



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

REQUEST FOR QUOTATION

INSTRUCTIONS:

- 1. Bidder shall read the instructions and fill all the blanks properly.
- 2. Prospective Bidder shall submit its bid proposal using this form or official quotation with Company's letterhead.
- 3. Any specifications other than required/stated in this form shall not be considered in the evaluation of bid.
- 4. Quotation must be the lowest and responsive price, taxes included for the item/services listed hereunder, including delivery charges unless otherwise specified.
- 5. If applicable, offered brand name and model shall be specified.
- 6. Bid proposal shall be valid for one hundred twenty (120) calendar days from the date submitted.
- 7. Bid proposal shall be **submitted manually on or before the deadline to the Bids and Awards Committee Secretariat office at BSWM, SRDC Bldg., Elliptical Road corner Visayas Avenue., Quezon City or elctronically through procurement@bswm.da.gov.ph.**
- 8. Late Bids will not be accepted.
- 9. **The documentary requirements shall be shall be submitted with the quotation. Non attachment is a ground for disqualification.**

FOR SHOPPING:

- (1) PhilGEPS registration number or Certificate
- (2) Mayor's Permit

FOR DIRECT CONTRACTING:

- (1) PhilGEPS registration number or Certificate
- (2) Mayor's Permit
- (3) Latest ITR (for total ABC above PhP500K)

FOR SMALL VALUE PROCUREMENT:

- (1) PhilGEPS registration number or Certificate
- (2) Mayor's Permit
- (3) Revised Omnibus Sworn Statement (for total ABC above PhP50K)
- (4) Latest ITR (for total ABC above PhP500K)
- (5) PCAB License (for Infrastructure Project)
- (6) Curriculum Vitae and Professional Licenses (for Consulting Services)
- (7) Copy of LTFRB (Franchise) for Vehicle Rental

FOR OTHER MODES OF PROCUREMENT: PLEASE REFER TO RA 9184 AND ITS IRR AND ANNEX H

TERMS OF REFERENCE:						
Type of Procurement:		Goods/Services		Infrastructure Project		Consulting Services
Mode of Procurement: Small Value						
Deadline for Submission of Bids (Date and Time): February February 6, 2023 at 12:00PM						
PR No.		2023-01- 0194		End-User:		SWRRD
				Total ABC:		450,400.00
Source of Fund:		STO-EOPS				
Mode of Award:		Per Line		Per Lot		
				Terms of Payment:		Upon Completion of Delivery
Qty	Unit	Item (Description and Specification)	ABC	Offered Brand	Bid	
			Unit Cost		Unit Price	Total Price
		<b>Calibration:</b> Service provider muist be ISO 17025 accredited and its scope of accreditation covers item to be calibrated Calibration date are specified per group Awarding fro calibration service is per lot				
<b>Equipment for Calibration on April 24-May 5, 2023</b>						
1	pc	Analytical Balance/SC 01 Calibration points: eccentricity test using 1 gram test weight Repeatability test for 0, 1, 2, 5, 10 and 20 grams.	3,000.00			
1	pc	Top Loading Balance/SC 03 Calibration points: eccentricity test using 1 gram test weight Repeatability test for 0, 10, 50, 100 and 200 grams.	2,400.00			
1	pc	Analytical Balance Calibration points: eccentricity test using 1 gram test weight Repeatability test for 0, 1, 2, 5, 10 and 20 grams.	3,000.00			
1	pc	Top Loading Balance/SC 98 Calibration points: eccentricity test using 1 gram test weight Repeatability test for 0, 10, 50, 100 and 200 grams.	2,400.00			
1	pc	pH Meter/SC 08 Calibration points: pH 4, 7 9/10	2,800.00			
1	pc	Laboratory Oven/SC 14 Calibration points Temperature of 60°C, 75° and 110°C	3,000.00			

1	pc	Pipettor 200 µL/SC 26 Calibration points: 20uL, 100uL, 200uL	1,200.00			
1	pc	Pipettor 200 µL /SC 27 Calibration points: 20uL, 100uL, 200uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 30 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 31 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 35 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 36 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 100-1000 µL/SC 37 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Dispenser 5mL//SC 48 Calibration points: 1mL, 3mL, 5mL	1,500.00			
1	pc	Dispenser 10mL/SC 50 Calibration points: 2mL, 5mL, 10mL	1,500.00			
1	pc	Dispenser 50mL/SC 57 Calibration points: 10mL, 25mL, 50mL	1,500.00			
8	pc	Test Weights/SC 70 1g 2g 5g 10g 20 g 50 100g 200g	600.00			
1	pc	Thermohygrometer/SC 71 Calibration points: 20, 23, 25°C, 40, 50, 60% RH	1,500.00			
1	pc	Thermohygrometer /SC 72 Calibration points: 20, 23, 25°C, 40, 50, 60% RH	1,500.00			
1	pc	Thermohygrometer//SC 74 Calibration points: 20, 23, 25°C, 40, 50, 60% RH	1,500.00			
1	pc	Volumetric Flask/SC 87 10 mL	1,500.00			
1	pc	Volumetric Flask/SC 88 25mL	1,500.00			
1	pc	Volumetric Flask/SC 90 100 mL	1,500.00			
1	pc	Volumetric Flask/SC 89 50 mL	1,500.00			
1	pc	Volumetric Flask/SC 91 200 mL	1,500.00			
1	pc	Volumetric Flask /SC 92 250mL	1,500.00			
1	pc	Volumetric Flask/SC 93 500 mL	1,500.00			
1	pc	Volumetric Flask/SC 94 1000 mL	1,500.00			
1	pc	Pipettor 1000-5000 µL/SC 99 Calibration points: 1000uL, 2500uL, 5000uL	1,200.00			
1	pc	Pipettor 1000-5000 µL/SC Calibration points: 1000uL, 2500uL, 5000uL	1,200.00			

