrochloric Acid, (0.1 N, NIST Traceable with certificate of analysis, 250ml)	
20	Sodium Hexametaphosphate, AR, 1000g/ bottle	
	PD 1435	
21	Peptone, meat peptic digested, granulated, for microbiology, CAS 91079-38-8, pH 6 - 7 (20 g/l, H ₂ O, 20 °C). pH: 6 - 7 (20 g/l, H ₂ O, 20 °C)	
22	D-(+)- Glucose anhydrous, anhydrous, free-flowing, Redi-Dri™, ≥99.5% , 500g/bottle	
23	Agar-agar, Bacteriological, microbiology tested, suitable for plant cell culture, granular, 500g/bottle	
24	Field CO2 Test Refill, 50 probes	
25	Cesium Chloride, AR/ACS, 500g/bottle	
26	Perchloric Acid, 70-76% purity, AR/ACS, 500g/bottle	
27	potassium chloride AR grade 500g	
28	1000 ppm Copper Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	

29	1000 ppm Calcium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
30	1000 ppm Magnesium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
31	1000 ppm Sodium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
32	1000 ppm Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	
33	NIST Traceable pH Buffer Solution - pH 7.00 (any color); 1L/bottle	
34	N,N-dimethylformamide, ACS reagent, ≥99.8%, 500ml/bottle	
35	Tris (hydroxymethyl) aminomethane, ACS reagent, ≥99.8%, 80-100g/ bottle w/ certificate of analysis, Must be NIST Traceable, safety data sheet, and expiry date/shelf life	
	Regular	
36	NIST Traceable pH Buffer Solution - pH 10.00 (blue); 1L/bottle	
37	EC Standard NIST Traceable with Certificate of Analysis, 147uS/cm, 500 ml/bottle	
38	EC Standard NIST Traceable with Certificate of Analysis, 1413uS/cm, 500 ml/bottle	
39	NIST Traceable pH Buffer Solution - pH 4.00 (any color); 1L/bottle	
40	Iodonitrotetrazolium chloride, BioReagent, ≥97.0% (calc. on dry substance, NT), 5g/bottle	
41	Potassium Nitrate, AR,ACS, 500g/bottle	
42	Iodonitrotetrazolium formazan, AR, 5g/ bottle	
43	Ethanol, AR, 99-99.5 %,1 L/bottle	
44	NIST Traceable - Nitrate (NO3), 500 ml/bottle (1000ppm)	
	SCMD 036 R&D Corn	
45	pH Buffer Solution (NIST Traceable) for: pH 4.00 (clear/non-colored); 1L-with Certification of analysis	
46	pH Buffer Solution (NIST Traceable) for: pH 10.00 (clear/non-colored); 1L- with Certification of analysis	

47	pH Buffer Solution (NIST Traceable) for: pH 9.00 (clear/non-colored); 1L- with Certification of analysis	
48	NIST Traceable - AAS Standard - Na, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
49	NIST Traceable - AAS Standard - K, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
50	NIST Traceable - AAS Standard - Ca 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
51	NIST Traceable - AAS Standard - Mg, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
52	NIST Traceable - AAS Standard - Cu, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
53	NIST Traceable - AAS Standard - Fe, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	

54	NIST Traceable - AAS Standard - Mn, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
55	NIST Traceable - AAS Standard - Zn, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
56	NIST Traceable - - P, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	
	<u>LUPEZ 065 Hydroponics</u>	
57	pH Down 4L/ gallon for hydroponics solution (liquid) phosphorous based	
58	pH Up 4L/gallon for hydroponics solution (liquid) nitrogen based	
59	Hydroponics Nutrient Solution Authentic SNAP Hydroponics Nutrient Solution from UPLB 1 set consists of 500ml solution A and 500ml solution B, Good for approximately 200 liters of water	
60	Sodium Hexametaphosphate, AR, 1000g	
61	Sodium carbonate, AR, 500g	
62	pH Buffer Solution (NIST Traceable) for: pH 7.00 clear/non-colored solution 1L- with Certification of analysis	
63	pH Buffer Solution (NIST Traceable) for: pH 4.00 (clear/non-colored); 1L-with Certification of analysis	
64	pH Buffer Solution (NIST Traceable) for: pH 10.00 (clear/non-colored); 1L- with Certification of analysis	
65	Standards (NIST Traceable) for: EC Standard, 147uS/cm, 500 ml-with Certification of analysis	

