



REPUBLIC OF THE PHILIPPINES
Department of Health
NATIONAL CENTER FOR MENTAL HEALTH
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BIDS AND AWARDS COMMITTEE



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SECTION VII

Technical Specifications

IB No. 025-2023

INSTRUCTION: 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 Bidders 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 provisions of ITB Clause 3.1(a) (ii) and/or GCC Clause 2.1(a) (ii).

Technical Specifications Particulars	Requirements	Statement of Compliance
<p>1. Application of the Preventive Maintenance of Various Medical Equipment CY 2023 (LOT):</p> <p>a) General Hospital Equipment</p> <p>b) Clinical Laboratory Equipment</p> <p>c) Anatomical Laboratory Equipment</p> <p>d) Dental Section Equipment</p>	<p>Service provider must be registered at SEC to engage in, conduct and carry on the business of repair, preventive maintenance and calibration on all kinds of medical equipment for at least FIVE (5) years.</p> <p>Service provider must have an existing physical repair and calibration facility / laboratory in the Philippines. (A site visit shall be done to the lowest calculated bidder)</p> <p>Service provider must have ISO Certification related to calibration or other technical services.</p> <p>Service provider must have full-time certified biomedical technicians with NCII certificates of Biomedical Equipment Servicing or engineer with PRC license.</p> <p>Test/Calibration equipment to be used must have current, valid and NIST Traceable certificate of calibration or other internationally accepted standards.</p> <p>Service provider must own sufficient calibrated Test/Calibration equipment to be used such as but not limited to:</p> <p>a. Electrical Safety Analyzer b. Gas Flow Analyzer c. Defibrillator Analyzer d. NIBP Simulator e. Pulse Oximeter Simulator f. ECG Simulator g. Electrosurgical Analyzer h. Infusion Device Analyzer i. Test Weights</p>	

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CONFORME:
(Company Name)
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	<p>And provide proof of ownership and valid traceability certificates from NIST or other international standard.</p> <p>Service provider must have history of similar projects with at least TWO (2) government Tertiary hospitals for ISO 9001 certification in the last 3 years.</p>	
CONFORME:		
(Company Name)		
(Name and Signature of Authorized Representative)		
Scope of Works		

PREVENTIVE MAINTENANCE FOR THE EQUIPMENT OF GENERAL HOSPITAL

CALIBRATION PARAMETERS:

(1) = ELECTRICAL SAFETY
(2) = VOLUME
(3) = FLOW/PRESSURE
(4) = SPEED
(5) = TEMPERATURE

QTY	UNIT OF ISSUE	ITEM DESCRIPTION	CALIBRATION PARAMETERS					OTHERS (specify)	SERVICE FREQUENCY	UNIT COST	TOTAL COST
			1	2	3	4	5				
3	Piece	ABG Machine	✓					Po2, Pso2	Semi-Annual	23,500.00	141,000.00
2	Piece	Anesthesia Machine	✓	✓					Semi-Annual	10,805.00	43,220.00
4	Piece	Vaporizer						Gas Concentration	Semi-Annual	9,500.00	76,000.00
2	Piece	Autoclave			✓		✓		Annual	5,200.00	10,400.00
171	Piece	BP Apparatus			✓				Annual	980.00	167,580.00
21	Piece	BIPAP Machine	✓		✓				Semi-Annual	5,315.00	223,230.00
14	Piece	Cardiac Monitor	✓					SPO2, NIBP, Rate(bpm)	Semi-Annual	5,450.00	152,600.00
4	Piece	Defibrillator	✓					Joules	Semi-Annual	7,199.00	57,592.00
1	Piece	DR Table						Qualitative only	Semi-Annual	1,700.00	3,400.00
17	Piece	ECG Machine	✓			✓		Paper speed, Rate (bpm)	Semi-Annual	3,530.00	120,020.00
1	Piece	ECT Machine	✓					Rate (bpm)	Semi-Annual	8,300.00	16,600.00
3	Piece	Electro Surgical Unit	✓					Watts (Cut-Coag)	Semi-Annual	6,700.00	40,200.00
5	Piece	Fetal Doppler	✓					Rate(bpm)	Semi-Annual	2,900.00	29,000.00
12	Piece	High Flow	✓		✓				Semi-Annual	4,400.00	105,600.00

