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SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS LABORATORY EQUIPMENT FOR THE UNIVERSITY (Remaining from EPA)

ABC: ₱3,748,700.00/ F101

Item No.	Unit	Specifications	Unit Price	Total Price
1	1 unit	ROTARY EVAPORATOR Rotary bottle: Condenser: 1 L # 24 (Standard size) Condenser: 1 L #35 ball mill mouth (vertical) Diameter: 70-80 mm Length: 400-430 mm Rotating speed: 0-210 RPM Charging Valve: standard size (#19) Vacuum: -0.095 to -0.10 Mpa Vacuum sealing: double sealing rings Temperature range: RT- 100°C Temperature Accuracy: ±1°C Stroke Height: 100 mm + 150 mm (sliding + manual) Rotary motor: Heating power: 1 KW – 1.5 KW Water Evaporating Speed: 20-25 mL/min Material (unit): Aluminum alloy or better Power Supply AC 220 V; 50/60 Hz Accessories: 1 L receiving flask Cold trap flask Evaporation flask (round bottom flask) Vacuum pump (oil-based) Circulating Chiller Standard Warranty on parts and services: 1 year	320,000.00	320,000.00
2	1 Units	Inverted Microscope (MACAPUNO) - Long-life LED illumination - Wide and clear view trinocular - Applicable for live cell imaging in petri plates and micro plates or cell cultures - With 4-fold magnification: 4x, 10x, 20x, 40x magnification - Interference contrast - Mechanical stage with stage extension plate - Hemacytometer holder - Universal holder - Eye piece micrometer cross lines on X and Y - Stage micrometer for biological microscope - With pointer - Dust cover - Power cord - With digital camera and compatible desktop / laptop - Suitable for fluorescent observation - 1 year warranty for service and 2 years warranty on parts	450,000.00	450,000.00
3	1 Units	Refrigerated Centrifuge (CVMBS) - Tabletop Refrigerated centrifuge - Max speed: 15,300 rpm	700,000.00	700,000.00

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		 - Max RCF: 22,250 xg - Maximum capacity: 2,000 mL - Temperature setting: -10 to 40°C in 1°C increments - Cools up to 4°C in less than 10 minutes - Has rotors for 0.2, 1.5 and 2.0 ml tubes - Size: Approx. 70(W)x 63(D)x36(H) cm - Height with opened lid: 88.3 cm* - Weight: Approx. 83 kg to 87 kg - Power consumption and Head output: Approx. 710W, 2.6MJ/h - About 9W (power consumption in power saving mode) - Power requirements: single phase 220 ± 10% V 50/60Hz, 10A - Single phase 230 ± 10 % V 50/60Hz, 10A - Rated voltage and rated current: 220 V, 50/60 Hz: 3.8A, 230 V, 50/60Hz: 3.7A - Test standard: IEC61010-2-020 - Control system: Inverter Microprocessor control, Rotation speed, RCF, Time, acceleration/deceleration, Number of memories: 99 channels at the maximum (3 for direct invocation using the panel button) - Error and user message display: Lid open, Imbalance, Over speed, Motor, Speed sensor, temperature sensor, Lid rock, inverter, Abnormal temperature, Imbalance sensor - Two-year warranty ADDITIONAL Rotors • One (1) autoclavable angle rotor for 50mL and 15mL conical tubes (micro and falcon); compatible with the refrigerated centrifuge system 		
4	2 Units	UV Cleaner Box for PCR (CVMBS) - Tabletop	200,000.00	400,000.00
		 Walls material Rear: stainless steel, Sides: steel with chemical resistant powder coating Front: glass (Euro glass) Working surface material: Stainless steel Open UV-lamp: 1 x 25W built-in bactericidal UV-C, TUV 25W 1SL/25 Working surface: chemical resistant stainless steel With bactericidal UV Lamp and UV recirculatory, digitally timed with 1 min increments UV radiation level: 18 mW / cm2 / sec Radiation type: UV (λ = 253.7 nm), ozone-free Digital time setting of direct UV exposure: 1 min 24hrs / non-stop (increment 1 min) UV-recirculator: 1x25W (efficiency >99% per 1 hour) Daylight lamp (for working area illumination): 1 x TLD-15W Thickness of side panels: 2 mm Thickness of upper front panel: 8mm Thickness of screen: 4 mm Optical transmission: 95% UV protection: >96%, UV-protection film Working area: 645 x 490 mm Opening dimensions (fully raised protective screen): 645 x 190 mm 		

