



Republic of the Philippines  
Department of Agriculture  
**BUREAU OF SOILS AND WATER MANAGEMENT**  
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**BSWM- BIDS AND AWARDS COMMITTEE  
SUPPLEMENTAL BID BULLETIN NO. 3**

**CONTRACT: Supply and Delivery of various Chemicals, Laboratory supplies, Microbiological Parameters and Certified and Quality Reference Materials for CY 2025 - IB No. BSWM 2025-02-032**

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 AS AN INTEGRAL PART OF THE BID DOCUMENT.**

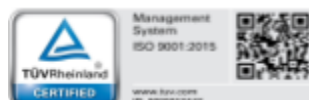
**I. AMENDMENTS OF THE BIDDING DOCUMENT:**

ORIGINAL	AMENDED
<ul style="list-style-type: none"><li>• A complete set of Bidding Documents may be acquired by interested Bidders until March 10, 2025 3:00PM.</li><li>• Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before March 11, 2025, 9:00AM. Late bids shall not be accepted.</li><li>• Bid opening shall be on March 11, 2025, 9:30AM at the BSWM Convention Hall, 2nd Floor, SRDC Bldg., Visayas Ave. Cor. Elliptical Road, Diliman, Quezon City and through videoconferencing/webcasting via ZOOM and streamed live through BSWM Procurement Service FB Page. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.</li></ul>	<ul style="list-style-type: none"><li>• A complete set of Bidding Documents may be acquired by interested Bidders until <b>March 11, 2025 3:00PM.</b></li><li>• Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below <b><u>on or before March 12, 2025, 9:00AM.</u></b> Late bids shall not be accepted.</li><li>• <b>Bid opening shall be on <u>March 12, 2025, 9:30AM</u></b> at the BSWM Convention Hall, 2nd Floor, SRDC Bldg., Visayas Ave. Cor. Elliptical Road, Diliman, Quezon City and through videoconferencing/webcasting via ZOOM and streamed live through BSWM Procurement Service FB Page. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.</li></ul>
	<p><b><u>Revised Section VII. Technical Specifications FOR LOT 1</u></b> <b><u>(please refer to Annex A of this Bid Bulletin)</u></b></p>

For guidance and information of all concerned.