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1	Piece	Infant Weighing Scale						Weight	Annual	1,500.00	1,500.00
1	Piece	Infant Incubator	✓				✓		Semi-Annual	4,600.00	9,200.00
24	Piece	Infusion Pump	✓		✓			Flow Rate	Semi-Annual	6,116.67	293,600.00
8	Piece	Laryngoscope						Qualitative only	Annual	1,550.00	12,400.00
1	Piece	Mixing Machine	✓			✓			Annual	2,900.00	2,900.00
38	Piece	Nebulizer			✓				Annual	1,660.00	63,080.00
1	Piece	Ophthalmoscope						Qualitative only	Annual	1,425.00	1,425.00
1	Piece	OR Lights	✓						Semi-Annual	2,500.00	5,000.00
2	Piece	OR Table	✓						Semi-Annual	1,725.00	6,900.00
1	Piece	Otoscope						Qualitative only	Annual	1,300.00	1,300.00
234	Piece	Oxygen Regulator with Flow Meter			✓				Annual	1,150.00	269,100.00
6	Piece	Phrama Refrigerator					✓		Annual	3,950.00	23,700.00
123	Piece	Pulse Oximeter						SPO2, Rate(bpm)	Semi-Annual	1,025.00	252,150.00
13	Piece	Suction Machine	✓		✓				Annual	1,500.00	19,500.00
22	Piece	Thermohyrometer					✓		Annual	5,100.00	112,200.00
3	Piece	UV Light							Annual	5,050.00	15,150.00
22	Piece	Ventilator	✓	✓	✓				Semi-Annual	7,750.00	341,000.00
68	Piece	Weighing Scale						Weights	Annual	1,765.00	120,020.00
2	Piece	Video Laryngoscope	✓						Annual	4,400.00	8,800.00
SUB TOTAL										2,745,367.00	

General Scope of Works for Preventive Maintenance and Calibration Services:

- Perform preventive maintenance Including **qualitative evaluation/physical inspection** which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/ interlock, audible signals, labeling and accessories), adjustment, system performance test, software and hardware updates and replacement of PM parts/kit's if necessary. Any consumables such as reagents/solutions/ machine supplies (e.g. Isoflurane/sevoflurane /films/patch/lubricants etc.) in general, to be used during the test will be provided by the service provider.
- Perform Calibration/verification which include **quantitative evaluation according to the set calibration parameter** using calibrated test equipment/tools.
- Cleaning, lubricating and perform minor hardware or software repair if necessary.
- Application of preventive maintenance and calibration stickers which indicates PM and calibration date and due date.

Terms of Reference

- All service shall be done at the National Center for Mental Health facilities.
- General Scope of Works for Preventive Maintenance and Calibration Services should applies to all medical equipment
- Service provider should coordinate with Medical Equipment Maintenance Unit before and after the preventive maintenance and other services
- Service provider must have full-time certified biomedical technicians with NCII certificates of Biomedical Equipment Servicing or engineer with PRC license to perform corrective, preventive and calibration related to the item listed
- Service provider shall provide the following:

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- Each Test/Calibration equipment to be used must have current, valid and NIST Traceable certificate of calibration or other internationally accepted standards.
- Submit FOUR (4) copies of complete Service Report for minor repair or for the medical equipment may found defective.
- Submit FOUR (4) copies of complete Preventive Maintenance Report and Calibration Certificate for each equipment which includes qualitative and quantitative data compliant with ISO 9001 documentation.
- Current and Valid Training Certificates of technicians/engineers who performed the services