66	Standards (NIST Traceable) for: EC Standard, 1413uS/cm, 500 ml-with Certification of analysis	
	SWRRD 045 RD Other Regular	
67	NIST Traceable pH Buffer Solution - pH 7.00 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
68	NIST Traceable pH Buffer Solution - pH 4.00 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
69	NIST Traceable pH Buffer Solution - pH 9 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
70	NIST Traceable pH Buffer Solution - pH 10 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
71	NIST Traceable - AAS Standard -Nitrate 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
72	NIST Traceable - AAS Standard -Ammonia 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
73	NIST Traceable - AAS Standard -Sulfate 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	
74	Hydrochloric Acid, AR grade, 2.5L	
75	Tin Containers mega box light weight 8 x 5mm, set of 1000 (240 06410)	
76	Tin Capsules Pressed Ultra-Light Weight 8 x 5mm, pack of 100 (240 06410)	
77	Prepacked Reactor CHNS/NCS/S INC CRUCIBLE (468 02015)	

Name and Signature of Authorized Representative

Company Name

Date Signed

Revised Section VII. Technical Specification

Item	Specification	Statement of Compliance
<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>		

LOT 2- Supply and Delivery of various Laboratory Supplies

Item No.	Description	Statement of Compliance
	<u>LSD 085 Regular</u>	
1	PET Bottle, capacity: 300ml, Dia:900mm x 120mm, white	
2	PET Bottle, capacity: 500ml, Dia:3.74inch x 3.81inch, wide	
3	Test tube 13mmx100mm 100pcs/box	
4	Erlenmeyer flask, 125ml, Made of Type 1 Borosilicate glass with rubber stopper	
5	Threaded Test Tubes, 30ml, glass tubes made of Type 1 Borosilicate glass with ethanol resistant caps , 20mm x 120mm	
6	Erlenmeyer flask, 50ml, Made of Type 1 Borosilicate glass with No. 2 rubber stopper	
7	Filter paper, Whatmann No. 2 or equivalent, 100 pcs/box	
8	Pipette tips, 5ml, 100pcs/box	
9	Funnel, Polypropylene, Dia: 100mm, Stem Dia: 11 mm, Stem Length 90 mm	
10	Funnel Stand, Wooden, ≥4 holes per stand, funnel cap: 125ml-250ml, hole dia: 50mm, height: adjustable upto 320mm	
11	Microcentrifuge Tubes, 2ml, colorless, 1000 tubes/pack.	
12	Amber bottles, Brown, 60ml	

13	Amber bottles, Brown, 120ml	
14	Kimwipes, Lint Free, 280 pcs/box	
	SCMD 036 R&D Corn	
15	Graduated Cylinder, 50 mL, Borosilicate Glass class A with glass stopper	
16	Graduated Cylinder, 100 mL, Borosilicate Glass class A with glass stopper	
17	Plastic scoop (for 5g, Volume: ~3.85cm ³ , Inner Diameter: 1cm, Cylinder Height 4.9cm, Handle length: 5cm)	
18	Plastic scoop (for 2g soil, Volume: ~1.57cm ³ , Inner Diameter: 10mm, Cylinder Height: 20mm, Handle length: 5cm)	
19	Laboratory Gloves, Nitrile, 100's/box, small	
20	Laboratory Gloves, Nitrile, 100's/box, medium	
21	Laboratory Gloves, Nitrile, 100's/box, large	
22	Non-woven disposable face mask with ear loop about 3-4 ply, 50pcs/box	
23	Glassware Liquid Cleaner Specifications: Liquid, alkaline and phosphate-free concentrate Volume: 5 Liters Sequestering agent content (alkalimetric): 8.5-10% Density: 1.05-1.09 Free alkali (as NaOH): 1.5-2.5% Phosphate: ≤ 0.002% Inclusions: Safety Data Sheet (SDS), Certificate of Analysis (CoA)	
24	Concentrated Liquid Detergent, 5L	
25	Wash Bottle, 500 mL capacity, opaque color	
	LUPEZ 065 Hydroponics	
26	Graduated Cylinder 1000ml glass	
27	Glass Stirring Rod	
28	Wash bottle (500 ml) Polyethylene, easy to squeeze, leak-proof, 500 ml"	
29	Liquid detergent, phosphate free, antibacterial, 5 liters	
30	Shelf trolley plastic with tray shelves, Number of bases: 3; Height: 72cm Length: 70x44cm	
31	Beaker Lab Glass 600ml	

