

22. 6237F

Appendix 6.1

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0651</b>
Address : <b>10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA</b>	Date : <b>JUNE 24, 2022</b>
TIN :	Mode of Procurement : <b>PB</b>

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : <b>Metrology Building</b>	Delivery Term : <b>120 cd</b>
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount																																												
1	unit	<b>SUPPLY, DELIVERY, LABOR, INSTALLATION AND COMMISSIONING OF ONE (1) REFRIGERATED ULTRACENTRIFUGE (FLOOR TYPE) WITH DIFFERENT ROTOR</b>  <b>One (1) unit THERMO SCIENTIFIC SORVALL WX100+ ULTRACENTRIFUGE CAT 75000100</b>  <b>Technical Specifications:</b>  <table border="0"> <tr><td>Description</td><td>Sorvall WX 100+ Ultracentrifuge</td></tr> <tr><td>Type</td><td>Floor Model Centrifuge</td></tr> <tr><td>Profile (Acceleration/Braking)</td><td>10/11 (10 and coasting)</td></tr> <tr><td>Max. Speed</td><td>100,000 rpm</td></tr> <tr><td>Max. RCF</td><td>802,000 x g (T-890 rotor)</td></tr> <tr><td>Refrigerated</td><td>Yes</td></tr> <tr><td>Amperage</td><td>16/20 A</td></tr> <tr><td>Control Speed Accuracy</td><td>+2 rpm</td></tr> <tr><td>Heat Output</td><td>1 kW or below</td></tr> <tr><td>Noise Level</td><td>51 dBA (running at set speed, under in-house test condition) measured 1m in front of instrument</td></tr> <tr><td>Refrigerator System Type</td><td>Thermo-module cooling system (CFC/HCFC/HFC-free). Solid-state thermoelectric refrigeration (CFC-free)</td></tr> <tr><td>Electrical Requirements</td><td>208/240 V 50/60 Hz</td></tr> <tr><td>Certifications/Compliance</td><td>CE and cCSAus</td></tr> <tr><td>Capacity</td><td>6 x 250 mL</td></tr> <tr><td>Phase</td><td>Single</td></tr> <tr><td>Dimensions (HWD)</td><td>34.6 x 31.1 x 27.2 in. (88 x 79 x 69 cm)</td></tr> <tr><td>Net Weight</td><td>859.8 lb. (390 kg)</td></tr> <tr><td>Program Storage</td><td>1000 programs with step-runs</td></tr> <tr><td>Standards</td><td>CE and cCSAus</td></tr> <tr><td>Temperature Range</td><td>0°C to 40°C</td></tr> <tr><td>Ambient Temperature Operating Range</td><td>10°C to 30°C</td></tr> <tr><td>Green Features</td><td>Energy efficient, less waste</td></tr> </table>	Description	Sorvall WX 100+ Ultracentrifuge	Type	Floor Model Centrifuge	Profile (Acceleration/Braking)	10/11 (10 and coasting)	Max. Speed	100,000 rpm	Max. RCF	802,000 x g (T-890 rotor)	Refrigerated	Yes	Amperage	16/20 A	Control Speed Accuracy	+2 rpm	Heat Output	1 kW or below	Noise Level	51 dBA (running at set speed, under in-house test condition) measured 1m in front of instrument	Refrigerator System Type	Thermo-module cooling system (CFC/HCFC/HFC-free). Solid-state thermoelectric refrigeration (CFC-free)	Electrical Requirements	208/240 V 50/60 Hz	Certifications/Compliance	CE and cCSAus	Capacity	6 x 250 mL	Phase	Single	Dimensions (HWD)	34.6 x 31.1 x 27.2 in. (88 x 79 x 69 cm)	Net Weight	859.8 lb. (390 kg)	Program Storage	1000 programs with step-runs	Standards	CE and cCSAus	Temperature Range	0°C to 40°C	Ambient Temperature Operating Range	10°C to 30°C	Green Features	Energy efficient, less waste		11,060,055.00	11,060,055.00
Description	Sorvall WX 100+ Ultracentrifuge																																																
Type	Floor Model Centrifuge																																																
Profile (Acceleration/Braking)	10/11 (10 and coasting)																																																
Max. Speed	100,000 rpm																																																
Max. RCF	802,000 x g (T-890 rotor)																																																
Refrigerated	Yes																																																
Amperage	16/20 A																																																
Control Speed Accuracy	+2 rpm																																																
Heat Output	1 kW or below																																																
Noise Level	51 dBA (running at set speed, under in-house test condition) measured 1m in front of instrument																																																
Refrigerator System Type	Thermo-module cooling system (CFC/HCFC/HFC-free). Solid-state thermoelectric refrigeration (CFC-free)																																																
Electrical Requirements	208/240 V 50/60 Hz																																																
Certifications/Compliance	CE and cCSAus																																																
Capacity	6 x 250 mL																																																
Phase	Single																																																
Dimensions (HWD)	34.6 x 31.1 x 27.2 in. (88 x 79 x 69 cm)																																																
Net Weight	859.8 lb. (390 kg)																																																
Program Storage	1000 programs with step-runs																																																
Standards	CE and cCSAus																																																
Temperature Range	0°C to 40°C																																																
Ambient Temperature Operating Range	10°C to 30°C																																																
Green Features	Energy efficient, less waste																																																