PREVENTIVE MAINTENANCE FOR THE EQUIPMENT OF CLINICAL LABORATORY					
QTY	UNIT OF ISSUE	ITEM DESCRIPTION/FREQUENCY	SERVICE FREQUENCY	UNIT COST	TOTAL COST
1	Piece	Analytical Balance, Weighing Scale, Digital Scale at least 300g x 0.01g, round platform, LCD display, Denver Instrument USA Serial number: 21360063 Scope of work: <input type="checkbox"/> Weight calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, indicators/displays, labeling) <input type="checkbox"/> PM task (cleaning of unit, lubrication of mechanical parts, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)	Annual	3,250.00	3,250.00
3	Piece	Autoclave, bench top, stainless steel, Sturdy brand, 40L capacity Serial number: 101116011-025 Autoclave, floor type, stainless steel, Wise clave, 100L capacity Serial number: 00738041080AP001 Autoclave, bench top, stainless steel, Lisa brand, 40L capacity Serial number: C7110089 Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, circuit breakers/fuses, tubes/hoses, cables, fittings/connectors, controls/switches, indicators/displays, alarms/interlocks, labeling) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, alarm function, recommended model-performance testing)	Annual	8,000.00	24,000.00
2	Piece	Biological Refrigerator, Haier Biomedical, HYC 509T Serial number: BEOHS OE1TO	Annual	6,600.00	13,200.00

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		OQJL4 70001 and BEOHS OE1TO OQJL4 7OQJL4 7001 Scope of work: <input type="checkbox"/> Temperature check and calibration <input type="checkbox"/> Cleaning and testing electrical system * Main power switch (starting delay, power delay, compressor, overload delay, condenser fan motor, defrost delay) <input type="checkbox"/> Refrigeration cycle * Cleaning of condenser * Check gas leakage * Cleaning of condenser filter * Check vibration and contact of tubing <input type="checkbox"/> Testing alarm system * Alarm key test * Filter alarm key * Buzzer key <input type="checkbox"/> Drainage - Cleaning of drain pan, check drain hose <input type="checkbox"/> Check door and door gasket			
2	Piece	Biological Safety Cabinet, Class II, Type A2, Anti UV tempered glass, Haier, HR 40-11A2 Serial number: BEO2V00N00B2B2G114G and BEO2V PEONO OQHL4 MOOO4 Scope of work: <input type="checkbox"/> Simulated power supply conditions <input type="checkbox"/> Inflow velocity test <input type="checkbox"/> Downflow velocity test <input type="checkbox"/> Light intensity test <input type="checkbox"/> Airflow smoke pattern test <input type="checkbox"/> Particle count/product protection test	Annual	25,700.00	51,400.00
1	Piece	Blood Bank Refrigerator, 30 bag capacity, Digital temperature control, Digital temperature display, Triple layer glass window, Sanyo brand Serial number: 10020023 Scope of work: <input type="checkbox"/> Temperature check and calibration <input type="checkbox"/> Cleaning and testing electrical system * Main power switch (starting delay, power delay, compressor, overload delay, condenser fan motor, defrost delay) <input type="checkbox"/> Refrigeration cycle * Cleaning of condenser * Check gas leakage * Cleaning of condenser filter * Check vibration and contact of	Annual	8,700.00	8,700.00

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		tubing <input type="checkbox"/> Testing alarm system * Alarm key test * Filter alarm key * Buzzer key <input type="checkbox"/> Drainage - Cleaning of drain pan, check drain hose <input type="checkbox"/> Check door and door gasket			
1	Piece	Blood Typing and Crossmatching, Gel Technique Centrifuge, DiaMed Serial number: 1003388 Scope of work: <input type="checkbox"/> Velocity calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, circuit breakers/fuses, cables, indicators/displays, labeling, accessories) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (alarm function, recommended model-performance testing)	Annual	3,750.00	3,750.00
4	Piece	Centrifuge, Clinical, Bench top, 24 placer, brushless, automatic rotor, Kokusan brand Serial number: 141509 and 141510 Centrifuge, Clinical, Bench top, 12 placer, brushless, automatic rotor, Vision brand Serial no.: E1234KA0001 and E1234KA0011 Scope of work: <input type="checkbox"/> Velocity calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, circuit breakers/fuses, cables, indicators/displays, labeling, accessories) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (alarm function, recommended model-performance testing)	Annual	3,125.00	12,500.00
1	Piece	Drying Oven, Digital temperature control with range from 5°C to 300°C, Digital temperature display, Binder brand Serial number: 09-09122 Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug,	Annual	5,000.00	5,000.00