**DENISE A. SOLANO**

BAC Chairperson



**ANNEX A**

**REVISED SECTION VII. TECHNICAL SPECIFICATIONS**

**LOT 1: SUPPLY AND DELIVERY OF VARIOUS CHEMICALS**

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
2025-00-0057			<b>Chemical Filtering Supplies</b>			
			Water Chemistry Section			
		1	ELUENT SOLUTION  Sodium Carbonate-Sodium Bicarbonate mixture, 500 mL/bottle Sodium carbonate (7.5) : sodium hydroxide (0.75), AR grade	5	Bottle	
		2	Diphenylamine, 500 g, AR grade	5	Bottle	
		3	Iron Powder, 99%, AR grade, 500 g	5	Bottle	
		4	Silver Nitrate, AR, 250g/bottle	5	Bottle	
		5	Iron Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		6	Manganese Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		7	Zinc Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		8	Copper Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		9	Calcium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		10	Magnesium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		11	Sodium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	
		12	Potassium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent , dissolved in ≤ 2% HNO3	2	Bottle	
		13	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 500ppm or equivalent, no formaldehyde content	2	Bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		14	Standard metal solutions for ICP, NIST Traceable with COA, 500mL/bottle: Cu, Fe, Mn, Zn, Ca, Mg, Na, K, Pb, As, Hg, Cd, Ag, Cr, Ni, 500ppm or equivalent	2	Bottle	
		15	Nitrate Standard, AR, 500mL/btl, NIST Traceable with COA, 500ppm or equivalent	2	Bottle	
		16	orthophenanthroline 99%, AR grade, 25 g/bottle	1	Bottle	
		17	Titriplex V, 100g, AR Grade	5	Bottle	
		18	Aspartic Acid Standard for NC Analysis 10g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	
		19	Sulfanilamide Standard for NC Analysis 1-2g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	
		20	Vanadium Pentoxide, 1g, 90-99.9% Purity	5	Bottle	
		21	EC Conductivity Standard, NIST Traceable - 111.8 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	
		22	EC Conductivity Standard, NIST Traceable - 12880 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	
		23	EC Conductivity Standard, NIST Traceable - 1413 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	
		24	EC Conductivity Standard, NIST Traceable - 147 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	
		25	EC Conductivity Standard, NIST Traceable - 84 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	
			Water Test Kit			
		26	Ammonium molybdate, AR, powder, 500g/btl	20	Bottle	
		27	Potassium Antimony Tartate, AR, 500g/bottle	10	Bottle	
		28	Ascorbic acid, AR, 100g/bottle at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	15	Bottle	
		29	Sulphanilamide, AR, 50 g/btl	15	Bottle	
		30	N-(1-naphtyl)-ethylenediamine dihydrochloride (NED), AR, 100g/btl	15	Bottle	
		31	Zinc powder, 99.99%, AR, 10g/btl	10	Bottle	
		32	Zn wire reel, 1m, diameter 1.0mm, 99.99+%	3	Bottle	
		33	Silver Nitrate, AR, 250g/btl	10	Bottle	
		34	Sodium chloride, AR, 500g/btl	5	Bottle	
		35	Bromocresol Green, AR, 5g/btl	3	Bottle	
		36	Methyl Red, AR, 5g/btl	3	Bottle	
		37	Methyl Orange ACS reagent, Dye content 85 % 25g/btl	10	Bottle	
		38	Ethyl alcohol ACS spectrophotometric grade, 95.0% 1L/btl	5	Bottle	
		39	Phenolphthalein, AR, 500g/btl	5	Bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		40	pH Buffer 7.00, 1L/btl, NIST Traceable, with COA	3	Bottle	
		41	pH Buffer 4.00, 1L/btl, NIST Traceable, with COA	3	Bottle	
		42	pH Buffer 10.00, 1L/btl, NIST Traceable, with COA	3	Bottle	
		43	Standard metal solutions in $\leq 2\%$ HNO <sub>3</sub> for ICP, NIST Traceable with COA, 1000 ppm, 500mL/bottle: Cu, Fe, Mn, Zn, Ca, Mg, Na, K, Pb, As, Hg, Cd, Ag, Cr, Ni,	1	Bottle	
			Soil Physics Section			
		44	Sodium Hexametaphosphate, AR, 500g/bottle	20	Bottle	
		45	Sodium Citrate Tribasic Dihydrate, AR, 500g/bottle	10	Bottle	
		46	Sodium Bicarbonate, AR, 500g/bottle	10	Bottle	
		47	Sodium Dithionite, AR, 500g/bottle	10	Bottle	
		48	Sodium Acetate, AR, 500g/bottle	10	Bottle	
		49	Sodium Chloride, AR, 500g/bottle	10	Bottle	
		50	Amyl Alcohol, $\geq 99\%$ , 1000ml/bottle	3	Bottle	
			Soil Chemistry			
		51	L-lysine Monohydrochloride, with Certificate of Analysis AR/NIST Traceable, 100g/bottle	2	Bottle	
		52	Tris(hydroxymethyl)aminomethane (THAM), NIST Traceable with Certificate of Analysis, $\geq 99\%$ Powder, 100g/bottle	2	Bottle	
		53	Sucrose Standard, NIST Traceable with Certificate of Analysis, 100g/bottle	2	Bottle	
		54	NIST Traceable pH Buffer Solution pH 7.00 (yellow); 1L/bottle	2	Bottle	
		55	NIST Traceable pH Buffer Solution pH 4.00 (pink); 1L/bottle	2	Bottle	
		56	NIST Traceable pH Buffer Solution pH 10.00 (blue); 1L/bottle	2	Bottle	
		57	EC Standard NIST Traceable with Certificate of Analysis, 84uS/cm, 500 ml/bottle	2	Bottle	
		58	EC Standard NIST Traceable with Certificate of Analysis, 12.88mS/cm, 5bottle x60mL	2	Bottle	
		59	EC Standard NIST Traceable with Certificate of Analysis, 147uS/cm, 500 ml/bottle	2	Bottle	
		60	EC Standard NIST Traceable with Certificate of Analysis, 1413uS/cm, 500 ml/bottle	2	Bottle	
		61	Iron Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent,	2	Bottle	
		62	Manganese Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent,	2	Bottle	
		63	Zinc Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	
		64	Copper Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		65	Calcium Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	
		66	Magnesium Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	
		67	Sodium Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	
		68	Potassium Standard in $\leq 2\%$ HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	
		69	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis , 1000 ppm or equivalent, no formaldehyde content	2	Bottle	
		70	Nitrate Standard, AR, 500mL/btl, NIST Traceable with COA, 1000 ppm or equivalent	2	Bottle	
		71	Sodium hydroxide, flakes, 2 Kg/pack, Technical Grade	40	Bottle	
		72	Sodium Bicarbonate, AR, 500g/bottle	10	Bottle	
		73	Ammonium Acetate, AR 98%, 500g/bottle	10	Bottle	
		74	Ammonium Fluoride, AR grade, 500g/bottle	5	Bottle	
		75	Ammonium Sulfate, AR, 500g/bottle	5	Bottle	
		76	Copper sulfate pentahydrate, AR, 500g/bottle	10	Bottle	
		77	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	5	Bottle	
		78	Ascorbic Acid, 100g/bottle, AR	5	Bottle	
		79	Potassium Antimony Tartrate, AR, 500g/bottle	5	Bottle	
		80	Methyl Red, AR, 5g/bottle	5	Bottle	
		81	Bromocresol green, AR, 5g/bottle	5	Bottle	
		82	Boric Acid AR, 500g/bottle	10	Bottle	
		83	Activated Charcoal, AR, Phosphate-free, 1kg/bottle	10	Bottle	
		84	Ammonium metavanadate, AR, powder, 500g/bottle	1	Bottle	
		85	Ammonium hydroxide, conc., AR, 2.5 L/bottle	1	Bottle	
		86	Potassium chloride, AR, 500g/bottle	10	Bottle	
		87	Calcium Carbonate, 500g/bottle, AR	5	Bottle	
		88	Diethyltriaminepentaacetic acid (DTPA), AR, 100g/bottle	2	Bottle	
		89	Potassium Nitrate, AR, 500g/bottle	2	Bottle	
		90	Magnesium Chloride hexahydrate, 500g/bottle, AR	2	Bottle	
		91	Kjeltabs VCM, Content per tablet: 3.5g Potassium Sulfate and 0.1g Copper Sulfate, 1000pcs/box. Attached SDS/COA of item	2	Bottle	
		92	Sodium Nitrite, AR, 500g/bottle	20	Bottle	
		93	Ferrous Sulfate Heptahydrate, ACS reagent, $\geq 99\%$ , 250g/bottle	6	Bottle	
		94	Barium Chloride dihydrate, AR, 500g/bottle	2	Bottle	
		95	Orthophosphoric Acid (Analytical/Lab Grade; Liquid; Odorless; Completely Miscible; 1.685 g/cm <sup>3</sup> density; $>99\%$ Purity), 2.5L/bottle	10	Bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		96	Ethanol, technical grade, 95%, 20L/ carboy	20	Bottle	
		97	Triethanol amine, AR, 1 L/Bottle	10	Bottle	
		98	Ethanol AR ≥ 99% 2.5 L/bottle	30	Bottle	
		99	ICP-OES Standard - Arsenic in ≤ 2% HNO <sub>3</sub> ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L As in nitric acid (nominal concentration), atleast 100 mL	1	Bottle	
		100	ICP-OES Wavelength Calibration Solution; 500 mL, contains 50 mg/L Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn and 500 mg/L K in 2 % HNO <sub>3</sub> with Certificate of Analysis & Material Safety Data Sheet	3	Bottle	
		101	ICP-OES Standard - Aluminum ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		102	ICP-OES Standard - Boron ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		103	ICP-OES Standard - Barium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		104	ICP-OES Standard - Cadmium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		105	ICP-OES Standard - Calcium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	3	Bottle	
		106	ICP-OES Standard - Chromium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		107	ICP-OES Standard - Cobalt ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		108	ICP-OES Standard - Copper ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		109	ICP-OES Standard - Iron ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		110	ICP-OES Standard - Lead ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	



PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		111	ICP-OES Standard - Magnesium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		112	ICP-OES Standard - Manganese ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		113	ICP-OES Standard - Molybdenum ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		114	ICP-OES Standard - Nickel ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		115	ICP-OES Standard - Potassium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		116	ICP-OES Standard - Sodium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L As in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	2	Bottle	
		117	ICP-OES Standard - Strontium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in $\leq 2\%$ HNO <sub>3</sub> (nominal concentration), atleast 100 mL	1	Bottle	
		118	ICP-OES Standard - Zinc ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in nitric acid (nominal concentration), atleast 100 mL	2	Bottle	
		119	Aspartic Acid Standard for NC Analysis 10g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	
		120	Sulfanilamide Standard for NC Analysis 1-2g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	
		121	Set of 7 Soil Standards for Combustion Analysis NIST Traceable with Certificate of Analysis 30 g per Bottle (7 Bottles Total) Soil Parameters: Total Nitrogen (Combustion Method) Total Carbon (Combustion Method) Total Organic Carbon (Combustion Method)	2	Bottle	
		122	Ethylenediaminetetraacetic acid (EDTA), AR, 500g/bottle	2	Bottle	
		123	Ammonium Fluoride , AR grade, 98% 500 g/bottle	1	Bottle	
		124	Vanadium Pentoxide, 1g, 90-99.9% Purity	5	Bottle	
			RST			
		125	Bromocresol green, AR, 5g/bottle	5	Bottle	
		126	Chlorophenol Red Indicator, AR, 5g/bottle	5	Bottle	
		127	Bromothymol Blue Indicator, AR, 5g/bottle	5	Bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		128	Ammonium Fluoride, AR grade, 500g/bottle	4	Bottle	
		129	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	10	Bottle	
		130	Boric Acid, AR, 500g/bottle, AR, 500g/bottle	10	Bottle	
		131	Sodium Nitrite, Extrapure, AR, 500g/bottle	30	Bottle	
		132	Sodium Cobaltinitrite, AR, 100g/bottle	10	Bottle	
		133	Ethanol, AR $\geq 95\%$ 2.5 L/bottle	50	Bottle	
		134	Ascorbic acid, AR $\geq 99\%$ , 100g/bottle	10	Bottle	
		135	Potassium Antimony Tartate, AR $\geq 99\%$ , 100g/bottle	10	Bottle	
2025-00-0058						
		136	Ammonium Floride AR grade, 50g/bottle	1	bottle	
		137	Sodium Bicarbonate, AR, 500g/bottle	5	bottle	
		138	Ascorbic Acid, 100g/bottle, AR	1	bottle	
		139	Orthophosphoric Acid (Analytical/Lab Grade; Liquid; Odorless; Completely Miscible; 1.685 g/cm <sup>3</sup> density; >99% Purity), 500ml/bottle	1	bottle	
		140	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	1	bottle	
		141	Diphenylamine ACS Reagent/AR 100g	1	bottle	
		142	Calcium Chloride Dihydrate, ACS, 500g/bottle	1	bottle	
		143	Salicylic Acid, AR, 500 g/bottle	1	bottle	
		144	Cesium Chloride, 99.9 % 25 grams	1	bottle	
		145	Tris(hydroxymethyl)aminomethane (THAM), NIST Traceable with Certificate of Analysis, $\geq 99\%$ Powder, 100g/bottle	1	bottle	
		146	pH Buffer Solution (NIST Traceable pH Buffer Solution with COA -pH 4.00 (colored buffer solution): 1L)	2	bottle	
		147	pH Buffer Solution(NIST Traceable pH Buffer Solution with COA -pH 7.00 (colored buffer solution): 1L)	2	bottle	
		148	pH Buffer Solution(NIST Traceable pH Buffer Solution with COA -pH 10.00 (colored buffer solution): 1L)	2	bottle	
		149	Calcium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		150	Magnesium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		151	Sodium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		152	Potassium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		153	Iron Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	



PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		154	Manganese Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		155	Zinc Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		156	Copper Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		157	Chromium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
		158	Lead Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	
2025-00-0058		159	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 1000ppm	1	bottle	
		160	Cadmium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 1000ppm	1	bottle	
2025-00-0058		161	Triethanol amine, AR, 1 L/Bottle	1	Bottle	
		162	Ethanol AR ≥ 99% 2.5 L/bottle	2	Bottle	
		163	Ferrous Sulfate Heptahydrate, ACS reagent, ≥99%, 250g/bottle	3	Bottle	
2025-01-0180			Soil Chemistry			
		164	Barium Chloride dihydrate, AR, 500g/bottle	20	Bottle	
		165	Ethanol, AR Grade, purity ≥ 95% 4L/bottle	60	Bottle	
		166	Sodium Hydroxide, >=98%, pellets(anhydrous), 500 g/ bottle	10	Bottle	
		167	pH Buffer 2.00, 1L/btl, NIST Traceable, with COA	3	Bottle	
		168	L-lysine Monohydrochloride, with Certificate of Analysis AR/NIST Traceable , 100g/bottle	2	Bottle	
		169	Copper sulfate pentahydrate, AR, 500g/bottle	2	Bottle	
		170	Potassium Sulfate AR, >99%, 500g/bottle	3	Bottle	
		171	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	2	Bottle	
		172	Diethyltriaminepentaacetic acid (DTPA), AR, 100g/bottle	4	Bottle	
		173	Ascorbic Acid, 100g/bottle, AR	10	Bottle	
			Soil Salinity			
		174	Magnesium Chloride hexahydrate, AR, 500g/bottle	2	Bottle	
		175	Potassium nitrate, AR, 500 g/bottle	2	Bottle	
		176	Sodium Sulfate, ACS, 99%, anhydrous, granular, 500 g/bottle	2	Bottle	
		177	Sodium acetate, 99%, 1 kg/bottle	2	Bottle	



PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		178	Gum acacia, AR, 500 g/bottle	2	Bottle	
		179	Barium chloride dihydrate, 500 g/bottle	2	Bottle	
		180	Acetic acid, AR grade,99%, 1 L, with SDS	2	Bottle	
		181	Sodium Carbonate, AR, 500g/btl, with SDS	2	Bottle	
		182	1000 ppm Chloride Standard, 500 mL/bottle, with Certificate of Analysis	2	Bottle	
		183	1000 ppm Sulfate Standard, 500 mL/ bottle with Certificate of Analysis	2	Bottle	
		184	Cesium Chloride, AR, 100 g with SDS	2	Bottle	
		185	Perchloric acid, 70% solution in water with SDS	2	Bottle	
			Water Chemistry Section			
		186	Barium Chloride dihydrate, AR, 500g/bottle with COA	10	Bottle	
		187	ELUENT SOLUTION  Sodium Carbonate-Sodium Hydroxide 20x (Supelco, 150 mM : 15 mM) mixture, 1 L/bottle	10	Bottle	
			Soil Microbiology			
		188	Rose Bengal Chloramphenicol Agar (RBC)	2	Bottle	
		189	Pikovskaya's Agar, 500g/bottle	2	Bottle	
		190	Yeast Mannitol Agar w/ 1.5% Agar 500G / bottle	2	Bottle	
		191	Ethanol 95% Technical Grade, 1 carboy	2	Drum	
		192	Plate Count Agar, 500g/bottle, pellets, pH 6.8 - 7.2	2	Bottle	
		193	Ethyl Alcohol 70% Spray 350mL	10	Bottle	
		194	Aleksandrow Agar 500g.	2	Bottle	
2025-01-0181			Provision of Chemical and Filtering Supplies-Laboratory Supplies			
			NSHP			
			BARMM			
		195	Acetic Acid, 2.5 L/bottle	2	bottle	
		196	Ammonium Acetate, AR, 500 g/bottle	2	bottle	
		197	Ammonium fluoride, NH <sub>4</sub> F, 500 g/bot	2	bottle	
		198	Ammonium Molybdate, AR, 500 g/bot	2	bottle	
		199	Ammonium Sulfate, AR, 500 g/bottle	2	bottle	
		200	Amyl Alcohol, AR, 500 mL/bottle	2	bottle	
		201	Ascorbic Acid, AR, 100g/bottle	2	bottle	
		202	Boric Acid, AR, 500 g/bottle	2	bottle	
		203	Bromocresol Green, AR, 5 g/bottle	1	bottle	
		204	Bromthymol Blue, AR, 5 g/bottle	1	bottle	
		205	Calcium Chloride, 1000 g/bottle, AR	2	bottle	
		206	Calcium Chloride, AR, 1000 g/bottle	2	bottle	
		207	Charcoal; AR, Phosphate Free, 2kg/bottle	2	bottle	
		208	Chlorophenol Red, AR, 5 g/bottle	2	bottle	
		209	Compost Certified Reference Material (AgroMAT CP-1), 100g/bottle with Certificate of Analysis	3	bottle	
		210	Copper Sulfate, AR, 500 g/bottle	5	bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
		211	Diethylenetriaminepentacetic acid (DTPA), AR, 100 g/bottle	2	bottle	
		212	EC Standard: 147 and 1413 uS/cm at 25oC, NIST, 500 mL	2	bottle	
		213	Ethanol, AR, 2.5 L/bottle	5	bottle	
		214	Kjeltabs, Cu, AR, 1000 pcs/bottle	2	bottle	
		215	Lanthanum Oxide, AR, 100 g/bottle	8	bottle	
		216	Lysine, AR, 100 g/bottle	2	bottle	
		217	Methanol, AR, 2.5 L/bottle	2	bottle	
		218	NIST Traceable standard buffer solutions of pH 10, 1000 mL/bot with Certificate of Analysis	3	bottle	
		219	NIST Traceable standard buffer solutions of pH 4, 1000 mL/bot with Certificate of Analysis	3	bottle	
		220	NIST Traceable standard buffer solutions of pH 7, 1000 mL/bot with Certificate of Analysis	3	bottle	
		221	NIST Traceable standard buffer solutions of pH 9, 1000 mL/bot with Certificate of Analysis	8	bottle	
		222	Phosphorus Standard, NIST, 1000 mg/L, 250 mL/bottle, no formaldehyde content with Certificate of Analysis	4	bottle	
		223	Potassium Antimony Tartrate, AR, 100 g/bottle	2	bottle	
		224	Potassium Chloride, AR, 1000 g/bottle	4	bottle	
		225	Potassium Dichromate, AR, 1kg/bottle	3	bottle	
		226	Potassium Dihydrogen Phosphate (KH <sub>2</sub> PO <sub>4</sub> ), AR, 500 g/bottle	2	bottle	
		227	Potassium Standard, NIST, 1000 mg/L, 250 mL/bottle	4	bottle	
		228	Potassium Sulfate, AR, 500 g/bottle	4	bottle	
		229	Salicylic Acid, AR, 500 g/bottle	2	bottle	
		230	Silver Sulfate, Ag <sub>2</sub> SO <sub>4</sub> , AR, 500 g/bottle	2	bottle	
		231	Sodium Bicarbonate, AR, 500 g/bottle	2	bottle	
		232	Sodium Carbonate, AR, 500 g/bottle	2	bottle	
		233	Sodium hexametaphosphate, AR, 500 g/bottle	2	bottle	
		234	Sodium hexanitrocobaltate (III) (Na <sub>3</sub> CO(NO <sub>2</sub> ) <sub>6</sub> ), AR, 500 g/bottle	2	bottle	
		235	Sodium Hydroxide Pellets, AR, 1000 g/bottle	4	bottle	
		236	Sodium Nitrite, AR, 500 g/bottle	2	bottle	
		237	Sodium Thiosulfate Pentahydrate, AR, 500g/bottle	2	bottle	
		238	Soil Certified Reference Material (AgroMAT AG-1), 100g/bottle with Certificate of Analysis	5	bottle	
		239	Sucrose, AR, 500 g/bottle	2	bottle	
		240	Triethanolamine (TEA), AR, 2.5 L/bottle	2	bottle	
		241	Tris(hydroxymethyl)aminomethane (THAM), NIST, 100g/bottle with Certificate of Analysis	1	bottle	

PR Number	End User	item no.	Item	Qty	Unit	Statement of Compliance
			Place of Delivery:			
			For Line item no. 195-220, 222-241 Regional Soils Laboratory-BARMM, MAFAR Extension Building, Sinsuat Ave, Brgy. Rosary Heights XIII, Cotabato City  For line item no. 221: BSWM, Quezon City			

**LOT 1: SUPPLY AND DELIVERY OF VARIOUS CHEMICALS**

PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
2025-00-0057			Chemical Filtering Supplies				
			Water Chemistry Section				
		1	ELUENT SOLUTION  Sodium Carbonate-Sodium Bicarbonate mixture, 500 mL/bottle Sodium carbonate (7.5) : sodium hydroxide (0.75), AR grade	5	Bottle	12,000.00	60,000.00
		2	Diphenylamine, 500 g, AR grade	5	Bottle	12,000.00	60,000.00
		3	Iron Powder, 99%, AR grade, 500 g	5	Bottle	6,000.00	30,000.00
		4	Silver Nitrate, AR, 250g/bottle	5	Bottle	18,000.00	90,000.00
		5	Iron Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		6	Manganese Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		7	Zinc Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		8	Copper Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		9	Calcium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		10	Magnesium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		11	Sodium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle , <b>500-1000ppm</b> or equivalent, dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		12	Potassium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, <b>500-1000ppm</b> or equivalent , dissolved in ≤ 2% HNO3	2	Bottle	6,000.00	12,000.00
		13	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 500ppm or equivalent, no formaldehyde content	2	Bottle	6,000.00	12,000.00
		14	Standard metal solutions for ICP, NIST Traceable with COA, 500mL/bottle: Cu, Fe, Mn, Zn, Ca, Mg, Na, K, Pb, As, Hg, Cd, Ag, Cr, Ni, 500ppm or equivalent	2	Bottle	24,000.00	48,000.00
		15	Nitrate Standard, AR, 500mL/btl, NIST Traceable with COA, 500ppm or equivalent	2	Bottle	8,400.00	16,800.00
		16	orthophenanthroline 99%, AR grade, 25 g/bottle	1	Bottle	36,000.00	36,000.00
		17	Titriplex V, 100g, AR Grade	5	Bottle	13,200.00	66,000.00
		18	Aspartic Acid Standard for NC Analysis 10g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	11,040.00	33,120.00

PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		19	Sulfanilamide Standard for NC Analysis 1-2g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	4,440.00	13,320.00
		20	Vanadium Pentoxide, 1g, 90-99.9% Purity	5	Bottle	3,000.00	15,000.00
		21	EC Conductivity Standard, NIST Traceable - 111.8 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	5,000.00	15,000.00
		22	EC Conductivity Standard, NIST Traceable - 12880 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	5,000.00	15,000.00
		23	EC Conductivity Standard, NIST Traceable - 1413 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	5,000.00	15,000.00
		24	EC Conductivity Standard, NIST Traceable - 147 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	5,000.00	15,000.00
		25	EC Conductivity Standard, NIST Traceable - 84 uS/cm, with Certificate of Analysis (COA), 500 mL/bottle	3	Bottle	5,000.00	15,000.00
			Water Test Kit				0.00
		26	Ammonium molybdate, AR, powder, 500g/btl	20	Bottle	12,000.00	240,000.00
		27	Potassium Antimony Tartate, AR, 500g/bottle	10	Bottle	3,000.00	30,000.00
		28	Ascorbic acid, AR, 100g/bottle at least 1 year expiration date from date of delivery with certificate of analysis, safety data sheet, and expiry date/shelf life	15	Bottle	3,000.00	45,000.00
		29	Sulphanilamide, AR, 50 g/btl	15	Bottle	8,400.00	126,000.00
		30	N-(1-naphtyl)-ethylenediamine dihydrochloride (NED), AR, 100g/btl	15	Bottle	3,600.00	54,000.00
		31	Zinc powder, 99.99%, AR, 10g/btl	10	Bottle	27,600.00	276,000.00
		32	Zn wire reel, 1m, diameter 1.0mm, 99.99%+	3	Bottle	15,600.00	46,800.00
		33	Silver Nitrate, AR, 250g/btl	10	Bottle	3,600.00	36,000.00
		34	Sodium chloride, AR, 500g/btl	5	Bottle	6,960.00	34,800.00
		35	Bromocresol Green, AR, 5g/btl	3	Bottle	5,640.00	16,920.00
		36	Methyl Red, AR, 5g/btl	3	Bottle	4,440.00	13,320.00
		37	Methyl Orange ACS reagent, Dye content 85 % 25g/btl	10	Bottle	5,400.00	54,000.00
		38	Ethyl alcohol ACS spectrophotometric grade, 95.0% 1L/btl	5	Bottle	15,000.00	75,000.00
		39	Phenolphthalein, AR, 500g/btl	5	Bottle	3,360.00	16,800.00
		40	pH Buffer 7.00, 1L/btl, NIST Traceable, with COA	3	Bottle	6,960.00	20,880.00
		41	pH Buffer 4.00, 1L/btl, NIST Traceable, with COA	3	Bottle	6,960.00	20,880.00
		42	pH Buffer 10.00, 1L/btl, NIST Traceable, with COA	3	Bottle	6,960.00	20,880.00
		43	Standard metal solutions in $\leq 2\%$ HNO <sub>3</sub> for ICP, NIST Traceable with COA, 1000 ppm, 500mL/bottle: Cu, Fe, Mn, Zn, Ca, Mg, Na, K, Pb, As, Hg, Cd, Ag, Cr, Ni,	1	Bottle	24,000.00	24,000.00
			Soil Physics Section				0.00
		44	Sodium Hexametaphosphate, AR, 500g/bottle	20	Bottle	3,000.00	60,000.00
		45	Sodium Citrate Tribasic Dihydrate, AR, 500g/bottle	10	Bottle	1,800.00	18,000.00
		46	Sodium Bicarbonate, AR, 500g/bottle	10	Bottle	3,000.00	30,000.00
		47	Sodium Dithionite, AR, 500g/bottle	10	Bottle	3,600.00	36,000.00
		48	Sodium Acetate, AR, 500g/bottle	10	Bottle	1,800.00	18,000.00
		49	Sodium Chloride, AR, 500g/bottle	10	Bottle	3,000.00	30,000.00



PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		50	Amyl Alcohol, ≥99%, 1000ml/bottle	3	Bottle	7,200.00	21,600.00
			Soil Chemistry				0.00
		51	L-lysine Monohydrochloride, with Certificate of Analysis AR/NIST Traceable , 100g/bottle	2	Bottle	6,000.00	12,000.00
		52	Tris(hydroxymethyl)aminomethane (THAM), NIST Traceable with Certificate of Analysis, ≥99% Powder, 100g/bottle	2	Bottle	110,000.00	220,000.00
		53	Sucrose Standard, NIST Traceable with Certificate of Analysis, 100g/bottle	2	Bottle	88,000.00	176,000.00
		54	NIST Traceable pH Buffer Solution pH 7.00 (yellow); 1L/bottle	2	Bottle	4,000.00	8,000.00
		55	NIST Traceable pH Buffer Solution pH 4.00 (pink); 1L/bottle	2	Bottle	4,000.00	8,000.00
		56	NIST Traceable pH Buffer Solution pH 10.00 (blue); 1L/bottle	2	Bottle	4,000.00	8,000.00
		57	EC Standard NIST Traceable with Certificate of Analysis, 84uS/cm, 500 ml/bottle	2	Bottle	5,000.00	10,000.00
		58	EC Standard NIST Traceable with Certificate of Analysis, 12.88mS/cm, 5bottle x60mL	2	Bottle	5,000.00	10,000.00
		59	EC Standard NIST Traceable with Certificate of Analysis, 147uS/cm, 500 ml/bottle	2	Bottle	5,000.00	10,000.00
		60	EC Standard NIST Traceable with Certificate of Analysis, 1413uS/cm, 500 ml/bottle	2	Bottle	5,000.00	10,000.00
		61	Iron Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent,	2	Bottle	5,000.00	10,000.00
		62	Manganese Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent,	2	Bottle	5,000.00	10,000.00
		63	Zinc Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		64	Copper Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		65	Calcium Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		66	Magnesium Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		67	Sodium Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		68	Potassium Standard in ≤ 2% HNO <sub>3</sub> (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000 ppm or equivalent	2	Bottle	5,000.00	10,000.00
		69	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis , 1000 ppm or equivalent, no formaldehyde content	2	Bottle	5,000.00	10,000.00
		70	Nitrate Standard, AR, 500mL/btl, NIST Traceable with COA, 1000 ppm or equivalent	2	Bottle	7,000.00	14,000.00
		71	Sodium hydroxide, flakes, 2 Kg/pack, Technical Grade	40	Bottle	2,500.00	100,000.00
		72	Sodium Bicarbonate, AR, 500g/bottle	10	Bottle	2,500.00	25,000.00
		73	Ammonium Acetate, AR 98%, 500g/bottle	10	Bottle	6,000.00	60,000.00
		74	Ammonium Fluoride, AR grade, 500g/bottle	5	Bottle	6,000.00	30,000.00

PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		75	Ammonium Sulfate, AR, 500g/bottle	5	Bottle	2,500.00	12,500.00
		76	Copper sulfate pentahydrate, AR, 500g/bottle	10	Bottle	2,500.00	25,000.00
		77	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	5	Bottle	7,000.00	35,000.00
		78	Ascorbic Acid, 100g/bottle, AR	5	Bottle	3,500.00	17,500.00
		79	Potassium Antimony Tartrate, AR, 500g/bottle	5	Bottle	3,000.00	15,000.00
		80	Methyl Red, AR, 5g/bottle	5	Bottle	2,200.00	11,000.00
		81	Bromocresol green, AR, 5g/bottle	5	Bottle	3,500.00	17,500.00
		82	Boric Acid AR, 500g/bottle	10	Bottle	4,000.00	40,000.00
		83	Activated Charcoal, AR, Phosphate-free, 1kg/bottle	10	Bottle	11,500.00	115,000.00
		84	Ammonium metavanadate, AR, powder, 500g/bottle	1	Bottle	13,000.00	13,000.00
		85	Ammonium hydroxide, conc., AR, 2.5 L/bottle	1	Bottle	3,000.00	3,000.00
		86	Potassium chloride, AR, 500g/bottle	10	Bottle	2,300.00	23,000.00
		87	Calcium Carbonate, 500g/bottle, AR	5	Bottle	4,500.00	22,500.00
		88	Diethyltriarninepentaacetic acid (DTPA), AR, 100g/bottle	2	Bottle	10,000.00	20,000.00
		89	Potassium Nitrate, AR, 500g/bottle	2	Bottle	2,500.00	5,000.00
		90	Magnesium Chloride hexahydrate, 500g/bottle, AR	2	Bottle	3,000.00	6,000.00
		91	Kjeltabs VCM, Content per tablet: 3.5g Potassium Sulfate and 0.1g Copper Sulfate, 1000pcs/box. Attached SDS/COA of item	2	Bottle	30,000.00	60,000.00
		92	Sodium Nitrite, AR, 500g/bottle	20	Bottle	3,000.00	60,000.00
		93	Ferrous Sulfate Heptahydrate, ACS reagent, ≥99%, 250g/bottle	6	Bottle	5,500.00	33,000.00
		94	Barium Chloride dihydrate, AR, 500g/bottle	2	Bottle	3,500.00	7,000.00
		95	Orthophosphoric Acid (Analytical/Lab Grade; Liquid; Odorless; Completely Miscible; 1.685 g/cm3 density; >99% Purity), 2.5L/bottle	10	Bottle	7,000.00	70,000.00
		96	Ethanol, technical grade, 95%, 20L/ carboy	20	Bottle	4,500.00	90,000.00
		97	Triethanol amine, AR, 1 L/Bottle	10	Bottle	15,000.00	150,000.00
		98	Ethanol AR ≥ 99% 2.5 L/bottle	30	Bottle	4,000.00	120,000.00
		99	ICP-OES Standard - Arsenic in ≤ 2% HNO3 ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L As in nitric acid (nominal concentration), atleast 100 mL	1	Bottle	4,440.00	4,440.00
		100	ICP-OES Wavelength Calibration Solution; 500 mL, contains 50 mg/L Al, As, Ba, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sr, Zn and 500 mg/L K in 2 % HNO3 with Certificate of Analysis & Material Safety Data Sheet	3	Bottle	95,040.00	285,120.00
		101	ICP-OES Standard - Aluminum ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO3 (nominal concentration), atleast 100 mL	1	Bottle	4,440.00	4,440.00
		102	ICP-OES Standard - Boron ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO3 (nominal concentration), atleast 100 mL	1	Bottle	4,440.00	4,440.00
		103	ICP-OES Standard - Barium ICP Standard NIST Traceable with Certificate of Analysis, 1 g/L in ≤ 2% HNO3 (nominal concentration), atleast 100 mL	1	Bottle	4,440.00	4,440.00



PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		119	Aspartic Acid Standard for NC Analysis 10g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	11,000.00	33,000.00
		120	Sulfanilamide Standard for NC Analysis 1-2g per bottle, NIST Traceable with Certificate of Analysis	3	Bottle	4,440.00	13,320.00
		121	Set of 7 Soil Standards for Combustion Analysis NIST Traceable with Certificate of Analysis 30 g per Bottle (7 Bottles Total) Soil Parameters: Total Nitrogen (Combustion Method) Total Carbon (Combustion Method) Total Organic Carbon (Combustion Method)	2	Bottle	24,000.00	48,000.00
		122	Ethylenediaminetetraacetic acid (EDTA), AR, 500g/bottle	2	Bottle	8,400.00	16,800.00
		123	Ammonium Fluoride , AR grade, 98% 500 g/bottle	1	Bottle	9,600.00	9,600.00
		124	Vanadium Pentoxide, 1g, 90-99.9% Purity	5	Bottle	3,000.00	15,000.00
			RST				0.00
		125	Bromocresol green, AR, 5g/bottle	5	Bottle	7,200.00	36,000.00
		126	Chlorophenol Red Indicator, AR, 5g/bottle	5	Bottle	7,380.00	36,900.00
		127	Bromothymol Blue Indicator, AR, 5g/bottle	5	Bottle	5,670.00	28,350.00
		128	Ammonium Fluoride, AR grade, 500g/bottle	4	Bottle	10,800.00	43,200.00
		129	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	10	Bottle	10,800.00	108,000.00
		130	Boric Acid, AR, 500g/bottle, AR, 500g/bottle	10	Bottle	3,960.00	39,600.00
		131	Sodium Nitrite, Extrapure, AR, 500g/bottle	30	Bottle	3,600.00	108,000.00
		132	Sodium Cobaltinitrite, AR, 100g/bottle	10	Bottle	14,400.00	144,000.00
		133	Ethanol, AR ≥ 95% 2.5 L/bottle	50	Bottle	6,300.00	315,000.00
		134	Ascorbic acid, AR ≥ 99%, 100g/bottle	10	Bottle	9,480.00	94,800.00
		135	Potassium Antimony Tartate, AR ≥ 99%, 100g/bottle	10	Bottle	11,700.00	117,000.00
Subtotal							5,398,570.00
2025-00-0058							
		136	Ammonium Floride AR grade, 50g/bottle	1	bottle	6,500.00	6,500.00
		137	Sodium Bicarbonate, AR, 500g/bottle	5	bottle	2,500.00	12,500.00
		138	Ascorbic Acid, 100g/bottle, AR	1	bottle	4,000.00	4,000.00
		139	Orthophosphoric Acid (Analytical/Lab Grade; Liquid; Odorless; Completely Miscible; 1.685 g/cm3 density; >99% Purity), 500ml/bottle	1	bottle	6,000.00	6,000.00
		140	Ammonium Molybdate Tetrahydrate, AR, 500g, bottle	1	bottle	4,000.00	4,000.00
		141	Diphenlyamine ACS Reagent/AR 100g	1	bottle	5,000.00	5,000.00
		142	Calcium Chloride Dihydrate, ACS, 500g/bottle	1	bottle	3,000.00	3,000.00
		143	Salicylic Acid, AR, 500 g/bottle	1	bottle	4,000.00	4,000.00
		144	Cesium Chloride, 99.9 % 25 grams	1	bottle	9,000.00	9,000.00
		145	Tris(hydroxymethyl)aminomethane (THAM), NIST Traceable with Certificate of Analysis, ≥99% Powder, 100g/bottle	1	bottle	110,000.00	110,000.00
		146	pH Buffer Solution (NIST Traceable pH Buffer Solution with COA	2	bottle	3,000.00	6,000.00



PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
			-pH 4.00 (colored buffer solution): 1L)				
		147	pH Buffer Solution(NIST Traceable pH Buffer Solution with COA -pH 7.00 (colored buffer solution): 1L)	2	bottle	3,000.00	6,000.00
		148	pH Buffer Solution(NIST Traceable pH Buffer Solution with COA -pH 10.00 (colored buffer solution): 1L)	2	bottle	3,000.00	6,000.00
		149	Calcium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		150	Magnesium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		151	Sodium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		152	Potassium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		153	Iron Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		154	Manganese Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		155	Zinc Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		156	Copper Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	6,000.00	6,000.00
		157	Chromium Standard (NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	10,000.00	10,000.00
		158	Lead Standard(NIST Traceable with Certificate of Analysis), 500mL/bottle, 1000ppm	1	bottle	10,000.00	10,000.00
Subtotal							250,000.00
2025-00-0058		159	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 1000ppm	1	bottle	6,000.00	6,000.00
		160	Cadmium Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis, 1000ppm	1	bottle	10,000.00	10,000.00
Subtotal							16,000.00
2025-00-0058		161	Triethanol amine, AR, 1 L/Bottle	1	Bottle	15,000.00	15,000.00
		162	Ethanol AR ≥ 99% 2.5 L/bottle	2	Bottle	4,000.00	8,000.00
		163	Ferrous Sulfate Heptahydrate, ACS reagent, ≥99%, 250g/bottle	3	Bottle	5,500.00	16,500.00
Subtotal							39,500.00
2025-01-0180			Soil Chemistry				
		164	Barium Chloride dihydrate, AR, 500g/bottle	20	Bottle	3,500.00	70,000.00
		165	Ethanol, AR Grade, purity ≥ 95% 4L/bottle	60	Bottle	3,200.00	192,000.00
		166	Sodium Hydroxide, >=98%, pellets(anhydrous), 500 g/ bottle	10	Bottle	7,600.00	76,000.00
		167	pH Buffer 2.00, 1L/btl, NIST Traceable, with COA	3	Bottle	6,960.00	20,880.00
		168	L-lysine Monohydrochloride, with Certificate of Analysis AR/NIST Traceable , 100g/bottle	2	Bottle	6,000.00	12,000.00
		169	Copper sulfate pentahydrate, AR, 500g/bottle	2	Bottle	2,500.00	5,000.00
		170	Potassium Sulfate AR, >99%, 500g/bottle	3	Bottle	3,200.00	9,600.00





PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		171	Phosphorus Standard, 500ml/bottle, NIST Traceable with Certificate of Analysis	2	Bottle	6,000.00	12,000.00
		172	Diethyltriaminepentaacetic acid (DTPA), AR, 100g/bottle	4	Bottle	10,000.00	40,000.00
		173	Ascorbic Acid, 100g/bottle, AR	10	Bottle	3,500.00	35,000.00
			Soil Salinity				
		174	Magnesium Chloride hexahydrate, AR, 500g/bottle	2	Bottle	9,000.00	18,000.00
		175	Potassium nitrate, AR, 500 g/bottle	2	Bottle	2,500.00	5,000.00
		176	Sodium Sulfate, ACS, 99%, anhydrous, granular, 500 g/bottle	2	Bottle	7,000.00	14,000.00
		177	Sodium acetate, 99%, 1 kg/bottle	2	Bottle	6,000.00	12,000.00
		178	Gum acacia, AR, 500 g/bottle	2	Bottle	2,500.00	5,000.00
		179	Barium chloride dihydrate, 500 g/bottle	2	Bottle	8,160.00	16,320.00
		180	Acetic acid, AR grade,99%, 1 L, with SDS	2	Bottle	11,000.00	22,000.00
		181	Sodium Carbonate, AR, 500g/btl, with SDS	2	Bottle	2,500.00	5,000.00
		182	1000 ppm Chloride Standard, 500 mL/bottle, with Certificate of Analysis	2	Bottle	4,000.00	8,000.00
		183	1000 ppm Sulfate Standard, 500 mL/ bottle with Certificate of Analysis	2	Bottle	5,500.00	11,000.00
		184	Cesium Chloride, AR, 100 g with SDS	2	Bottle	15,000.00	30,000.00
		185	Perchloric acid, 70% solution in water with SDS	2	Bottle	13,000.00	26,000.00
			Water Chemistry Section				
		186	Barium Chloride dihydrate, AR, 500g/bottle with COA	10	Bottle	3,500.00	35,000.00
			ELUENT SOLUTION				144,000.00
		187	Sodium Carbonate-Sodium Hydroxide 20x (Supelco, 150 mM : 15 mM) mixture, 1 L/bottle	10	Bottle	14,400.00	
			Soil Microbiology				
		188	Rose Bengal Chloramphenicol Agar (RBC)	2	Bottle	19,200.00	38,400.00
		189	Pikovskaya's Agar, 500g/bottle	2	Bottle	15,000.00	30,000.00
		190	Yeast Mannitol Agar w/ 1.5% Agar 500G / bottle	2	Bottle	12,450.00	24,900.00
		191	Ethanol 95% Technical Grade, 1 carboy	2	Drum	11,500.00	23,000.00
		192	Plate Count Agar, 500g/bottle, pellets, pH 6.8 - 7.2	2	Bottle	14,000.00	28,000.00
		193	Ethyl Alcohol 70% Spray 350mL	10	Bottle	120.00	1,200.00
		194	Aleksandrow Agar 500g.	2	Bottle	8,200.00	16,400.00
Subtotal							985,700.00
2025-01-01 81			Provision of Chemical and Filtering Supplies-Laboratory Supplies				
			NSHP				
			BARMM				
		195	Acetic Acid, 2.5 L/bottle	2	bottle	4,000.00	8,000.00
		196	Ammonium Acetate, AR, 500 g/bottle	2	bottle	2,500.00	5,000.00
		197	Ammonium fluoride, NH4F, 500 g/bot	2	bottle	13,500.00	27,000.00
		198	Ammonium Molybdate, AR, 500 g/bot	2	bottle	13,500.00	27,000.00
		199	Ammonium Sulfate, AR, 500 g/bottle	2	bottle	5,400.00	10,800.00
		200	Amyl Alcohol, AR, 500 mL/bottle	2	bottle	8,500.00	17,000.00
		201	Ascorbic Acid, AR, 100g/bottle	2	bottle	5,800.00	11,600.00
		202	Boric Acid, AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		203	Bromocresol Green, AR, 5 g/bottle	1	bottle	6,000.00	6,000.00





PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
		204	Bromthymol Blue, AR, 5 g/bottle	1	bottle	6,000.00	6,000.00
		205	Calcium Chloride, 1000 g/bottle, AR	2	bottle	5,500.00	11,000.00
		206	Calcium Chloride, AR, 1000 g/bottle	2	bottle	5,500.00	11,000.00
		207	Charcoal; AR, Phosphate Free, 2kg/bottle	2	bottle	21,500.00	43,000.00
		208	Chlorophenol Red, AR, 5 g/bottle	2	bottle	6,000.00	12,000.00
		209	Compost Certified Reference Material (AgroMAT CP-1), 100g/bottle with Certificate of Analysis	3	bottle	35,000.00	105,000.00
		210	Copper Sulfate, AR, 500 g/bottle	5	bottle	3,500.00	17,500.00
		211	Diethylenetriaminepentacetic acid (DTPA), AR, 100 g/bottle	2	bottle	7,500.00	15,000.00
		212	EC Standard: 147 and 1413 uS/cm at 25oC, NIST, 500 mL	2	bottle	18,500.00	37,000.00
		213	Ethanol, AR, 2.5 L/bottle	5	bottle	4,500.00	22,500.00
		214	Kjeltabs, Cu, AR, 1000 pcs/bottle	2	bottle	56,050.00	112,100.00
		215	Lanthanum Oxide, AR, 100 g/bottle	8	bottle	8,500.00	68,000.00
		216	Lysine, AR, 100 g/bottle	2	bottle	5,500.00	11,000.00
		217	Methanol, AR, 2.5 L/bottle	2	bottle	3,500.00	7,000.00
		218	NIST Traceable standard buffer solutions of pH 10, 1000 mL/bot with Certificate of Analysis	3	bottle	5,000.00	15,000.00
		219	NIST Traceable standard buffer solutions of pH 4, 1000 mL/bot with Certificate of Analysis	3	bottle	5,000.00	15,000.00
		220	NIST Traceable standard buffer solutions of pH 7, 1000 mL/bot with Certificate of Analysis	3	bottle	5,000.00	15,000.00
		221	NIST Traceable standard buffer solutions of pH 9, 1000 mL/bot with Certificate of Analysis	8	bottle	5,000.00	40,000.00
		222	Phosphorus Standard, NIST, 1000 mg/L, 250 mL/bottle, no formaldehyde content with Certificate of Analysis	4	bottle	10,500.00	42,000.00
		223	Potassium Antimony Tartrate, AR, 100 g/bottle	2	bottle	4,500.00	9,000.00
		224	Potassium Chloride, AR, 1000 g/bottle	4	bottle	5,000.00	20,000.00
		225	Potassium Dichromate, AR, 1kg/bottle	3	bottle	15,000.00	45,000.00
		226	Potassium Dihydrogen Phosphate (KH <sub>2</sub> PO <sub>4</sub> ), AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		227	Potassium Standard, NIST, 1000 mg/L, 250 mL/bottle	4	bottle	10,500.00	42,000.00
		228	Potassium Sulfate, AR, 500 g/bottle	4	bottle	3,500.00	14,000.00
		229	Salicylic Acid, AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		230	Silver Sulfate, Ag <sub>2</sub> SO <sub>4</sub> , AR, 500 g/bottle	2	bottle	19,500.00	39,000.00
		231	Sodium Bicarbonate, AR, 500 g/bottle	2	bottle	3,000.00	6,000.00
		232	Sodium Carbonate, AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		233	Sodium hexametaphosphate, AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		234	Sodium hexanitrocobaltate (III) (Na <sub>3</sub> CO(NO <sub>2</sub> ) <sub>6</sub> ), AR, 500 g/bottle	2	bottle	17,000.00	34,000.00
		235	Sodium Hydroxide Pellets, AR, 1000 g/bottle	4	bottle	5,000.00	20,000.00
		236	Sodium Nitrite, AR, 500 g/bottle	2	bottle	7,500.00	15,000.00
		237	Sodium Thiosulfate Pentahydrate, AR, 500g/bottle	2	bottle	3,500.00	7,000.00
		238	Soil Certified Reference Material (AgroMAT AG-1), 100g/bottle	5	bottle	35,000.00	175,000.00



PR Number	End User	em no.	Item	Qty	Unit	MOOE	Total Cost
			with Certificate of Analysis				
		239	Sucrose, AR, 500 g/bottle	2	bottle	3,500.00	7,000.00
		240	Triethanolamine (TEA), AR, 2.5 L/bottle	2	bottle	9,500.00	19,000.00
		241	Tris(hydroxymethyl)aminomethane (THAM), NIST, 100g/bottle with Certificate of Analysis	1	bottle	110,000.00	110,000.00
			Place of Delivery:				
			For Line item no. 195-220, 222-241 Regional Soils Laboratory-BARMM, MAFAR Extension Building, Sinsuat Ave, Brgy. Rosary Heights XIII, Cotabato City  For line item no. 221: BSWM, Quezon City				
<b>Subtotal</b>							<b>1,314,500.00</b>
<b>GRAND TOTAL</b>							<b>8,004,270.00</b>