1	pc	Pipettor 2-10 mL/SC 101 Calibration points: 2mL, 5mL, 10mL	1,200.00			
1	pc	Pipettor 2-10 mL/SC 102 Calibration points: 2mL, 5mL, 10mL	1,200.00			
1	pc	Pipettor 2-10 mL/SC 103 Calibration points: 2mL, 5mL, 10mL	1,200.00			
Equipment for calibration on May 29-June 09 2023						
1	pc	Pipettor 200 µL/SC 28 Calibration points: 20uL, 100uL, 200uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 29 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 32 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 33 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000 µL/SC 34 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 100-1000 µL/SC 38 Calibration points: 100uL, 500uL, 1000uL	1,200.00			
1	pc	Pipettor 1000-5000 µL/SC 39 Calibration points: 1000uL, 2500uL, 5000uL	1,200.00			
1	pc	Pipettor 1000-5000 µL/SC 40 Calibration points: 1000uL, 2500uL, 5000uL	1,200.00			
1	pc	Pipettor 1000-5000 µL/SC 41 Calibration points: 1000uL, 2500uL, 5000uL	1,200.00			
1	pc	Pipettor 2-10 mL/SC 42 Calibration points: 2mL, 5mL, 10mL	1,200.00			
1	pc	Pipettor 2-10 mL/SC 43 Calibration points: 2mL, 5mL, 10mL	1,200.00			
1	pc	Dispenser 5 mL/SC 45 Calibration points: 1mL, 3mL, 5mL	1,500.00			
1	pc	Dispenser 5 mL/SC 46 Calibration points: 5mL need to fixed the adjustment knob to dispense 4.975-5.025 mL	1,500.00			
1	pc	Dispenser 5 mL/SC 47 Calibration points: 5mL need to fixed the adjustment knob to dispense 4.975-5.025 mL	1,500.00			
1	pc	Dispenser 10mL/SC 51 Calibration points: 2mL, 5mL, 10mL	1,500.00			
1	pc	Dispenser 10mL/SC 52 Calibration points: 10 mL need to fixed the adjustment knob to dispense 19.9-20.1 mL	1,500.00			

1	pc	Dispenser 20 mL/SC 53 Calibration points: 20 mL need to fixed the adjustment knob to dispense 19.9-20.1 mL	1,500.00			
1	pc	Dispenser 20 mL/SC 54 Calibration points: 20 mL need to fixed the adjustment knob to dispense 19.9-20.1 mL	1,500.00			
1	pc	Dispenser 25 mL/SC 55 Calibration points: 20 mL need to fixed the adjustment knob to dispense 19.9-20.1 mL	1,500.00			
1	pc	Dispenser 30 mL/SC 56 Calibration points: 14 mL, 28 mL, 30mL	1,500.00			
1	pc	Dispenser 50mL/SC 58 Calibration points: 10mL, 25mL, 50mL	1,500.00			
1	pc	Burette 25 mL (clear)/SC 61	1,500.00			
1	pc	Burette 25 mL (amber)/SC 63	1,500.00			
1	pc	Volumetric Pipette/SC 78 1 mL	1,500.00			
1	pc	Volumetric Pipette/SC 79 2 mL	1,500.00			
1	pc	Volumetric Pipette/SC80 3 mL	1,500.00			
1	pc	Volumetric Pipette/SC 81 5 mL	1,500.00			
1	pc	Volumetric Pipette/SC 83 15 mL	1,500.00			
1	pc	Volumetric Pipette/SC 82 10mL	1,500.00			
1	pc	Volumetric Pipette/SC 84 20 mL	1,500.00			
1	pc	Volumetric Pipette/SC 85 25 mL	1,500.00			
1	pc	Volumetric Pipette/SC 86 50 mL	1,500.00			
1	pc	Graduated Cylinder/SC 95 10 mL	1,500.00			
1	pc	Graduated Cylinder/SC 96 100 mL	1,500.00			
1	pc	Buret /SC 10 mL	1,500.00			
Equipment for calibration on April 24-May 05, 2023						
		SPMS				
1	pc	Toploading Balance (want) -Test for: *eccentricity test and Repeatability Test 1g, 5g, 10g, 25g, 40g, 50g, 100g, 200g, 500g, 1000g SP3, SP4	2,400.00			
1	pc	Graduated Cylinder, 1000 mL	1,500.00			
1		Preventive Maintenance and verification test Preventive Maintenance Sticker: No expiry date Awarding for Preventive Maintenance service is per line item Service provider will provide training certificate as proof of competence in performing preventive maintenance.				
Equipment for Preventive Maintenance and verification on April 24-May 05, 2023						

