



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

BSWM- BIDS AND AWARDS COMMITTEE
SUPPLEMENTAL BID BULLETIN
ADDENDUM NO. 2021-08-025-01

CONTRACT: INVITATION TO BID FOR SUPPLY AND DELIVERY OF LABORATORY REFERENCE MATERIALS FOR CY 2021 (IB No.: BSWM 2021-08-0025)

This **Addendum** is being issued in accordance with **Section 22.5.2 of the IRR of RA 9184**, to clarify and modify some provision of the Bidding Documents. **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 **August 26, 2021, 9:30AM** at the **BSWM Function Hall** and via **Videoconferencing-Zoom**.

I. DISCUSSION OF THE BIDDING DOCUMENT:

- **Lot 1: Supply and Delivery of Laboratory Reference Materials for Luzon Area**
ABC: One Million Nine Hundred Seventy-seven Thousand Pesos
(PhP1,977,000.00)

Lot 2: Supply and Delivery of Laboratory Reference Materials for Visayas Area
ABC: Four Hundred Twenty Thousand Pesos (PhP420,000.00)

Lot 3: Supply and Delivery of Laboratory Reference Materials for Mindanao Area
ABC: Five Hundred Twenty-five Thousand Five Pesos (PhP525,000.00)

Total ABC: Two Million Nine Hundred Twenty-two Thousand Pesos
(PhP2,922,000.00)

- For SLCC, **similar contract** shall be contract of **Supply and Delivery of Laboratory Reference Materials completed** within two **(2) consecutive years** prior to the deadline for the submission and receipt of bids.

The Bidder should comply with the following requirements:

- Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *twenty-five percent (25%) in the case of expendable supplies* of the ABC for this Project; and
 - The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
- Delivery of goods is required **within sixty (60) calendar days** upon receipt of Notice to Proceed (NTP).
 - **Awarding** - One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.
 - Submission shall be one (1) proposal per Lot.

II. SECTION VII. TECHNICAL SPECIFICATION:

ITEM No. (on Section VII of Bid Document+)	ORIGINAL	AMENDED
4	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil	<p>Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Soil parameters are the following but not limited to:</p> <ul style="list-style-type: none"> -Phosphorus (Olsen and Bray 1 Method) -Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium -Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method) -Mehlich 3
5	Certified Reference Material for Water (pH), 500 mL	<p>Certified Reference Material for Water (pH), 500 mL/bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> -pH in Water
6	Certified Reference Material for Water (BOD and COD), 15-20 mL	<p>Certified Reference Material for Water (BOD and COD), 15-20 mL/bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Biology Oxygen Demand in water - Chemical Oxygen Demand in water
7	Certified Reference Material for Water (NO ₃ -N, PO ₄ -P and NH ₄ -N), 15-20 mL	<p>Certified Reference Material for Water (NO₃-N, PO₄-P and NH₄-N), 15-20 mL /Bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Nitrate (NO₃-N) in water - Phosphorus in phosphate (PO₄-P) in water - Ammonia (NH₄-N) in water
8	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	<p>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, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - pH - Moisture Content - Total Nitrogen (Kjeldahl) - Total Bases (Total Calcium, Total Potassium, Total Magnesium, Total Sodium) - Total Phosphorus

		- Total Zinc, Manganese, Iron, Copper
9	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), 10-30g	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), 10-30g/bottle, Attach Certificate of Analysis (Must have NIST Traceability) Parameters are the following but not limited to: - Total Nitrogen - Total Bases (Total Calcium, Total Potassium, Total Magnesium, Total Sodium) - Total Phosphorus - Total Zinc, Manganese, Iron, Copper
10	Certified Reference Material for Water (Alkalinity as CaCO ₃ , Cl, NO ₃ , SO ₄ , K, Na, EC), 500 mL	Certified Reference Material for Water (Alkalinity as CaCO ₃ , Cl, NO ₃ , SO ₄ , K, Na, EC), 500 mL, Attach Certificate of Analysis (Must have NIST Traceability) Water Parameters are the following but not limited to: - Alkalinity as CaCO ₃ - Chloride in water - Nitrate in water - Sulfate in water - Sodium and Potassium in water - pH in water - Electrical Conductivity in water
11	Certified Reference Material for Water - Microbial	Certified Reference Material for Water – Microbial Attach Certificate of Analysis (Must have NIST Traceability) Microbiology Parameters are the following but not limited to: - Microbial Count
12	Certified Reference Material for Fertilizer - Microbial	Certified Reference Material for Fertilizer – Microbial Attach Certificate of Analysis (Must have NIST Traceability) Microbiology Parameters are the following but not limited to: - Microbial Count
14	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)
15	History Proficiency Test	History Proficiency Test Samples (Quality

	Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 8 samples per set, 1kg/bottle	Reference Material) for Soil Chemistry and Physical Parameters; 8 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)
16	History Proficiency Test Samples (Quality Reference Material) for Soil Physical Parameters; 150g/bottle	History Proficiency Test Samples (Quality Reference Material) for Soil Physical Parameters; 150g/bottle, with analysis report Soil Physical Parameters are the following but not limited to: - Particle Size Analysis (Sand, Silt and Clay) - Field Capacity (Pressure Extraction Method) - Permanent Wilting Point (Pressure Extraction Method)
17	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry Parameters; 150g/bottle	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry Parameters; 150g/bottle, with analysis report Soil Chemistry Parameters are the following but not limited to: - Air Dry Moisture Content - Available Phosphorus (Olsen and Bray Method) - Exchangeable Sodium, Potassium, Calcium and Magnesium (Ammonium Acetate Extraction Method) - Trace Elements Iron, Zinc, Copper and Manganese (DTPA Extraction Method)
1	Lot2. Visayas Area	Lot2. Visayas Area
4	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability) Soil Parameters are the following but not limited to: - Phosphorus (Olsen and Bray 1 Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium - Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method)
6	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with

	and Physical Parameters; 4 samples per set, 1kg/bottle	analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)
1	Lot 3.Mindanao Area	Lot 3.Mindanao Area
4	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability) Soil Parameters are the following but not limited to: -Phosphorus (Olsen and Bray 1 Method) -Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium -Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method)
6	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)

III. REMINDERS DURING THE PRE-BID CONFERENCE:

- The Bureau is now adopting the GPPB Resolution No. 16-2020 dated September 16, 2020 (Simplified PBDs shall be used for Competitive Bidding of Procurement Projects that will be posted upon its effectivity on 06 October 2020).
- The documents required for eligibility, technical proposal and financial proposal are found at **Section VIII – Checklist of Technical and Financial Documents** of the bidding document.

- Please refer to the bidding document for the **sample form of Single Largest Completed Contract (SLCC)** and form for **Statement of all ongoing Government & Private Contracts** including Contracts Awarded but not yet started for your reference.

Note: if no ongoing projects/ contracts, please state “none” or “no ongoing projects/contracts” in the form for the Statement of all on going Government and Private Contracts.

- 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.”

- 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.	
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%)

- Bidders have the option to choose from any of the four (4) forms of Bid Security provided in the bid documents including the Bid Securing Declaration.
- Please be guided that the surety bond issued by GSIS as well as a cash deposit certificate is no longer accepted.
- The bidders are reminded that their Bids and Bid Securities **should be valid and firm** for a period that shall **not exceed one hundred twenty (120) calendar days** after the date of the opening of bids
- The computation of a prospective bidder’s NFCC must be at least equal to the ABC to be bid, calculated as follows:
 - $NFCC = [(Current\ assets\ minus\ current\ liabilities) (15)]$ minus the value of all outstanding or uncompleted portions of the projects under going contracts, including awarded contract yet to be started, coinciding with the contract to be bid.
 - **Note: K= 15 is a constant factor per RA 9184 Revised IRR**
- For **sealing and marking of bid proposal**, the bidders are requested to submit two (2) separate envelopes, placed in one sealed envelope. An illustration is provided on the bidding documents

showing the required envelopes and markings of the documents for the eligibility screening, technical and financial proposal.