32	Soil Hydrometer ASTM for Soil Texture Determination	
33	Thermometer (-50°C-150°C) 8inch Long-Stem Accuracy $\pm 0.2^{\circ}\text{C}$	
34	Mortal and Pestle Made of glazed heavy-porcelain 320ml capacity, included rubber tip pestle	
35	Spatula (4 x 0.75in Blade)	
36	3oz. Tinned-Metal Sample Container (Package of 12)	
37	Volumetric Lab Flask 500ml	

Name and Signature of Authorized Representative

Company Name

Date Signed

Supply and Delivery of Chemicals for CY 2023

Item No.	Description	Qty	Unit	Unit Cost	Total
	LSD 083 PD 1435/ ISO Maintenance/ Regular				
	ISO Maintenance				
1	1000 ppm Potassium Standard, 500 ml/bottle, NIST Traceable with Certificate of Analysis	2	bot	7,000.00	14,000.00
2	Hydrochloric Acid, AR, Concentrated, 2.5L /bottle	4	bot	2,500.00	10,000.00
3	Ethanol, technical grade, 98-99 % 5gallon/carboy	4	carboy	5,500.00	22,000.00
4	Triethanol amine, AR, 1L/Bottle	2	bot	7,500.00	15,000.00
5	Barium Chloride Dihydrate, AR, 500g/bot	1	bot	6,180.00	6,180.00
6	Potassium Sulfate, AR, 500g/bottle	1	bot	3,660.00	3,660.00
7	Copper Sulfate pentahydrate, AR, 250g/bottle	1	bot	2,800.00	2,800.00
8	Sodium Hydroxide, AR, 500g/bottle	3	bot	1,600.00	4,800.00
9	EC Conductivity Standard, NIST Traceable - 111.8 mS/cm, 250ml	1	bot	4,500.00	4,500.00
10	EC Conductivity Standard, NIST Traceable - 1288 uS/cm, 250ml	1	bot	4,500.00	4,500.00
11	1000 ppm Copper Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	5,500.00	5,500.00
12	1000 ppm Zinc Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	5,500.00	5,500.00
13	1000 ppm Iron Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	6,600.00	6,600.00
14	1000 ppm Manganese, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	7,920.00	7,920.00
15	Potassium Dichromate, 99% AR, 500g/bottle	4	bot	6,300.00	25,200.00
16	Sulfuric Acid, AR, Concentrated, 2.5L/bottle	15	bot	3,000.00	45,000.00
17	Nitric Acid (AR, 2.5L/bottle >68%, with COA included, supplier must have PNP required permits on Controlled Chemicals)	5	bot	6,000.00	30,000.00
18	Sulfuric Acid (0.1 N, NIST Traceable with certificate of analysis, 250ml)	5	bot	1,800.00	9,000.00
19	Hydrochloric Acid, (0.1 N, NIST Traceable with certificate of analysis, 250ml)	5	bot	1,500.00	7,500.00
20	Sodium Hexametaphosphate, AR, 1000g/ bottle	7	bot	10,000.00	70,000.00
	PD 1435				
21	Peptone, meat peptic digested, granulated, for microbiology, CAS 91079-38-8, pH 6 - 7 (20 g/l, H ₂ O, 20 °C). pH: 6 - 7 (20 g/l, H ₂ O, 20 °C)	1	bot	12,000.00	12,000.00
22	D-(+)- Glucose anhydrous, anhydrous, free-flowing, Redi-Dri™, ≥99.5% , 500g/bottle	2	bot	5,000.00	10,000.00
23	Agar-agar, Bacteriological, microbiology tested, suitable for plant cell culture, granular, 500g/bottle	1	bot	20,000.00	20,000.00
24	Field CO2 Test Refill, 50 probes	50	pack	3,696.00	184,800.00
25	Cesium Chloride, AR/ACS, 500g/bottle	1	bot	32,000.00	32,000.00
26	Perchloric Acid, 70-76% purity, AR/ACS, 500g/bottle	2	bot	11,000.00	22,000.00
27	potassium chloride AR grade 500g	1	bot	6,000.00	6,000.00