2	pc	<b>Aggragate stability analyzer (daiki)SP1, SP2</b> <b>Verification</b> <b>30-35 vertical oscillations per minute with an amplitude of 1 1/2 inches</b> Brush the underside of the wire cloth in a circular motion, exerting light pressure to dislodge near-size particles. Tap the sieve frame with the wooden handle of the brush to dislodge particles, but be gentle so you don't deform the frame. Wash the sieve in a warm soap and water solution to remove near-size particles lodged in the mesh. Brush the underside of the sieve carefully in the water. Consider using an ultrasonic cleaner to clean sieves with finer mesh. If using an ultrasonic cleaner, immerse the sieves in a water and detergent solution. The ultrasonic agitation will ease the removal of near-size particles. Examine finer mesh sieves against a backlight or white background for damaged openings or perimeter separations. Use magnified viewing if needed. Check build up of residual dust on the power plug which may cause power short circuit and wipe it using clot. Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker. Clean and check the equipment's wires. Repair and replacement of electrical components.	2,500.00			
1	pc	<b>Mechanical shaker (dlab) - 180 oscillates per minute</b> Check build up of residual dust on the power plug which may cause power short circuit and wipe it using clot Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker. Clean and check the equipment's wires. Lubricate neccesary parts. Repair and replacement of electrical components	2,500.00			
1	pc	<b>Centrifuge/SC04</b> <b>Verification:</b> <b>3000 rpm</b> Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth. Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge. Clean and check the equipment's wires. Lubricate neccesary parts. Repair and replacement of electrical components	2,500.00			
1	pc	<b>5Centrifuge/SC05</b> <b>Verification:</b> <b>3000 rpm</b> <b>Centrifuge/SC04</b> <b>Verification:</b> <b>3000 rpm</b> Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth. Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge. Clean and check the equipment's wires. Lubricate neccesary parts. Repair and replacement of electrical components	2,500.00			

1	pc	<b>Centrifuge/SC06</b> <b>Verification:</b> <b>3000 rpm</b> Centrifuge/SC04 Verification: 3000 rpm Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth. Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge. Clean and check the equipment's wires. Lubricate necessary parts. Repair and replacement of electrical components	2,500.00			
1	pc	<b>Mechanical Shaker/SC07</b> <b>Verification:</b> <b>120 oscillations per minute</b> Check build up of residual dust on the power plug which may cause power short circuit and wipe it using clot Check defects wiring of equipment. Check rust or any corrosion in the equipment. Check for loose screws. Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker. Clean and check the equipment's wires. Repair and replacement of electrical components	2,500.00			
1	pc	<b>Kjeldahl Distillation Unit/SC 18</b> Kjeldahl Nitrogen Distillation Unit(Buchi) verification of time (3-4 minutes) to dispense 75 mL of distillate Checking and replacement of damages tubes, seals.	8,000.00			
1	pc	<b>Fume Hood</b> Clean with clean cloth, water, and alcohol. Check for dents, signs of corrosion, scratch, stain, indentation. Check insulation for cracks and bends. Check for signs of abrasion. Check for surface deformity. Check for electrical power supply needed by the unit. Check power cable connectors and inserts. Checking electrical plugs, sockets and cables. Check screws and other mechanical parts. Check its maximum capacity and 100% span. Completeness of accessories Verification of flowrates Provide PM service report and sticker	10,000.00			
1	pc	<b>Fume Hood</b> Lab Clean with clean cloth, water, and alcohol. Check for dents, signs of corrosion, scratch, stain, indentation. Check insulation for cracks and bends. Check for signs of abrasion. Check for surface deformity. Check for electrical power supply needed by the unit. Check power cable connectors and inserts. Checking electrical plugs, sockets and cables. Check screws and other mechanical parts. Check its maximum capacity and 100% span. Completeness of accessories Verification of flowrates Provide PM service report and sticker	10,000.00			