- The bidders shall submit **one (1) copy of original documents** (certified true copies) and **one (1) duplicate copy**.
 - **All pages/documents** must be **duly signed** by the authorized representative (original and duplicate proposal).
- **The bidders are reminded of:**
- Submission of the requirements within five (5) calendar days after the receipt of the Notice from the BAC that your bid has been identified as the Lowest Calculated Bid (LCB) and is subject for Post-Qualification of BAC TWG as stated in ITB Clause no. 20.2 of the Bid Documents.
 - Submission of **Performance Bond** and **Signed Contract Agreement within ten (10) calendar days after the receipt of Notice of Award (NOA)** as Lowest Calculated and Responsive Bid (LCRB) as stated in RA 9184 Section 37.2.1 and Section 37.2.2.
 - **Required Warranty Certificate from the Supplier** in order to assure that manufacturing defects will be corrected by the Supplier, as provided under Section 62.1 of the 2016 revised IRR of RA 9184 and as stated in the bidding documents Section VII- General Condition of Contract (GCC) Clause no. 5.
 - **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). This is for awarding purposes in compliance to Section 37.1.6 of RA9184.
 - For easy reference, **all bidders shall provide dog-ear codes in the presentation of their documents**.
- Bidders may download the updated Bidding Forms at GPPB Website (<https://www.gppb.gov.ph/downloadables.php>).
- In case of withdrawal of submitted proposal, a letter stating their intention to withdraw from the project should be submitted by the bidder before the scheduled Opening of Bids.
- A complete set of **Bidding Document** may be acquired by interested Bidders until **September 14, 2021 9:00AM** from the address and website below and **upon payment** of the applicable fee, pursuant to the latest Guidelines issued by the GPPB.
- For bank-to-bank payment (Land bank of the Philippines) for the purchase of bidding documents, please coordinate with the BAC Secretariat thru bswm.bacsec@gmail.com.
- **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. Please refer to the BSWM PhilGEPS posting for updates (<https://www.philgeps.gov.ph/>) and BSWM Procurement Service FB page <https://www.facebook.com/bswmpms>.
- Bidders who wish to **attend the Opening of sealed Bids** will be **allowed thru videoconferencing(via Zoom)** as per GPPB Resolution No. 24-2018. Please coordinate with the BAC Secretariat a day before the Opening of bids thru bswm.bacsec@gmail.com. Said activity will also be available “live” through BSWM Procurement Service FB Page (<https://www.facebook.com/bswmpms>).

- An authorization letter and photocopy of company ID for the representative of the bidders who shall submit bid proposal and will join the opening of bids on behalf of their company is required to be presented (including online attendees).

DEADLINE/SCHEDULE OF SUBMISSION AND OPENING OF BIDS:

Deadline of submission of bid proposal is on September 14, 2021, 9:00AM.

Opening of Bids is on September 14, 2021, 9:30AM at BSWM Function Room.

For precautionary measure against the COVID 19, bidder attendance will be through videoconferencing only.

For guidance and information of all concerned.

(SGD) DR. GINA P. NILO

OIC, Assistant Director / BAC Chairperson

Annex A: Revised Technical Specifications

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>		
Item	Specifications	Qty	Unit	Statement of Compliance
1	Lot1. Luzon Area			
2	Laboratory Reference Materials for RSL CAR, RSL1, RSL 2, RSL 3, RSL 4a, RSL 5, BSWM-LSD, Centers: Bulacan and Bukidnon			
3	Include Delivery Charge			
4	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability) Soil parameters are the following but not limited to: -Phosphorus (Olsen and Bray 1	26	Bottle	