28	1000 ppm Copper Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	6,000.00	6,000.00
29	1000 ppm Calcium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	7,800.00	7,800.00
30	1000 ppm Magnesium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	7,320.00	7,320.00
31	1000 ppm Sodium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	7,920.00	7,920.00
32	1000 ppm Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	1	bot	7,920.00	7,920.00
33	NIST Traceable pH Buffer Solution - pH 7.00 (any color); 1L/bottle	2	bot	4,000.00	8,000.00
34	N,N-dimethylformamide, ACS reagent, ≥99.8%, 500ml/bottle	1	bot	9,000.00	9,000.00
35	Tris (hydroxymethyl) aminomethane, ACS reagent, ≥99.8%, 80-100g/ bottle w/ certificate of analysis, Must be NIST Traceable, safety data sheet, and expiry date/shelf life	1	bot	9,200.00	9,200.00
	Regular				
36	NIST Traceable pH Buffer Solution - pH 10.00 (blue); 1L/bottle	2	bot	4,000.00	8,000.00
37	EC Standard NIST Traceable with Certificate of Analysis, 147uS/cm, 500 ml/bottle	2	bot	4,000.00	8,000.00
38	EC Standard NIST Traceable with Certificate of Analysis, 1413uS/cm, 500 ml/bottle	1	bot	4,000.00	4,000.00
39	NIST Traceable pH Buffer Solution - pH 4.00 (any color); 1L/bottle	1	bot	4,000.00	4,000.00
40	Iodonitrotetrazolium chloride, BioReagent, ≥97.0% (calc. on dry substance, NT), 5g/bottle	1	bot	25,300.00	25,300.00
41	Potassium Nitrate, AR,ACS, 500g/bottle	1	bot	5,500.00	5,500.00
42	Iodonitrotetrazolium formazan, AR, 5g/ bottle	1	bot	17,250.00	17,250.00
43	Ethanol, AR, 99-99.5 %,1 L/bottle	1	bot	9,000.00	9,000.00
44	NIST Traceable - Nitrate (NO3), 500 ml/bottle (1000ppm)	2	bot	8,000.00	16,000.00
	SCMD 036 R&D Corn				
45	pH Buffer Solution (NIST Traceable) for: pH 4.00 (clear/non-colored); 1L-with Certification of analysis	4	bottle	2,364.00	9,456.00
46	pH Buffer Solution (NIST Traceable) for: pH 10.00 (clear/non-colored); 1L- with Certification of analysis	4	bottle	2,364.00	9,456.00
47	pH Buffer Solution (NIST Traceable) for: pH 9.00 (clear/non-colored); 1L- with Certification of analysis	2	bottle	2,364.00	4,728.00
48	NIST Traceable - AAS Standard - Na, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	7,920.00	7,920.00
49	NIST Traceable - AAS Standard - K, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	7,920.00	7,920.00
50	NIST Traceable - AAS Standard - Ca 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	7,920.00	7,920.00

51	NIST Traceable - AAS Standard - Mg, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	7,320.00	7,320.00
52	NIST Traceable - AAS Standard - Cu, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	4,680.00	4,680.00
53	NIST Traceable - AAS Standard - Fe, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	2	bot	6,600.00	13,200.00
54	NIST Traceable - AAS Standard - Mn, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	7,920.00	7,920.00
55	NIST Traceable - AAS Standard - Zn, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	1	bot	4,680.00	4,680.00
56	NIST Traceable - - P, 500mL (1000ppm) at least 1 year expiration date from date of delivery with Certificate of Analysis, Safety Data Sheet, and expiry date/ shelf life	2	bot	8,000.00	16,000.00
LUPEZ 065 Hydroponics					
57	pH Down 4L/ gallon for hydroponics solution (liquid) phosphorous based	5	Gal	1,900.00	9,500.00
58	pH Up 4L/gallon for hydroponics solution (liquid) nitrogen based	5	Gal	1,900.00	9,500.00
59	Hydroponics Nutrient Solution Authentic SNAP Hydroponics Nutrient Solution from UPLB 1 set consists of 500ml solution A and 500ml solution B, Good for approximately 200 liters of water	100	pc	550.00	55,000.00
60	Sodium Hexametaphosphate, AR, 1000g	1	pc	11,880.00	11,880.00
61	Sodium carbonate, AR, 500g	2	pc	2,520.00	5,040.00
62	pH Buffer Solution (NIST Traceable) for: pH 7.00 clear/non-colored solution 1L- with Certification of analysis	1	bottle	2,364.00	2,364.00
63	pH Buffer Solution (NIST Traceable) for: pH 4.00 (clear/non-colored); 1L-with Certification of analysis	1	bottle	2,364.00	2,364.00
64	pH Buffer Solution (NIST Traceable) for: pH 10.00 (clear/non-colored); 1L- with Certification of analysis	1	bottle	2,364.00	2,364.00
65	Standards (NIST Traceable) for: EC Standard, 147uS/cm, 500 ml-with Certification of analysis	1	bottle	4000	4000
66	Standards (NIST Traceable) for: EC Standard, 1413uS/cm, 500 ml-with Certification of analysis	1	bottle	4000	4000
SWRRD 045 RD Other Regular					