1	pc	<b>Canopy Hood for AAS</b> Clean with clean cloth, water, and alcohol. Check for dents, signs of corrosion, scratch, stain, indentation. Check insulation for cracks and bends. Check for signs of abrasion. Check for surface deformity. Check for electrical power supply needed by the unit. Check power cable connectors and inserts. Checking electrical plugs, sockets and cables. Check screws and other mechanical parts. Check its maximum capacity and 100% span. Completeness of accessories Verification of flowrates Provide PM service report and sticker	10,000.00			
1	pc	<b>Canopy Hood for ICP-MS</b> Clean with clean cloth, water, and alcohol. Check for dents, signs of corrosion, scratch, stain, indentation. Check insulation for cracks and bends. Check for signs of abrasion. Check for surface deformity. Check for electrical power supply needed by the unit. Check power cable connectors and inserts. Checking electrical plugs, sockets and cables. Check screws and other mechanical parts. Check its maximum capacity and 100% span. Completeness of accessories Verification of flowrates Provide PM service report and sticker	10,000.00			
		<b>Preventive Maintenance</b> <b>The service provider will provide proof of competency in performing preventive maintenance:</b> <b>Training certificate specifically on the equipment brand existing in the laboratory</b> <b>Preventive Maintenance Sticker: No expiry date</b> <b>Preventive Maintenance date are specified per item.</b>				
1	pc	<b>Kjeldahl Distillation Unit/SC 19</b> <b>Kjeldahl Distillation Unit (Foss Kjeltec 8200)</b> <b>Cleaning of instrument</b> Replacement of damages tubes, seals and other parts. Dilution pump calibration Testing of unit: Dilution - 30mL, setpoint - 30mL; Alkali - 30mL, setpoint - 30mL; Receiver solution - 29mL, setpoint 30mL. Documents included: - Sticker - Technical Service Report - System Check Report - PM Documents - PM Certificate PMS date: June 01-08,2023	25,000.00			

1	pc	UV-Vis Spectrophotometer/SC 21 Perkin Elmer-Lambda 25 a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system. b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair. c) Checks the basic functionality of each module and the whole system using built-in instrument test. d) Replacement of consumable parts, inspection of other hardware components. e) Documents included: - Sticker - Technical Service Report - System Check Report - PM Documents - PM Certificate <b>PMS date: June 01-08,2023</b>	60,000.00			
1	pc	<b>AAS/SC 21</b> <b>Agilent-240FS-AA</b> a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system. b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair. c) Checks the basic functionality of each module and the whole system using built-in instrument test. d) Replacement of consumable parts, inspection of other hardware components. e) Documents included: - Sticker - Technical Service Report - System Check Report - PM Documents - PM Certificate <b>PMS date: June 01-08,2023</b>	60,000.00			
1	pc	<b>ICP-MS/SC 22</b> <b>ICPMS-2030- Shimadzu</b> a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system. b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair. c) Checks the basic functionality of each module and the whole system using built-in instrument test. d) Replacement of consumable parts, inspection of other hardware components. e) Documents included: - Sticker - Technical Service Report - System Check Report - PM Documents - PM Certificate <b>PM KIT COMPOSITION</b> Vacuum pump oil Lv0700/(PN S211-92625-12) Air Filter/(PN 211-91545) <b>PMS date: July 01-14,2023</b>	130,000.00			
		<b>PR 2023-01-0181 - LUPEZ - RD Hydroponics</b>				
1	lot	<b>Calibration of Technical and Scientific Equipment</b>	20,000.00			
		<b>Schedule of Calibration (Any date of April 2023)</b>				
		<b>Calibration Points:</b>				
		Grain Moisture Meter 0, 10, 30% Moisture				
		Drying Cabinet 50°C , 100°C				
		Moisture Meter: 10, 30, 50 grams; 20°C, 30°C, 40°C				
		Thermohygrometer: 20, 40, 60, 80% relative humidity				



		<b>Preventive Maintenance</b>				
		<b>Plant Tissue Grinder</b>				
		Clean with clean cloth, water, and alcohol. Check for dents, signs of corrosion, scratch, stain, indentation. Check insulation for cracks and bends. Check for signs of abrasion. Check for surface deformity. Check for electrical power supply needed by the unit. Check power cable connectors and inserts. Checking electrical plugs, sockets and cables. Check screws and other mechanical parts. Check its maximum capacity and 100% span. Check Completeness of accessories Recommend parts/accessories for replacement if there are any defects. Provide PM service report and sticker				
		Requirements (for calibration only)				
		1. Service provider should be ISO/IEC 17025 Accredited				
		2. Service provider must submit certificate of ISO Accreditation and scope of accreditation				
		3. Inclusive onsite subcharge and mobilization				
		<b>Place of Calibration:</b>				
		BSWM-NSWRRDC LU PEZ, San Ildefonso, Bulacan				
		Monday -Friday Only				
		8:00AM to 5:00PM				
<b>NOTE: ALL PRICES ARE INCLUSIVE OF VAT AND CHARGES</b>						
<b>NOTE:</b>	ACCOMPLISHED REQUEST FOR QUOTATION (RFQ) SHOULD BE SUBMITTED TO THE BAC SECRETARIAT'S OFFICE ON OR BEFORE THE DEADLINE FOR SUBMISSION OF BIDS. RFQ's SUBMITTED AFTER THE DEADLINE FOR SUBMISSION OF BIDS SHALL NO LONGER BE ACCEPTED.					