**EMAILED**

Recipient: \_\_\_\_\_  
Date: 7-11-22 Time: \_\_\_\_\_

*hakt*

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0651</b>
Address : 10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA	Date : <b>JUNE 24, 2022</b>
TIN :	Mode of Procurement : PB

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : Metrology Building	Delivery Term : 120 cd
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		<p><b>Product Overview:</b></p> <p>Non-bolt down design greatly simplifies installation and flexibility to relocate within a facility Self-locking rotor system provides confidence that the rotor is automatically and securely locked Intuitive full color LCD touch screen keeps operation and programing simple. Located at the front of the instrument, this easy-to-navigate graphical display provides quick access to all functions and menus. Monitor instrument status from across the lab with Stat Light, our multi-color, programmable 47cm long LED bar mounted on the front of the instrument for easy visibility Automatic tube balance compensation accelerates sample preparation by allowing visual sample balancing up to 5mm The extensive rotor portfolio for the Sorvall WX+ ultracentrifuge series supports labware from microtubes to 250mL bottles—providing applications flexibility as your lab's research focus evolves.</p> <ul style="list-style-type: none"> <li>➤ Choose Fiberlite carbon fiber rotors for unequalled durability and high performance.</li> <li>➤ Fatigue-resistance provides structural integrity, eliminating the need to derate or limit the speed over the rotor lifespan</li> <li>➤ Corrosion-resistant design protects against damage due to moisture, chemicals, alkaline solutions or other salts in the laboratory</li> <li>➤ Lightweight rotors improve ergonomics for a safer work environment and minimize the risk of damage to centrifuge equipment</li> <li>➤ Repairable</li> </ul> <p><b>Comes complete with the following accessories:</b></p> <p><b>1 x cat 08322 Thermo Scientific T-647.5 Fixed Angle Rotor, Titanium,</b> Max Capacity: 6 x 100ml Max Speed: 47,500 rpm; Max RCF: 250,259 x g Radius: 99.3 mm, Angle: 22.5 ° Rotor Package includes: Rotor cover, Rotor cover tool, Rotor cover O-ring, Rotor Cover locking Nut, Rotor Stand, Vacuum Grease, Lubricant, Locking Nut, Extra Overspeed Decal(80,000 rpm) Ultracentrifuge Rotor Log Book, Instruction Manual, Washer for locking Nut</p> <p><b>1 x cat 03990 PA Ultracrimp Tube , 25/pkg, 6 tubes/rotor,</b> Max Speed: 47,500 rpm; Max RCF: 250,259 x g Dim: 39 Øx 107L mm; Tube Volume: 90.0ml Fill Volume:89mL, 25x Plug and cap included.</p> <p><b>1 x cat 03998 Closure, Rotor Cap</b> <b>1 x cat 03940 Tube Rack</b> <b>1 x cat 03920 Ultracrimp Sealing Tool</b></p> <p><b>1 x cat 54285Thermo Scientific AH-629 (17mL) Swinging Bucket Rotor, Titanium,</b> Max Capacity: 6 x 17mL Max Speed: 29,000 rpm; Max RCF: 155,846 xg Radius: 166.9 mm Angle: 90 ° Rotor Package includes: Rotor Stand, Vacuum grease, Lubricant, Extra Overspeed decal (29,000) 17mL buckets (qty:6) , Bucket o-ring , Bucket rack, Instruction manual, Ultracentrifuge rotor log book</p>			

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0651</b>
Address : <b>10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA</b>	Date : <b>JUNE 24, 2022</b>
TIN :	Mode of Procurement : <b>PB</b>

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : <b>Metrology Building</b>	Delivery Term : <b>120 cd</b>
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		1 x cat 06750 PET thin-walled tube, 50 /pk, 6 tubes/rotor, Max speed: 29,000 rpm Max RCF: 155,846 x g, Dimension: 16Ø x 102L mm; Tube Volume: 17.0 ml; Volume Fill: 17.9ml			
		1 x cat 03126 PA thin-walled tube , 50/pk, 6 tubes/rotor, Max Speed: 29,000 rpm Max RCF: 155,846 x g , Dimension: 16Ø x 102L mm Tube Volume: 17.0 mL; Volume Fill: 16.0 mL			
		1 x cat 75000414 PA- re-seal cone -top tube, 50/pk, 6 tubes /rotor, Max Speed: 29,000 rpm, Max RCF: 155,846 x g Tube Volume: 15mL; Volume Fill: 15.0 mL			
		1 x cat 75000452 Closure, 16mm noryl crown			
		1 x cat 75000451 Closure 10/pk Stainless steel plug			
		1 x cat 75000478 Tool, wrench			
		<b>1 x cat 11672 Thermo Scientific TV-1665 Vertical Rotor, Titanium ,</b> Max Capacity: 16 x 6 mL Max Speed: 65,000 rpm ; Max RCF: 414,357 x g Radius: 87.8 mm, Angle: 0 ° Rotor Package includes: Rotor Stand, Lubricant, Extra overspeed decal (65,000 rpm) Instruction manual, Ultracentrifuge rotor log book.			
		2 x cat 03945 PA ultracrimp tube, 50/pk, 16 tubes/rotor Max Speed: 65,000rpm, Max RCF: 414,357 x g Tube Volume: 6.0mL, Volume Fill: 5.7mL Dimension 13Ø x 66L mm, Closure 50/pk ultracrimp plugs and caps included			
		1 x cat 03921 Accessory, 6mL ultracrimp tube rack			
		1 x cat 03991 Accessory Rotor Cap			
		1 x cat 12770 Tool Kit for ultracrimp sealing system, includes rotor holding fixture, Torque wrench, socket cap wrench			