67	NIST Traceable pH Buffer Solution - pH 7.00 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	5	bottle	2,364.00	11,820.00
68	NIST Traceable pH Buffer Solution - pH 4.00 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	1	bottle	2,364.00	2,364.00
69	NIST Traceable pH Buffer Solution - pH 9 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	2	bottle	2,364.00	4,728.00
70	NIST Traceable pH Buffer Solution - pH 10 1L - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	1	bottle	2,364.00	2,364.00
71	NIST Traceable - AAS Standard -Nitrate 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	1	bottle	8,000.00	8,000.00
72	NIST Traceable - AAS Standard -Ammonia 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	1	bottle	6,500.00	6,500.00
73	NIST Traceable - AAS Standard -Sulfate 500 mL (1000ppm) - at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	1	bottle	6,500.00	6,500.00
74	Hydrochloric Acid, AR grade, 2.5L	1	bottle	2,400.00	2,400.00
75	Tin Containers mega box light weight 8 x 5mm, set of 1000 (240 06410)	1	set	20,200.00	20,200.00
76	Tin Capsules Pressed Ultra-Light Weight 8 x 5mm, pack of 100 (240 06410)	4	pack	2,300.00	9,200.00
77	Prepacked Reactor CHNS/NCS/S INC CRUCIBLE (468 02015)	1	pc	25,000.00	25,000.00
	TOTAL:				<u>1,052,958.00</u>

Supply and Delivery of Laboratory Supplies for CY 2023

Item No.	Description	Qty	Unit	Unit Cost	Total
	LSD 085 Regular				
1	PET Bottle, capacity: 300ml, Dia:900mm x 120mm, white	150	pc	80.00	12,000.00
2	PET Bottle, capacity: 500ml, Dia:3.74inch x 3.81inch, wide	150	pc	100.00	15,000.00
3	Test tube 13mmx100mm 100pcs/box	1	box	11,000.00	11,000.00
4	Erlenmeyer flask, 125ml, Made of Type 1 Borosilicate glass with rubber stopper	15	pc	280.00	4,200.00
5	Threaded Test Tubes, 30ml, glass tubes made of Type 1 Borosilicate glass with ethanol resistant caps , 20mm x 120mm	25	pc	120.00	3,000.00
6	Erlenmeyer flask, 50ml, Made of Type 1 Borosilicate glass with No. 2 rubber stopper	20	pc	200.00	4,000.00
7	Filter paper, Whatmann No. 2 or equivalent, 100 pcs/box	2	box	1,720.00	3,440.00
8	Pipette tips, 5ml, 100pcs/box	2	box	2,000.00	4,000.00
9	Funnel, Polypropylene, Dia: 100mm, Stem Dia: 11 mm, Stem Length 90 mm	10	pc	250.00	2,500.00
10	Funnel Stand, Wooden, ≥4 holes per stand, funnel cap: 125ml-250ml, hole dia: 50mm, height: adjustable upto 320mm	2	pc	4,680.00	9,360.00
11	Microcentrifuge Tubes, 2ml, colorless, 1000 tubes/pack.	1	pack	4,450.00	4,450.00
12	Amber bottles, Brown, 60ml	2	pc	2,550.00	5,100.00
13	Amber bottles, Brown, 120ml	2	pc	1,550.00	3,100.00
14	Kimwipes, Lint Free, 280 pcs/box	10	box	280.00	2,800.00
	SCMD 036 R&D Corn				
15	Graduated Cylinder, 50 mL, Borosilicate Glass class A with galss stopper	2	pc	1,400.00	2,800.00
16	Graduated Cylinder, 100 mL, Borosilicate Glass class A with galss stopper	2	pc	1,400.00	2,800.00
17	Plastic scoop (for 5g, Volume: ~3.85cm ³ , Inner Diameter: 1cm, Cylinder Height 4.9cm, Handle length: 5cm)	50	pc	25.00	1,250.00
18	Plastic scoop (for 2g soil,Volume: ~ 1.57cm ³ , Inner Diameter: 10mm, Cylinder Height: 20mm, Handle lenght: 5cm)	50	pc	25.00	1,250.00
19	Laboratory Gloves, Nitrile, 100's/box, small	4	box	550.00	2,200.00
20	Laboratory Gloves, Nitrile, 100's/box, medium	5	box	550.00	2,750.00
21	Laboratory Gloves, Nitrile, 100's/box, large	5	box	550.00	2,750.00
22	Non-woven disposable face mask with ear loop about 3-4 ply, 50pcs/box	17	box	400.00	6,800.00
23	Glassware Liquid Cleaner Specifications: Liquid, alkaline and phosphate-free concentrate Volume: 5 Liters Sequestering agent content (alkalimetric): 8.5-10% Density: 1.05-1.09 Free alkali (as NaOH): 1.5-2.5% Phosphate: ≤ 0.002% Inclusions:Safety Data Sheet (SDS), Certificate of Analysis (CoA)	2	bottle	8,400.00	16,800.00
24	Concentrated Liquid Detergent, 5L	8	bottle	950.00	7,600.00
25	Wash Bottle, 500 mL capacity, opaque color	5	pc	360.00	1,800.00
	LUPEZ 065 Hydroponics				
26	Graduated Cylinder 1000ml glass	5	pc	3,200.00	19,200.00
27	Glass Stirring Rod	6	pc	200.00	1,200.00
28	Wash bottle (500 ml) Polyethylene, easy to squeeze, leak-proof, 500 ml"	2	pc	800.00	1,600.00
29	Liquid detergent, phospate free, antibacterial, 5 liters	1	Gal	8,400.00	3,000.00