Reviewed by:

Procurement Coordinator  
Signature Over Printed Name

For the Bids and Awards Committee:

(Sgd) MARIA PERPETUA P. OCAMPO  
Head, BAC Secretariat

Canvasser (Signature over Printed Name)

DBM-PhilGEPS Posted

Date of canvass:

Posted by:

(Sgd) GINA M. ALBERTO  
DBM-PhilGEPS Posted

To: The BSWM Bids and Awards Committee (BAC)

Sir/Madam:

In connection with the above RFQ, I have carefully read and fully understand the minimum requirements and agree to furnish and/or deliver all awarded items in conformity with specifications and schedule of delivery.

Signature over Printer Name


Name of Company

TIN Number

Telephone Number(s)

Address

Date Accomplished



# PhilGEPS

Philippine Government Electronic Procurement System

Central Portal for  
Philippine Government  
Procurement Opportunities

Bid Notice Abstract

Request for Quotation (RFQ)

**Reference Number** 9439537  
**Procuring Entity** BUREAU OF SOILS AND WATER MANAGEMENT  
**Title** Procurement of Preventive Maintenance and Calibration of Laboratory Equipment  
**Area of Delivery** Metro Manila

<b>Solicitation Number:</b>	BSWM PR 2023-01-194 & 181	<b>Status</b>	In-Preparation
<b>Trade Agreement:</b>	Implementing Rules and Regulations		
<b>Procurement Mode:</b>	Negotiated Procurement - Small Value Procurement (Sec. 53.9)	<b>Associated Components</b>	1
<b>Classification:</b>	Goods	<b>Bid Supplements</b>	0
<b>Category:</b>	General Repair and Maintenance Services	<b>Document Request List</b>	0
<b>Approved Budget for the Contract:</b>	PHP 470,400.00	<b>Date Published</b>	31/01/2023
<b>Delivery Period:</b>	30 Day/s	<b>Last Updated / Time</b>	30/01/2023 17:22 PM
<b>Client Agency:</b>		<b>Closing Date / Time</b>	06/02/2023 12:00 PM
<b>Contact Person:</b>	Gina Marzan Alberto Administrative Officer II SRDC Bldg., Elliptical Road corner Visayas Avenue, Diliman Quezon City Metro Manila Philippines 1101 63-2-82732474 Ext.3218 procurement@bswm.da.gov.ph		

Description

"Calibration:  
Service provider must be ISO 17025 accredited and its scope of accreditation covers item to be calibrated  
Calibration date are specified per group  
Awarding fro calibration service is per lot"  
Equipment for Calibration on April 24-May 5, 2023  
1 pc "Analytical Balance/SC 01  
Calibration points:  
eccentricity test using 1 gram test weight  
Repeatability test for 0, 1, 2, 5, 10 and 20 grams.  
"  
1 pc "Top Loading Balance/SC 03  
Calibration points:  
eccentricity test using 1 gram test weight  
Repeatability test for 0, 10, 50, 100 and 200 grams.  
"  
1 pc "Analytical Balance  
Calibration points:  
eccentricity test using 1 gram test weight  
Repeatability test for 0, 1, 2, 5, 10 and 20 grams.  
"  
1 pc "Top Loading Balance/SC 98  
Calibration points:  
eccentricity test using 1 gram test weight  
Repeatability test for 0, 10, 50, 100 and 200 grams.  
"

1 pc "pH Meter/SC 08  
Calibration points:  
pH 4, 7 9/10"  
1 pc "Laboratory Oven/SC 14  
Calibration points  
Temperature of 60°C, 75° and 110°C"  
1 pc "Pipettor 200 µL/SC 26  
Calibration points:  
20uL, 100uL, 200uL"  
1 pc "Pipettor 200 µL /SC 27  
Calibration points:  
20uL, 100uL, 200uL"  
1 pc "Pipettor 1000 µL/SC 30  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 31  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 35  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 36  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 100-1000 µL/SC 37  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Dispenser 5mL//SC 48  
Calibration points:  
1mL, 3mL, 5mL"  
1 pc "Dispenser 10mL/SC 50  
Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Dispenser 50mL/SC 57  
Calibration points:  
10mL, 25mL, 50mL"  
8 pc "Test Weights/SC 70  
1g  
2g  
5g  
10g  
20 g  
50  
100g  
200g"  
1 pc "Thermohygrometer/SC 71  
Calibration points:  
20, 23, 25°C,  
40, 50, 60% RH"  
1 pc "Thermohygrometer /SC 72  
Calibration points:  
20, 23, 25°C,  
40, 50, 60% RH"  
1 pc "Thermohygrometer//SC 74  
Calibration points:  
20, 23, 25°C,  
40, 50, 60% RH"  
1 pc "Volumetric Flask/SC 87  
10 mL"  
1 pc "Volumetric Flask/SC 88  
25mL"  
1 pc "Volumetric Flask/SC 90  
100 mL"  
1 pc "Volumetric Flask/SC 89  
50 mL"  
1 pc "Volumetric Flask/SC 91  
200 mL"  
1 pc "Volumetric Flask /SC 92  
250mL"  
1 pc "Volumetric Flask/SC 93  
500 mL"  
1 pc "Volumetric Flask/SC 94  
1000 mL"  
1 pc "Pipettor 1000-5000 µL/SC 99  
Calibration points:  
1000uL, 2500uL, 5000uL"  
1 pc "Pipettor 1000-5000 µL/SC  
Calibration points:  
1000uL, 2500uL, 5000uL"  
1 pc "Pipettor 2-10 mL/SC 101



Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Pipettor 2-10 mL/SC 102  
Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Pipettor 2-10 mL/SC 103  
Calibration points:  
2mL, 5mL, 10mL"  
Equipment for calibration on May 29-June 09 2023  
1 pc "Pipettor 200 µL/SC 28  
Calibration points:  
20uL, 100uL, 200uL"  
1 pc "Pipettor 1000 µL/SC 29  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 32  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 33  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000 µL/SC 34  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 100-1000 µL/SC 38  
Calibration points:  
100uL, 500uL, 1000uL"  
1 pc "Pipettor 1000-5000 µL/SC 39  
Calibration points:  
1000uL, 2500uL, 5000uL"  
1 pc "Pipettor 1000-5000 µL/SC 40  
Calibration points:  
1000uL, 2500uL, 5000uL"  
1 pc "Pipettor 1000-5000 µL/SC 41  
Calibration points:  
1000uL, 2500uL, 5000uL"  
1 pc "Pipettor 2-10 mL/SC 42  
Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Pipettor 2-10 mL/SC 43  
Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Dispenser 5 mL/SC 45  
Calibration points:  
1mL, 3mL, 5mL"  
1 pc "Dispenser 5 mL/SC 46  
Calibration points:  
5mL  
need to fixed the adjustment knob to dispense 4.975-5.025 mL"  
1 pc "Dispenser 5 mL/SC 47  
Calibration points:  
5mL  
need to fixed the adjustment knob to dispense 4.975-5.025 mL"  
1 pc "Dispenser 10mL/SC 51  
Calibration points:  
2mL, 5mL, 10mL"  
1 pc "Dispenser 10mL/SC 52  
Calibration points:  
10 mL  
need to fixed the adjustment knob to dispense 19.9-20.1 mL"  
1 pc "Dispenser 20 mL/SC 53  
Calibration points:  
20 mL  
need to fixed the adjustment knob to dispense 19.9-20.1 mL"  
1 pc "Dispenser 20 mL/SC 54  
Calibration points:  
20 mL  
need to fixed the adjustment knob to dispense 19.9-20.1 mL"  
1 pc "Dispenser 25 mL/SC 55  
Calibration points: 20 mL  
need to fixed the adjustment knob to dispense 19.9-20.1 mL"  
1 pc "Dispenser 30 mL/SC 56  
Calibration points:  
14 mL, 28 mL, 30mL"  
1 pc "Dispenser 50mL/SC 58  
Calibration points:  
10mL, 25mL, 50mL"  
1 pc Burette 25 mL (clear)/SC 61  
1 pc Burette 25 mL (amber)/SC 63  
1 pc "Volumetric Pipette/SC 78

1 mL"  
 1 pc "Volumetric Pipette/SC 79  
 2 mL"  
 1 pc "Volumetric Pipette/SC80  
 3 mL"  
 1 pc "Volumetric Pipette/SC 81  
 5 mL"  
 1 pc "Volumetric Pipette/SC 83  
 15 mL"  
 1 pc "Volumetric Pipette/SC 82  
 10mL"  
 1 pc "Volumetric Pipette/SC 84  
 20 mL"  
 1 pc "Volumetric Pipette/SC 85  
 25 mL"  
 1 pc "Volumetric Pipette/SC 86  
 50 mL"  
 1 pc "Graduated Cylinder/SC 95  
 10 mL"  
 1 pc "Graduated Cylinder/SC 96  
 100 mL"  
 1 pc "Buret /SC  
 10 mL"

Equipment for calibration on April 24-May 05, 2023

SPMS

1 pc "Toploading Balance (want) -Test for:  
 \*eccentricity test and Repeatability Test  
 1g, 5g, 10g, 25g, 40g, 50g, 100g, 200g, 500g, 1000g SP3, SP4"  
 1 pc "Graduated Cylinder, 1000 mL  
 "

1 "Preventive Maintenance and verification test

Preventive Maintenance Sticker: No expiry date

Awarding for Preventive Maintenance service is per line item

Service provider will provide training certificate as proof of competence in performing preventive maintenance."