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		<p>line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling)</p> <p><input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM)</p> <p><input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)</p>			
2	Piece	<p>Blood Typing and Crossmatching, Gel Technique Incubator, DiaMed Serial number: 1004376 Incubatory, dry, 50L to 60L capacity, bench top, stainless steel, L&W brand, USA, with AVR Serial number: 1007013</p> <p>Scope of work:</p> <p><input type="checkbox"/> Temperature calibration</p> <p><input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, indicators/displays, alarms/interlocks, labeling)</p> <p><input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM)</p> <p><input type="checkbox"/> Functionality test (alarm function, recommended model-performance testing)</p>	Annual	8,300.00	16,600.00
1	Piece	<p>Mechanical Rotator, Bench top, variable speed 40-240 rpm 30 minutes timer, built-in analogue tachometer, L&W Scientific brand. Serial number: 1008128</p> <p>Scope of work:</p> <p><input type="checkbox"/> Velocity calibration</p> <p><input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, circuit breakers/fuses, cables, indicators/displays, labeling, accessories)</p> <p><input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM)</p> <p><input type="checkbox"/> Functionality test (alarm function, recommended model-performance testing)</p>	Annual	3,750.00	3,750.00
8	Piece	<p>Microscope, Binocular, Olympus CX21, LED Serial nos.: 1A81033 1A81063 OB80752 OB80744 1A81055 1A80059 OA81847 1A81059</p>	Annual	4,400.00	35,200.00

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		Scope of work: <input type="checkbox"/> KN0048 (For eyepiece use/ centering of prism) <input type="checkbox"/> KN0015-A10 (For objective use/ focusing) <input type="checkbox"/> Re-grease (for mechanical parts)			
10	Piece	Pipettor, adjustable volume, 10-100µL capacity, Dragon Med brand, China 1. Serial # - ASO4042 2. Serial # - ASO9021 3. Serial # - ASO9004 4. Serial # - ASO9022 Pipettor, adjustable volume, 100-1000µL capacity, Dragon Med brand, China 1. Serial # - FP22628 2. Serial # - FP22624 3. Serial # - FP22615 Pipettor, fixed volume (50µL) 1. Serial # - 418655 2. Serial # - 427809 3. Serial # - 418655 Scope of work: <input type="checkbox"/> Volume calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, tubes/hoses, controls/switches, indicators/displays, labeling) <input type="checkbox"/> PM task (cleaning of unit, lubrication of mechanical parts, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)	Semi-Annual	3,675.00	73,500.00
2	Piece	Refrigerator Thermostat, Smart cook Reference no.: LAB-C-03 Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)	Annual	1,500.00	3,000.00
2	Piece	Room Thermometer Reference no.: LAB-C-01 LAB-C-02	Annual	1,500.00	3,000.00

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		Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)			
1	Piece	Waterbath, Digital temperature setting, Digital temperature read-out display, equipped with immersion heating element, temperature sensor and water circulators with fan Serial number: 1007031 Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, indicators/displays, alarms/interlocks, labeling) <input type="checkbox"/> PM task (cleaning of unit, recommended model-specific PM) <input type="checkbox"/> Functionality test (display verification, recommended model-performance testing)	Annual	2,700.00	2,700.00
SUB TOTAL					259,550.00
Terms of Reference: <ol style="list-style-type: none"> 1. On site calibration and preventive maintenance 2. Conduct performance verification of laboratory equipment 3. Conduct calibration with participation of Hospital in charge technicians/employee on site 4. Provide PMS stickers on all equipment indicating PMS and calibration date 5. Submit reports/findings and recommendations on all equipment 6. Submit Calibration certificate and service report indicating status of each unit seven (7) days after service 7. Submits certificate of all calibration tools used for the calibration of equipment 8. Any damage on equipment incurred during the conduct of the PMS/Calibration shall be paid by the service provider 9. Trained service engineers - training certificates from accredited training centers shall be submitted 					

PREVENTIVE MAINTENANCE FOR THE EQUIPMENT OF ANATOMICAL LABORATORY					
QTY	UNIT OF ISSUE	ITEM DESCRIPTION/FREQUENCY	SERVICE FREQUENCY	UNIT COST	TOTAL COST
1	unit	Tissue Embedding Station Scope of work: <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain 	Annual	15,450.00	15,450.00

