

22. 6237

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : MOLAVE TRADING, INC.	P.O. No. : GIAE-PO-2022-06-0651
Address : 10683 ELON ELON ST. STA. FE SUBD., BATONG MALAKE, LOS BAÑOS LAGUNA	Date : JUNE 24, 2022
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
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1	unit	SUPPLY, DELIVERY, LABOR, INSTALLATION AND COMMISSIONING OF ONE (1) REFRIGERATED ULTRACENTRIFUGE (FLOOR TYPE) WITH DIFFERENT ROTOR		11,060,055.00	11,060,055.00
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One (1) unit THERMO SCIENTIFIC SORVALL WX100+ ULTRACENTRIFUGE CAT 75000100

Technical Specifications:

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: _____

hsk

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Product Overview:

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 programming 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.

- Choose Fiberlite carbon fiber rotors for unequalled durability and high performance.
- Fatigue-resistance provides structural integrity, eliminating the need to derate or limit the speed over the rotor lifespan
- Corrosion-resistant design protects against damage due to moisture, chemicals, alkaline solutions or other salts in the laboratory
- Lightweight rotors improve ergonomics for a safer work environment and minimize the risk of damage to centrifuge equipment
- Repairable

Comes complete with the following accessories:**1 x cat 08322 Thermo Scientific T-647.5 Fixed Angle Rotor, Titanium,**

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

1 x cat 03990 PA Ultracrimp Tube , 25/pkg, 6 tubes/rotor,

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.

1 x cat 03998 Closure, Rotor Cap**1 x cat 03940 Tube Rack****1 x cat 03920 Ultracrimp Sealing Tool****1 x cat 54285 Thermo Scientific AH-629 (17mL) Swinging Bucket Rotor, Titanium,**

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

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		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 xg , 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 1 x cat 11672 Thermo Scientific TV-1665 Vertical Rotor, Titanium , 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			

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		1 x cat 75003031 Thermo Scientific SureSpin 632 (17ml) Swinging Bucket Rotor, Titanium Capacity: 6 x 17 MI 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			
		1 x cat 06750-AV PET- thin -walled tube 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			
		1 x cat 03126 PA thin-walled Tube Vol: 17 mL, Vol. Fill: 16.0 MI 50/pk, 6 tubes/rotor Max Speed: 32,000 rpm, max RCF: 191,759 xg Dimension: 16Ø x 102 L mm			
		1 x cat 79290 Thermo Scientific StepSaver 65V13 (6ML) Vertical Rotor, Titanium Capacity: 8 x 6mL Max Speed: 65,000 rpm Max RCF: 393,120 x g Tube Dimension: 13Ø x 66 mm L			
		1 x cat 79273 PA ultracrimp tube , 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			
		WARRANTY: Three (3) years from date of acceptance. INSTALLATIONS/TRAINING: To be done on site by our factory trained service engineers.			

22. 023TF

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

(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

ORS/BURS No. : **JFEO-2022061419**

Funds Available : _____
[Signature]
PATRICIA ASHLEY M. MENDOZA
 Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit

Date of the ORS/BURS: _____
 Amount : **₱ 11, 000, 000.-**

07/01/22

to 6/29/22