Equipment for Preventive Maintenance and verification on April 24-May 05, 2023

2 pc "Aggregate stability analyzer (daiki)SP1, SP2

Verification

30-35 vertical oscillations per minute with an amplitude of 1 1/2 inches

Brush the underside of the wire cloth in a circular motion, exerting light pressure to dislodge near-size particles.

Tap the sieve frame with the wooden handle of the brush to dislodge particles, but be gentle so you don't deform the frame.

Wash the sieve in a warm soap and water solution to remove near-size particles lodged in the mesh. Brush the underside of the sieve carefully in the water. Consider using an ultrasonic cleaner to clean sieves with finer mesh. If using an ultrasonic cleaner, immerse the sieves in a water and detergent solution. The ultrasonic agitation will ease the removal of near-size particles.

Examine finer mesh sieves against a backlight or white background for damaged openings or perimeter separations.

Use magnified viewing if needed.

Check build up of residual dust on the power plug which may cause power short circuit and wipe it using cloth.

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker.

Clean and check the equipment's wires.

Repair and replacement of electrical components.

"

1 pc "Mechanical shaker (dlab) - 180 oscillates per minute

Check build up of residual dust on the power plug which may cause power short circuit and wipe it using cloth

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker.

Clean and check the equipment's wires.

Lubricate necessary parts.

Repair and replacement of electrical components"

1 pc "Centrifuge/SC04

Verification:

3000 rpm

Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth.

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge.

Clean and check the equipment's wires.

Lubricate necessary parts.

Repair and replacement of electrical components

"



1 pc "5Centrifuge/SC05

Verification:

3000 rpm

Centrifuge/SC04

Verification:

3000 rpm

Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth.

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge.

Clean and check the equipment's wires.

Lubricate necessary parts.

Repair and replacement of electrical components"

1 pc "Centrifuge/SC06

Verification:

3000 rpm

Centrifuge/SC04

Verification:

3000 rpm

Check for build up of residual dust on the power plug which may cause a short circuit and wipe it using cloth.

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Do not use harsh chemicals to clean the balance, as the finish may be damaged. Vacuum cleaner can be used to remove the dirt inside the centrifuge.

Clean and check the equipment's wires.

Lubricate necessary parts.

Repair and replacement of electrical components"

1 pc "Mechanical Shaker/SC07

Verification:

120 oscillations per minute

Check build up of residual dust on the power plug which may cause power short circuit and wipe it using cloth

Check defects wiring of equipment.

Check rust or any corrosion in the equipment.

Check for loose screws.

Clean using a soft cloth dampened with water and a mild detergent. Vacuum cleaner can be used to remove the dirt inside the mechanical shaker.

Clean and check the equipment's wires.

Repair and replacement of electrical components"

1 pc "Kjeldahl Distillation Unit/SC 18

Kjeldahl Nitrogen Distillation Unit(Buchi) verification of time (3-4 minutes) to dispense 75 mL of distillate

Checking and replacement of damages tubes, seals. "

1 pc "Fume Hood

Clean with clean cloth, water, and alcohol.

Check for dents, signs of corrosion, scratch, stain, indentation.

Check insulation for cracks and bends.

Check for signs of abrasion.

Check for surface deformity.

Check for electrical power supply needed by the unit.

Check power cable connectors and inserts.

Checking electrical plugs, sockets and cables.

Check screws and other mechanical parts.

Check its maximum capacity and 100% span.

Completeness of accessories

Verification of flowrates

Provide PM service report and sticker"

1 pc "Fume Hood

Lab

Clean with clean cloth, water, and alcohol.

Check for dents, signs of corrosion, scratch, stain, indentation.

Check insulation for cracks and bends.

Check for signs of abrasion.

Check for surface deformity.

Check for electrical power supply needed by the unit.

Check power cable connectors and inserts.

Checking electrical plugs, sockets and cables.

Check screws and other mechanical parts.

Check its maximum capacity and 100% span.

Completeness of accessories

Verification of flowrates

Provide PM service report and sticker"

1 pc "Canopy Hood for AAS

Clean with clean cloth, water, and alcohol.

Check for dents, signs of corrosion, scratch, stain, indentation.

Check insulation for cracks and bends.

Check for signs of abrasion.

Check for surface deformity.

Check for electrical power supply needed by the unit.



Check power cable connectors and inserts.  
 Checking electrical plugs, sockets and cables.  
 Check screws and other mechanical parts.  
 Check its maximum capacity and 100% span.  
 Completeness of accessories  
 Verification of flowrates  
 Provide PM service report and sticker"  
 1 pc "Canopy Hood for ICP-MS  
 Clean with clean cloth, water, and alcohol.  
 Check for dents, signs of corrosion, scratch, stain, indentation.  
 Check insulation for cracks and bends.  
 Check for signs of abrasion.  
 Check for surface deformity.  
 Check for electrical power supply needed by the unit.  
 Check power cable connectors and inserts.  
 Checking electrical plugs, sockets and cables.  
 Check screws and other mechanical parts.  
 Check its maximum capacity and 100% span.  
 Completeness of accessories  
 Verification of flowrates  
 Provide PM service report and sticker"

#### "Preventive Maintenance

The service provider will provide proof of competency in performing preventive maintenance:

Training certificate specifically on the equipment brand existing in the laboratory

Preventive Maintenance Sticker: No expiry date

Preventive Maintenance date are specified per item."