	<p>Method)</p> <ul style="list-style-type: none"> -Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium -Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method) -Mehlich 3 			
5	<p>Certified Reference Material for Water (pH), 500 mL/bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> -pH in Water 	1	Bottle	
6	<p>Certified Reference Material for Water (BOD and COD), 15-20 mL/bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Biology Oxygen Demand in water - Chemical Oxygen Demand in water 	1	Bottle	
7	<p>Certified Reference Material for Water (NO₃-N, PO₄-P and NH₄-N), 15-20 mL /Bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Nitrate (NO₃-N) in water - Phosphorus in phosphate (PO₄-P) in water - Ammonia (NH₄-N) in water 	1	Bottle	
8	<p>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, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Parameters are the following but not</p>	1	Bottle	

	<p>limited to:</p> <ul style="list-style-type: none"> - pH - Moisture Content - Total Nitrogen (Kjeldahl) - Total Bases (Total Calcium, Total Potassium, Total Magnesium, Total Sodium) - Total Phosphorus - Total Zinc, Manganese, Iron, Copper 			
9	<p>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), 10-30g/bottle, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Total Nitrogen - Total Bases (Total Calcium, Total Potassium, Total Magnesium, Total Sodium) - Total Phosphorus - Total Zinc, Manganese, Iron, Copper 	1	Bottle	
10	<p>Certified Reference Material for Water (Alkalinity as CaCO₃, Cl, NO₃, SO₄, K, Na, EC), 500 mL, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Water Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Alkalinity as CaCO₃ - Chloride in water - Nitrate in water - Sulfate in water - Sodium and Potassium in water - pH in water - Electrical Conductivity in water 	1	Bottle	
11	<p>Certified Reference Material for Water – Microbial</p> <p>Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Microbiology Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Microbial Count 	1	Bottle	
12	<p>Certified Reference Material for Fertilizer – Microbial</p> <p>Attach Certificate of Analysis (Must</p>	1	Bottle	

	<p>have NIST Traceability) Microbiology Parameters are the following but not limited to: - Microbial Count</p>			
13	Quality Reference Materials included delivery charge			
14	<p>History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)</p>	7	set	
15	<p>History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 8 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese)</p>	4	set	

	<ul style="list-style-type: none"> - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay) 			
16	<p>History Proficiency Test Samples (Quality Reference Material) for Soil Physical Parameters; 150g/bottle, with analysis report</p> <p>Soil Physical Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Particle Size Analysis (Sand, Silt and Clay) - Field Capacity (Pressure Extraction Method) - Permanent Wilting Point (Pressure Extraction Method) 	8	Bottle	
17	<p>History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry Parameters; 150g/bottle, with analysis report</p> <p>Soil Chemistry Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Air Dry Moisture Content - Available Phosphorus (Olsen and Bray Method) - Exchangeable Sodium, Potassium, Calcium and Magnesium (Ammonium Acetate Extraction Method) - Trace Elements Iron, Zinc, Copper and Manganese (DTPA Extraction Method) 	20	Bottle	
18	Conformity to DISTRIBUTION OF LABORATORY CHEMICALS PER SITE listed below.			
19	Conformity to SECTION VI: SCHEDULE OF REQUIREMENTS			
1	Lot2. Visayas Area			
2	Laboratory Reference Materials for RSL 6, RSL7, RSL 8 and Bohol			
3	Include Delivery Charge			
4	Certified Reference Material for Agricultural Environment, Soil,	8	Bottle	

	<p>175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability)</p> <p>Soil Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> -Phosphorus (Olsen and Bray 1 Method) -Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium -Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method) 			
5	Quality Reference Materials included delivery charge			
6	<p>History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with analysis report</p> <p>Soil Parameters are the following but not limited to:</p> <ul style="list-style-type: none"> - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay) 	4	set	
7	Conformity to DISTRIBUTION OF LABORATORY CHEMICALS PER SITE listed below.			