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		<p>reliefs, cables, controls/switches, fan, indicators/displays, labeling)</p> <ul style="list-style-type: none"> • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 			
1	unit	<p>Gross Pathology Station</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, circuit breakers/fuses, tubes/hoses, cables, fittings/connectors, controls/switches, indicators/displays, alarms/interlocks, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, alarm function, recommended model-performance testing) 	Annual	9,500.00	9,500.00
1	unit	<p>Water Floatation Bath</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	4,635.00	4,635.00
2	unit	<p>Digital Weighing Scale</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Weight calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, indicators/displays, labeling) • PM task (cleaning of unit, lubrication of mechanical parts, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	4,900.00	9,800.00
1	unit	<p>Paraffin Oven</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	4,350.00	4,350.00
2	unit	<p>Electric Bone Saw</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain 	Annual	10,750.00	21,500.00

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		<ul style="list-style-type: none"> reliefs, circuit breakers/fuses, cables, indicators/displays, labeling, accessories) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (alarm function, recommended model-performance testing) 			
1	unit	<p>Body Cadaver Morgue</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	21,300.00	21,300.00
1	unit	<p>Digital Thermometer Ref/Freezer</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	3,450.00	3,450.00
1	unit	<p>Analogue Thermometer Ref/Freezer</p> <p>Scope of work:</p> <ul style="list-style-type: none"> • Temperature calibration • Qualitative task/ Physical inspection (chassis/housing, AC plug, line cord, strain reliefs, cables, controls/switches, fan, indicators/displays, labeling) • PM task (cleaning of unit, recommended model-specific PM) • Functionality test (display verification, recommended model-performance testing) 	Annual	4,950.00	4,950.00
SUB TOTAL					94,935.00

General Scope of Works for Preventive Maintenance and Calibration Services:

- Perform preventive maintenance Including qualitative evaluation physical/mechanical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/ interlock, audible signals, labeling and accessories), adjustment, system performance test, software and hardware updates and replacement of PM parts/kit's if necessary. Any consumables such as reagents/solutions/ machine supplies (e.g. Isoflurane/sevoflurane /films/patch/lubricants etc.) in general, to be used during the test will be provided by the service provider.
- Perform Calibration/verification which include quantitative evaluation using calibrated test equipment/tools
- Cleaning, lubricating and perform minor hardware or software repair if necessary
- Application of preventive maintenance and calibration stickers which indicates PM and calibration date and due date

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CONFORME:
(Company Name)
(Name and Signature of Authorized Representative)

Terms of Reference:

1. All services shall be done at the National Center for Mental Health facilities.
2. Service provider must conduct Preventive Maintenance and calibration on all listed medical equipment.
3. FREQUENCY: ANNUAL
4. Service provider should coordinate with the End-User and Medical Equipment Maintenance unit before and after the preventive maintenance and other services.
5. Service provider must have full-time certified Biomedical Technicians with NCH certificates of Biomedical Equipment Servicing or Engineer with PRC license to perform corrective preventive, calibration related to the item listed.
6. Service provider must provide the following:
 - A. Test /Calibration equipment to be used must have current, valid and NIST traceable certificate of calibration or other internationally accepted standards.
 - B. Submit FOUR (4) copies of complete Service Report for minor repair or for the medical equipment found defective.
 - C. Submit four (4) copies of complete Preventive Maintenance Report and Calibration Certificate Calibration certificate for each equipment which includes qualitative and quantitative data compliant with ISO 9001 documentation.
 - D. Current and valid training certificates of technicians/engineers who performed the services.

PREVENTIVE MAINTENANCE FOR THE EQUIPMENT OF DENTAL SECTION					
QTY	UNIT OF ISSUE	ITEM DESCRIPTION/FREQUENCY	SERVICE FREQUENCY	UNIT COST	TOTAL COST
10	Piece	<p>Dental Chair</p> <p>Scope of Work</p> <ul style="list-style-type: none"> <input type="checkbox"/> Speed calibration <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Qualitative task/ Physical/Mechanical inspection <p>Check and verification:</p> <ul style="list-style-type: none"> - high speed handpiece and attachment - low speed air motor handpiece and attachment - three-way syringe and attachment - x-ray film viewer - solenoid valve of cup-filler - working arm tray air lock - solenoid valve of spittoon flush - led operating light sensor - foot control for handpieces - foot control for chair operation - saliva ejector operation - air suction operation - three-way syringe and attachment assistant side - clean water tank system - air and water regulator - dentist chair-gas lift height adjustment - air compressor-water drainage - actuator (up, down, back , and forth adjustment 	Semi-Annual	8,850.00	177,000.00