1 pc "Kjeldahl Distillation Unit/SC 19

Kjeldahl Distillation Unit (Foss Kjeltac 8200)

Cleaning of instrument

Replacement of damages tubes, seals and other parts.

Dilution pump calibration

Testing of unit: Dilution - 30mL, setpoint -

30mL; Alkali - 30mL, setpoint - 30mL; Receiver solution -

29mL, setpoint 30mL.

Documents included:

- Sticker
- Technical Service Report
- System Check Report
- PM Documents
- PM Certificate

PMS date: June 01-08,2023"

1 pc "UV-Vis Spectrophotometer/SC 21

Perkin Elmer-Lambda 25

a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system.

b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair.

c) Checks the basic functionality of each module and the whole system using built-in instrument test.

d) Replacement of consumable parts, inspection of other hardware components.

e) Documents included:

- Sticker
- Technical Service Report
- System Check Report
- PM Documents
- PM Certificate

PMS date: June 01-08,2023"

1 pc "AAS/SC 21

Agilent-240FS-AA

a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system.

b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair.

c) Checks the basic functionality of each module and the whole system using built-in instrument test.

d) Replacement of consumable parts, inspection of other hardware components.

e) Documents included:

- Sticker
- Technical Service Report
- System Check Report
- PM Documents
- PM Certificate

PMS date: June 01-08,2023"

1 pc "ICP-MS/SC 22

ICPMS-2030- Shimadzu

a) Comprises periodic cleaning, checking and replacement of the parts required to maintain stable performance of the whole system.

b) Intended to maintain long-term instrument performance, minimized or eliminate downtime by avoiding major repair.

c) Checks the basic functionality of each module and the whole system using built-in instrument test.

d) Replacement of consumable parts, inspection of other hardware components.

## e) Documents included:

- Sticker
- Technical Service Report
- System Check Report
- PM Documents
- PM Certificate

## PM KIT COMPOSITION

Vacuum pump oil LvO700/(PN S211-92625-12)

Air Filter/(PN 211-91545)

PMS date: July 01-14,2023"

PR 2023-01-0181 - LUPEZ - RD Hydroponics

1 lot Calibration of Technical and Scientific Equipment

Schedule of Calibration (Any date of April 2023)

## Calibration Points:

Grain Moisture Meter 0, 10, 30% Moisture

Drying Cabinet 50°C , 100°C

Moisture Meter: 10, 30, 50 grams; 20°C, 30°C, 40°C

Thermohygrometer: 20, 40, 60, 80% relative humidity

## Preventive Maintenance

## Plant Tissue Grinder

"Clean with clean cloth, water, and alcohol.

Check for dents, signs of corrosion, scratch, stain, indentation.

Check insulation for cracks and bends.

Check for signs of abrasion.

Check for surface deformity.

Check for electrical power supply needed by the unit.

Check power cable connectors and inserts.

Checking electrical plugs, sockets and cables.

Check screws and other mechanical parts.

Check its maximum capacity and 100% span.

Check Completeness of accessories

Recommend parts/accessories for replacement if there are any defects.

Provide PM service report and sticker"

## Requirements (for calibration only)

1. Service provider should be ISO/IEC 17025 Accredited
2. Service provider must submit certificate of ISO Accreditation and scope of accreditation
3. Inclusive onsite subcharge and mobilization

## Place of Calibration:

BSWM-NSWRRDC LU PEZ, San Ildefonso, Bulacan

Monday -Friday Only

8:00AM to 5:00PM

\*\*\*\*\*

Enduser: SWRRD/LUPEZ (Bulacan)

Deadline for submission of bids: February 6, 2023 at 12:00PM

Please attach/submit the following documents with your quotation: copy of (1) PHILGEPS registration number or certificate; (2) mayor's permit, (3) Updated Ommibus Sworn Statement for ABC above Php 50K; (4) Latest Income/Business tax return for ABC above 500K; (5) PCAB License for Infrastructure Project; and (6) Curriculum Vitae and/or Professional License for Consulting Services.

The Bureau of Soils and Water Management (BSWM) invites interested parties to bid/quote for the above listed item/s.

Kindly submit your quotation for the purchase of the above requirement, (indicating our Solicitation Number) address to ENGR. EDUARDO V. ALBERTO, BAC Chairperson.

The drop box for your Bids/Quotations is located at the BSWM Lobby.

The BSWM reserves the right to reject any or all bids to declare the bidding a failure or waive any or all information or to award such bids to the supplier whose bid is considered most advantageous to the government.

**Created by** Gina Marzan Alberto

**Date Created** 30/01/2023

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