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		- Safety features: Automatic open UV-lamp switch off when screen is open - Power outlets inside the unit: Inlet for cords and 1x Built-in socket, max 1000 W - Dimensions: at least 690 x 535 x 555 mm - Weight: 39kg to 43kg - Power Supply: AC100-240V 50/60Hz - Standard Warranty		
5	1 Unit	UV Transilluminator with Camera Box for Gel Documentation (CVMBS)	500,000.00	500,000.00
		- Material: painted aluminum - Dimensions: at least 50 x 35 x 32.5 (H x L x W) - View area: at least 26 cm x 21 cm - Camera box: with viewing window and separate camera window compatible with DSLR camera or equivalent - Camera: High resolution color CMOS - Resolution: 2048 x 1536 - Lens: F1.4 12mm Fixed focal lens - Zoom: 1x~8x 0.2x step / 1x step adjustable - Control: 10-inch touch LCD panel or PC software control - Filter: Orange filter (50 mm) - File format: 16-bit TIFF, 8-bit TIFF, BMP, JPEG - Exposure time: 1 msec~ 10 sec - Saturation: White level - Power: AC100V-240V 2A 50/60Hz (AC adapter) - Color mode/Monochrome mode selectable - Gel tray included - Standard Warranty		
6	1 Unit	Digital pH Meter with pH Pen Tester for liquid solutions (CVMBS)	100,000.00	100,000.00
		Specifications: - Either benchtop or handheld - pH Range -2.00 to 16.00 pH - Resolution 0.01 pH - Accuracy ± 0.01 pH - Calibration Points Up to 5 (USA & NIST) / Up to 6 (DIN) - Buffer Options: USA, NIST, DIN, standard buffer solutions, NIST approved - ORP Range ± 2000 mV - Resolution 0.1 mV (< ±1000 mV), 1 mV (≥ ±1000 mV) - Accuracy ±0.3 mV (< ±1000 mV), 0.3% of reading (≥±1000 mV) - Calibration Option Yes - Temperature Range -20°C to 120°C / -22.0 to 266.0 °F - Resolution 0.1 °C/°F - Accuracy ±0.5°C / ± 0.9 °F - Standard Warranty		
7	1 Unit	Nephelometer (CVMBS)	100,000.00	100,000.00
		- Test type: Minimum Inhibitory Concentration (MIC) using 0.5 McFarland standard with LED indicator Physical characteristics - Approx. Instrument dimensions: 19 cm (W) x 13.5 cm(D) x 9.7 cm (H) 7.5 in (W) x 5.3 in (D) x 3.8 in (H)		