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		- headrest of dental chair - armrests of dental chair			
2	Piece	Autoclave Machine Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Pressure calibration <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Qualitative task/ Physical inspection Check and verification: - heating element wattage - pressure gauge - thermostat control - timer function	Semi-Annual	4,650.00	18,600.00
2	Piece	Dry Heat Sterilizer Scope of work: <input type="checkbox"/> Temperature calibration <input type="checkbox"/> Pressure calibration <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories Check and verification: - heating element wattage - pressure gauge - thermostat control - timer function	Semi-Annual	4,300.00	17,200.00
10	Piece	UV Sterilizer Scope of work: <input type="checkbox"/> Energy Calibration UV Intensity <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling	Semi-Annual	2,950.00	59,000.00

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		and accessories)			
8	Piece	Ultrasonic Scaler Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories)	Semi-Annual	3,450.00	55,200.00
7	Piece	Light Cure Machine Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories)	Semi-Annual	2,600.00	36,400.00
5	Piece	Extra Oral Suction Machine with Replacement of Suction Filter Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Pressure calibration <input type="checkbox"/> Replacement of filter <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling	Semi-Annual	3,600.00	36,000.00

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		and accessories)			
3	Piece	Intra Oral Suction Machine with Replacement of Suction Filter Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Pressure calibration <input type="checkbox"/> Replacement of filter <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories)	Semi-Annual	4,150.00	24,900.00
1	Piece	Dental X-ray Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Exposure radiation calibration Check and verification: leds, signaling function, external and internal button microprocessor check up all mechanism parts <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories)	Semi-Annual	27,350.00	54,700.00
2	Piece	Cautery Machine Scope of work: <input type="checkbox"/> Electrical safety testing <input type="checkbox"/> Watts calibration <input type="checkbox"/> Qualitative task/ Physical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses,	Semi-Annual	4,450.00	17,800.00

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		cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/interlock, audible signals, labeling and accessories)			
SUB TOTAL					496,800.00

General Scope of Works:

- Perform preventive maintenance Including qualitative evaluation physical/mechanical inspection which applicable to the following (chassis/housing, mount/fasteners, caster/brakes, AC plug, line cord, strain reliefs, circuit breaker/fuse, tubes/hoses, cables, fittings/connector, filters, controls/switches, heater, motor/pump/fan/compressor, battery/charger, indicators/displays, calibration/self test, time/date settings, alarms/ interlock, audible signals, labeling and accessories), adjustment, system performance test, software and hardware updates and replacement of PM parts/kit's if necessary. Any consumables such as reagents/solutions/ machine supplies (e.g. Isoflurane/sevoflurane /films/patch/lubricants etc.) in general, to be used during the test will be provided by the service provider.
- Perform Calibration/verification which include quantitative evaluation using calibrated test equipment/tools.
- Cleaning, lubricating and perform minor hardware or software repair if necessary.
- Application of preventive maintenance and calibration stickers which indicates PM and calibration date and due date.

Terms of Reference:

1. All services shall be done at the National Center for Mental Health facilities.
2. Service provider must conduct Preventive Maintenance and calibration on all listed medical equipment.
3. FREQUENCY: SEMI-ANNUAL
4. Service provider should coordinate with the End-User and Medical Equipment Maintenance unit before and after the preventive maintenance and other services.
5. Service provider must have full-time certified Biomedical Technicians with NCII certificates of Biomedical Equipment Servicing or Engineer with PRC license to perform corrective preventive, calibration related to the item listed.
6. Service provider must provide the following:
 - A. Test /Calibration equipment to be used must have current, valid and NIST traceable certificate of calibration or other internationally accepted standards.
 - B. Submit FOUR (4) copies of complete Service Report for minor repair or for the medical equipment found defective.
 - C. Submit four (4) copies of complete Preventive Maintenance Report and Calibration Certificate for each equipment which includes qualitative and quantitative data compliant with ISO 9001 documentation.
 - D. Current and valid training certificates of technicians/engineers who performed the services.

CONFORME:
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<i>(Name and Signature of Authorized Representative)</i>