30	Shelf trolley plastic with tray shelves,Number of bases: 3; Height: 72cm Length: 70x44cm	1	pc	2,000.00	2,000.00
31	Beaker Lab Glass 600ml	5	pc	2,100.00	12,600.00
32	Soil Hydrometer ASTM for Soil Texture Determination	1	pc	15,000.00	15,000.00
33	Thermometer (-50°C-150°C) 8inch Long-Stem Accuracy $\pm 0.2^{\circ}\text{C}$	2	pc	12,000.00	24,000.00
34	Mortal and Pestle Made of glazed heavy-porcelain 320ml capacity, included rubber tip pestle	1	pc	5,500.00	5,500.00
35	Spatula (4 x 0.75in Blade)	2	pc	2,800.00	5,600.00
36	3oz. Tinned-Metal Sample Container (Package of 12)	1	set	6,500.00	6,500.00
37	Volumetric Lab Flask 500ml	6	pc	4,100.00	24,600.00
	TOTAL:				253,550.00

Supply and Delivery of Reference Materials for CY 2023

Item No.	Description	Qty	Unit	Unit Cost	Total
	LSD 084 PD 1435/ ISO Maintenance/ Regular				
	PD 1435				-
1	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle	10	bottle	26,000.00	260,000.00
2	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical	1	bottle	80,000.00	80,000.00
	ISO Maintenance				
3	Certified Reference Material for Compost (pH, Moisture, Total N, Total Ca, Total Cu, Total Fe, Total K, Total Mg, Total Mn, Total Na, Total P, total Zn), 50-100g/bottle	1	bottle	25,000.00	25,000.00
4	Certified Reference Material for Land Plants (Total N, Total Ca, Total Cu, Total Fe, Total K, Total Mg, Total Mn, Total Na, Total P, total Zn), - 30g/bottle	1	bottle	60,000.00	60,000.00
	Regular				
5	Certified Reference Material for Water (BOD and COD), 15-20 mL	1	bottle	25,000.00	25,000.00
6	Certified Reference Material-Microbial Identification, Aerobic Bacteria (ampoule)	1	Ampoule	4,000.00	4,000.00
7	Certified Reference Material-Microbial Identification, Anaerobic Bacteria (ampoule)	1	Ampoule	4,000.00	4,000.00
8	Certified Reference Material-Microbial Identification, Yeast (ampoule)	1	Ampoule	4,000.00	4,000.00
9	Certified Reference Material-Microbial Identification, Multicellular Fungi (ampoule)	1	Ampoule	4,000.00	4,000.00
10	Certified Reference Material for Water-Microbial, Heterotrophic Plate Count, Quality Control -Heterotrophic bacteria present in the range 5-500 CFU/mL or MPN/mL	1	Ampoule	25,000.00	25,000.00
	SCMD 036 R&D Corn				
11	EnviroMAT SS-1	1	bot	25,000.00	25,000.00
12	EnviroMAT SS-1	1	bot	25,000.00	25,000.00
	TOTAL:				541,000.00