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		- Approx. Weight: 1 kg; 2.2 lb Electrical -Power requirements: 100-240 V AC; 400 mA - Power consumption: at least 15 watts - Standard Warranty		
8	1 Unit	Food Dehydrator Industrial (CAFENR)	70,700.00	70,700.00
		- Power: 6000w - Fan power:36W - Outside dimensions of the body (without wheels) CM:53.5*93.4*168 - Inside size: Approx. 41*37.3*72.9 - Size of oil receiving plate: 40*30 - Shell material/thickness:201 0.8 - Visible glass material: tempered - Gross weight: Approx. 115KG - Net weight: Approx. 92KG - Number of fans:8 - Temperature range: 30-90 degrees - Time range: 30min-24 hours - Motor speed: 1250rpm - Plug/air switch:32A air switch - Lecon chefVertical Dehydrator With 80 Food Trays - Voltage: 220v/50Hz - Capacity:600L - Rated power:6000W - Dry as much as possible: - Multilayer grid - Intelligent control panel - Stainless steel - Standard Warranty		
9	1 Units	Compensated Calorimeter (CAFENR)	700,000.00	700,000.00
		- Compensated Jacket calorimetry - Removable 1108P Oxygen Vessel and Bucket -2-7 tests per hour - Operator time per test is approximately 6 minutes - 0.1-0.3% precision class instrument - 0.0001 °C Temperature Resolution - 52-12000 calorie sample range dependent upon vessel selected - 0.05% Linearity across operating range - SD memory and TCP/IP network communications - USB Port for balance and printer connections - Updates via the Internet - approx. Dimensions (in) 23w x 16d x 17h - Standard Warranty		
10	1 Unit	Refrigerated Centrifuge (CAFENR)	100,000.00	100,000.00
		Centrifuge Machine 2ml/5ml/10ml/15ml/50ml x 6 - Low Speed 500-4000rpm,2146xg RCF (relative centrifugal force) - Lab Benchtop Centrifuges with Timer - Large capacity 6 of 15ml conical tubes with screw caps - Speed regulation accuracy +30 r/min - Timing range 10s – 99min59sec - Noise: <60dB (A) - Voltage: AC 220V/110V – 50Hz 5A - Dimensions: 375*320*240mm (I*W*H) - Weight: 5.5 kg		

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		- Warranty: 2 years		
11	4 Units	Desiccator (CAFENR)	52,000.00	208,000.00
		- Chamber Volume (Liters) 10.5 - Plate Size (mm) 230 - Exterior Height (Inch Short) 15.5 - Exterior Height (cm) 39.4 - Clearance Above Plate (mm) 120 - Flange Outside Diameter (OD)(cm) 32 - Material Glass - Color Clear - Glass 9" dia Clear - Standard Warranty		
12	1 Units	Spectrophotometer – Optical System (CAFENR)	100,000.00	100,000.00
		- Single Beam, Grating 1200 lines/mm - Wavelength Range - 190~1100nm - 320-1100nm - Spectral Bandwidth - 2nm - 4nm - Wavelength Accuracy - ±0.5nm - Wavelength Repeatability - ≤0.3nm - Photometric Accuracy ±0.002A (0~0.5Abs), ± 0.004A (0.5~1.0Abs), ± 0.5%T (0~100% T) - Photometric Repeatability 0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), ≤0.2%T (0~100% T) - Stray Light ≤ 0.05% T @ 360nm; 220nm ≤0.05% T @ 360nm; 220nm - Stability ±0.001A/h @ 500nm - Baseline Flatness ±0.002A - Noise ± 0.0005A - Display 480*272 65 thousand true color TFT LCD - Standard Warranty		
		,	Grand Total	₱3,748,700.00

NOTED BY:

RENE B. BETONIO End-User, CAS

EMMANUEL MAGO End-User, CVMBS

Wagnet. **WILLY ESPINELLI II**

End-User, Macapuno

ABIGAIL DARIA

End-User, CAFENR

CERTIFIED CORRECT:

RENE B/BETONIO
TWG Chair, Medical, Dental and Laboratory Equipment

Alfodus LANI S. RODIS

TWG Member, Medical, Dental and Laboratory Equipment

MA. CORAZON V. HERRERA

TWG Member, Medical, Dental and Laboratory Equipment

eyryr-ARLEEN C. PANALIGAN

TWG Member, Medical, Dental and Laboratory Equipment

ANNIE M. RAMOS

TWG Member, Medical, Dental and Laboratory Equipment

EMMANUEL R. MAGO

TWG Member, Medical, Dental and Laboratory Equipment