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0651</b>
Address : <b>10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA</b>	Date : <b>JUNE 24, 2022</b>
TIN :	Mode of Procurement : <b>PB</b>

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : <b>Metrology Building</b>	Delivery Term : <b>120 cd</b>
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		<b>1 x cat 75003031 Thermo Scientific SureSpin 632 (17ml) Swinging Bucket Rotor, Titanium</b> Capacity: 6 x 17 Ml Max Speed: 32,000 rpm Max RCF: 191,759 x g Tube Dimension: 16 Ø x 102mm Package includes: Rotor Stand, Vaccum Grease, Lubricant, Extra Overspeed decal (32,000 rpm), 17ml buckets (qty.6), bucket rack, Bucket o-ring (qty.6), Instruction manual, Ultracentrifuge rotor log book			
		<b>1 x cat 06750-AV PET- thin -walled tube</b> Tube Vol: 17mL Vol Fill: 17.0 mL 50/pk, 6 tubes/rotor, Max Speed: 32,000 rpm, Max RCF: 191,759 x g Dimension: 16Ø x 102 L mm			
		<b>1 x cat 03126 PA thin-walled</b> Tube Vol: 17 mL, Vol. Fill: 16.0 Ml 50/pk, 6 tubes/rotor Max Speed: 32,000 rpm, max RCF: 191,759 xg Dimension: 16Ø x 102 L mm			
		<b>1 x cat 79290 Thermo Scientific StepSaver 65V13 (6ML) Vertical Rotor, Titanium</b> Capacity: 8 x 6mL Max Speed: 65,000 rpm Max RCF: 393,120 x g Tube Dimension: 13Ø x 66 mm L			
		<b>1 x cat 79273 PA ultracrimp tube</b> , Tube Vol: 6.0 mL, Vol Fill: 5.7 mL 50/pk, 8 tubes /rotor Max Speed: 65,000 rpm Max RCF: 393,120 x g Tube Dimension: 13Ø x 66 mm L			
		1 x cat 79297 6mL ultracrimp cartridge set closure 1 x cat 03921 Tube Rack 1 x cat 03920 Ultracrimp sealing tool			
		1 x Socomec ITYS 2 UPS Model ITY3-TW100B , 10 KVA Capacity Compact Tower UPS Sytem 1 x Stavol 10KVA AVR			
		<b>WARRANTY:</b> Three (3) years from date of acceptance.			
		<b>INSTALLATIONS/TRAINING:</b> To be done on site by our factory trained service engineers.			

22. 023TF

PURCHASE ORDER  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0651</b>
Address : <b>10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA</b>	Date : <b>JUNE 24, 2022</b>
TIN :	Mode of Procurement : <b>PB</b>

Gentlemen:  
Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : <b>Metrology Building</b>	Delivery Term : <b>120 cd</b>
Date of Delivery :	Payment Term :

END USER: <b>BERNARD JUDE M. GUTIERREZ</b>	Less: VAT	493,752.46	
	EWT	98,750.49	592,502.95
			<b>10,467,552.05</b>

(Total Amount in Words) Ten million four hundred sixty seven thousand, five hundred fifty two pesos and 5/100 only.

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s.

Conforme:

Very truly yours,

*[Signature]*  
**PINAY ALCALA**  
 Signature over Printed Name of Supplier  
*July 11, 2022*  
 Date

*[Signature]*  
**ANNABELLE V. BRIONES, PhD**  
 Signature over Printed Name of Authorized Official  
 Director  
 Designation

Fund Cluster : \_\_\_\_\_  
 Project 1. Isolation and Purification of Philippine Common Viruses with Medical Importance and Pandemic Potential for Antigen-Antibody Studies  
 Funds Available : \_\_\_\_\_  
*[Signature]*  
**PATRICIA ASHLEY M. MENDOZA**  
 Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit

ORS/BURS No. : **TFCD-2022061419**  
 Date of the ORS/BURS: \_\_\_\_\_  
 Amount : **₱ 11, 000, 000.-**

07/04/22

Jo 6/29/22