



Republic of the Philippines  
**ROMBLON STATE UNIVERSITY**  
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## BIDS AND AWARDS COMMITTEE

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### TECHNICAL SPECIFICATIONS

Solicitation No. RSU-2021-07-069  
ABC: PhP 1,007,330.00  
QTY: 7

#### Procurement of Scientific Equipment for the REDi Office of Romblon State University

UNIT	ITEM DESCRIPTION	STATEMENT OF COMPLIANCE
Unit	<p>Spectrophotometer Optical system: Single beam Light source: Tungsten and Deuterium lamps Wavelength range: 190 to 1100 nm Bandwidth: 2.0 nm Wavelength accuracy: +/- 0.5 nm Wavelength repeat: &lt;= 0.3 nm Photometric range: -0.3 to 3.0 A, 0 to 200 %T Accuracy: ±0.002 A @ 0.5 A, ±0.004 A @ 1.0 A, ±0.3 %T @ 100 %T Repeatability: ≤0.001 A @ 0.5 A, ≤0.002 A @ 1.0 A, ≤0.15 %T @ 100 %T Stability: ≤0.002 A/h @ 500 nm (after preheat 2 hours) Stray light: ≤0.2 @ 220 nm and 360 nm Sample capacity: 4-cell manual holder for 10 mm cuvettes standard supplied Display: Large backlit LCD, 128 x 64 dots, text and graphics Data storage: 200 groups of data and 200 standard curves (on unit) PC hard disk dependent when using optional software Power failure safety: Data restored after power failure Dimensions: 360 x 490 x 210 mm Weight: 10 kg Communications: USB and parallel port (printer) Electricals: 110/220V, 50 to 60Hz, 120W)</p>	
Unit	<p>Oven Dryer Dimensions Inner: (WDH) 400 x 400 x 500 mm Dimensions Outer: (WDH) 550 x 610 x 850 mm Capacity: 80L Temperature Range: Ambient +15°C to 250°C Set Accuracy: ±1.0°C Uniformity: ±5.0°C at 120°C Heater: 1.5kW Display: LED 4 Digits Display Controller: PID Multi-Function Controller, Alarm, Auto-tuning Timer: 99min 59sec/99hr 59 min/99days 23hr/Continuous Interior: Stainless Steel Exterior: Epoxy power coated steel</p>	



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	<p>Shelves: 2EA          Door: Tempered Glass Window with Silicone Packing (Model without Glass Door Available) Insulation: Ceramic and Glass Wool          Safety: Over Heat Protector Over Current &amp; Leakage Breaker          Electric Supply: 220V, 50/60Hz</p>	
Unit	<p>Refractometer (ICOE iPDA S2, Digital Refractometer, Salinity (Sea Water), 0-100‰ Salinity Range: 0-100‰          Salinity Resolution:          1‰ Salinity Accuracy: <math>\pm 2\%</math>          Chlorinity Range: 0-57‰ Chlorinity Resolution: 1‰ Chlorinity Accuracy: <math>\pm 2\%</math>          Specific Gravity Range: 1.000-1.070          SG Resolution: 0.001          SG Gravity Accuracy: <math>\pm 0.002</math>          Refractive Index Range: 1.3330-1.4200nD          RI Resolution: 0.0001nD RI,          Accuracy: <math>\pm 0.0003</math>nD</p>	
Unit	<p><b>Micropipettors</b> (set of 10 <math>\mu</math>l ,20<math>\mu</math>l ,200<math>\mu</math>l and 100<math>\mu</math>l )          Accuris P7700-10, NextPette Precision Pipette, 0.5 to 10 <math>\mu</math>l          Volume range: 0.5 to 10 <math>\mu</math>l at 0.01 <math>\mu</math>l increments          Inaccuracy: <math>\pm 3.80</math> to 0.50%          Imprecision: <math>\pm 4.00</math> to 0.50%          Accuris P7700-20, NextPette Precision Pipette, 2.0 to 20 <math>\mu</math>l          Volume range: 2.0 to 20 <math>\mu</math>l at 0.02 <math>\mu</math>l increments          Inaccuracy: <math>\pm 3.00</math> to 0.80%          Imprecision: <math>\pm 3.00</math> to 0.80%          Accuris P7700-200, NextPette Precision Pipette, 20 to 200 <math>\mu</math>l          Volume range: 20 to 200 <math>\mu</math>l at 0.2 <math>\mu</math>l increments          Inaccuracy: <math>\pm 1.20</math> to 0.60%          Imprecision: <math>\pm 1.50</math> to 0.80%          Accuris P7700-1000, NextPette Precision Pipette, 100 to 1000 <math>\mu</math>l          Volume range: 100 to 1000 <math>\mu</math>l at 1 <math>\mu</math>l increments          Inaccuracy: <math>\pm 1.50</math> to 0.60%          Imprecision: <math>\pm 1.00</math> to 0.60%</p>	
Unit	<p><b>Centrifuge</b>          Max speed/RCF: 6000 rpm/4,427 x g          Max capacity: 6 x 50 ml          Speed range: 200-6000 rpm in 50 rpm or 10 x g increments          Running time: up to 59 min 50 secs in 10 sec increments up to 99 hr 59 mins in 1 min increments Acc/Deceleration: 10 speeds/10 speeds,          Dimensions (WxHxD): 28 x 26 x 37 cm          Weight: 15 kg          Electrical: 230V, 50/60Hz, 100W</p>	
Unit	<p><b>ICOE iHR S1A (Handheld Refractometer, Salinity, 0-100‰, ATC function)</b>          Salinity Range 0-100‰          Salinity Division 1‰</p>	



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	Specific Gravity Range 1.000-1.070 SG Resolution 0.001 ATC Function Yes	
Unit	<b>Autoclave</b> Controller: Microprocessor Manual Set Digital PID Controller Dimensions Outer(WxDxH): 670 x 560 x 1050 mm Dimensions Inner: $\phi$ 350 x 630 mm Capacity: 60L Material Exterior: Heavy-Duty Epoxy Powder coated steel EGI steel Chamber: Stainless Steel 304 (STS 316L option), Heater: 3kW Temperature Range: 110°C~135°C Set Accuracy: $\pm 0.1^\circ\text{C}$ at 121°C Display: PV & SV Dual Digital Display Temperature, Time operation cycle indication Sterilization Timer: 0-99 min Working Pressure: 2.0 kg/cm <sup>2</sup> at 132°C Pressure Gauge: 0 ~ 4 kg/cm <sup>2</sup> Door Packing: Mechanical Swing Door Safety: Over temp. Over pressure and Over current Protection, safety release valve Standard Basket: 2 EA of stainless steel wire basket included Electric Supply: 220V, 50/60Hz )	
	<b>ONE YEAR WARRANTY;</b> <b>INSTALLATION and TRAINING INCLUDED:</b> Training and demonstration for the units should be done on the same day of delivery.	