8	Conformity to SECTION VI: SCHEDULE OF REQUIREMENTS			
1	Lot 3.Mindanao Area			
2	Laboratory Reference Materials for (RSL 9, RSL10, RSL 11, RSL 12, RSL 13)			
3	Include Delivery Charge			
4	Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil, Attach Certificate of Analysis (Must have NIST Traceability) Soil Parameters are the following but not limited to: -Phosphorus (Olsen and Bray 1 Method) -Exchangeable Bases Ammonium Acetate Extraction Method for Potassium, Sodium, Calcium and Magnesium -Trace Elements DTPA Extraction Method for Zinc, Manganese, Copper and Iron - Soil pH (1:1 Ratio) - Soil Electrical Conductivity (1:1 Ratio) - Organic Matter (Walkley-Black Method) - Total Nitrogen (Kjeldahl Method)	10	Bottle	
5	Quality Reference Materials included delivery charge			
6	History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle, with analysis report Soil Parameters are the following but not limited to: - Soil Electrical Conductivity (1:1 Soil-to-Water Ratio) - Soil pH (1:1 Soil-to-Water Ratio) - Available Phosphorus (Olsen and Bray Method) - Exchangeable Bases Ammonium Acetate Extraction Method for	5	set	

	Potassium, Sodium, Magnesium and Calcium - Trace Elements DTPA Extraction Method (Iron, Copper, Zinc and Manganese) - Soil Total Nitrogen (Kjeldahl) - Soil Organic Matter (Walkley-Black) - Cation Exchange Capacity - Particle Size Analysis (Sand, Silt and Clay)			
7	Conformity to DISTRIBUTION OF LABORATORY CHEMICALS PER SITE listed below.			
8	Conformity to SECTION VI: SCHEDULE OF REQUIREMENTS			

DISTRIBUTION OF LABORATORY CHEMICALS PER SITE

DISTRIBUTION OF LABORATORY REFERENCE MATERIAL TO BSWM, RESEARCH CENTER OFFSITE, REGIONAL AND PROVINCIAL SOIL LABORATORIES									
LOT 1									
	CAR	RSL I	RSL II	RSL III	RSL IV-A	RSL IV-B	RSL V	BSWM	TOTAL
Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil Ag 2	2	2	2	2	2	2	2	12	26
Certified Reference Material for Water (pH), 500 mL	0	0	0	0	0	0	0	1	1
Certified Reference Material for Water (BOD and COD), 15-20 mL	0	0	0	0	0	0	0	1	1
Certified Reference Material for Water (NO ₃ -N, PO ₄ -P and NH ₄ -N), 15-20 mL	0	0	0	0	0	0	0	1	1
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	0	0	0	0	0	0	0	1	1
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), 10-30g	0	0	0	0	0	0	0	1	1
Certified Reference Material for Water (Alkalinity as CaCO ₃ , Cl, NO ₃ , SO ₄ ,K, Na, EC), 500 mL	0	0	0	0	0	0	0	1	1
Certified Reference Material for Water - Microbial	0	0	0	0	0	0	0	1	1
Certified Reference Material for Fertilizer - Microbial	0	0	0	0	0	0	0	1	1
Quality Reference Materials included delivery charge									
History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry	1	1	1	1	1	1	1	0	7

and Physical Parameters; 4 samples per set, 1kg/bottle									
History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 8 samples per set, 1kg/bottle	0	0	0	0	0	0	0	4	4
History Proficiency Test Samples (Quality Reference Material) for Soil Physical Parameters; 150g/bottle	0	0	0	0	0	0	0	8	8
History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry Parameters; 150g/bottle	0	0	0	0	0	0	0	20	20

LOT 2						
	RSL VI	RSL VII	RSL VIII	Bohol	TOTAL	
Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil Ag 2	2	2	2	2	8	
History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle	1	1	1	1	4	

LOT 3						
	RSL IX	RSL X	RSL XI	RSL XII	RSL XIII	TOTAL
Certified Reference Material for Agricultural Environment, Soil, 175g/bottle, Sandy Soil Ag 2	2	2	2	2	2	10
History Proficiency Test Samples (Quality Reference Material) for Soil Chemistry and Physical Parameters; 4 samples per set, 1kg/bottle	1	1	1	1	1	5

Name of Authorized Representative

Signature

Date Signed