

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE


Supplier : <b>MOLAVE TRADING, INC.</b>	P.O. No. : <b>GIAE-PO-2022-06-0647</b>
Address : <b>891 EDSA BRGY. SOUTH TRIANGLE, SILIMAN, QUEZON CITY</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	<p><b>SUPPLY, DELIVERY, LABOR, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT ULTRALOW FREEZER (-80°C</b></p> <p><b>One (1) unit THERMO SCIENTIFIC FDE50086FD ULTRA LOW FREEZER ( -86 °C )</b></p> <p><b>Technical Specifications:</b></p> <table border="0"> <tr> <td>Description</td> <td>Forma FDE Series Ultra-Low Freezers, 500-Box Capacity, Upright. 208-230V, 60Hz</td> </tr> <tr> <td>Temperature Range</td> <td>-50°C to -86°C</td> </tr> <tr> <td>Certifications/Compliance</td> <td>cULus</td> </tr> <tr> <td>Capacity</td> <td>682 L (24.1 cu ft)</td> </tr> <tr> <td>Vial Capacity</td> <td>50,000 x 2mL</td> </tr> <tr> <td>Electrical Requirements</td> <td>208 - 230 V 60 Hz</td> </tr> <tr> <td>Amperage</td> <td>5.0/15 A</td> </tr> <tr> <td>Plug Type</td> <td>NEMA 6-15</td> </tr> <tr> <td>Dimensions (D x W x H) Interior</td> <td>28.3 x 28.8 x 51.2 in. (71.9 x 73.0 x 130.1 cm)</td> </tr> <tr> <td>Dimensions (DxWxH) Exterior</td> <td>38.5 x 34.0 x 78 in. (97.7 x 86.4 x 198.1 cm)</td> </tr> <tr> <td>Weight</td> <td>290 kg (640lb)</td> </tr> <tr> <td>Shipping Weight</td> <td>333 kg (734 lb)</td> </tr> <tr> <td>Display</td> <td>HIC 5.6 in. 7-segment display with capacitive touch buttons</td> </tr> <tr> <td>Refrigerant</td> <td>R290 (1st stage), R170 + R290 mix (2nd stage)</td> </tr> <tr> <td>Capacity Shelf</td> <td>93 kg (205 lb)</td> </tr> <tr> <td>Smart View Compatibility</td> <td>Smart-View Compatible</td> </tr> </table>	Description	Forma FDE Series Ultra-Low Freezers, 500-Box Capacity, Upright. 208-230V, 60Hz	Temperature Range	-50°C to -86°C	Certifications/Compliance	cULus	Capacity	682 L (24.1 cu ft)	Vial Capacity	50,000 x 2mL	Electrical Requirements	208 - 230 V 60 Hz	Amperage	5.0/15 A	Plug Type	NEMA 6-15	Dimensions (D x W x H) Interior	28.3 x 28.8 x 51.2 in. (71.9 x 73.0 x 130.1 cm)	Dimensions (DxWxH) Exterior	38.5 x 34.0 x 78 in. (97.7 x 86.4 x 198.1 cm)	Weight	290 kg (640lb)	Shipping Weight	333 kg (734 lb)	Display	HIC 5.6 in. 7-segment display with capacitive touch buttons	Refrigerant	R290 (1st stage), R170 + R290 mix (2nd stage)	Capacity Shelf	93 kg (205 lb)	Smart View Compatibility	Smart-View Compatible		1,127,794.40	1,127,794.40
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**EMAILED**

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

*m*  
6-30-22

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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		Inner Doors	4		
		Setpoint Security	Yes		
		Defrost	Manual		
		Connectivity	External Monitoring/Cloud Compatible; 4-20mA, RS485, Dry Contacts		
		Green Features	Energy Efficient		
		Door Style	1 Outer, 4 Inner		
		Holds	2 in. Boxes (500)		
		Compressor	H-Drive Compressor		
		Insulation	Vacuum Insulation Panels (VIP) + Water-Blown Polyurethane Foam (SNAP-compliant)		
		Material	Polyurethane Foam (Insulation), Stainless Steel (Interior)		
		Monitoring Options	Alarm, Recorder		
		No. of Doors	1		
		Rack Capacity	5/shelf, 20/freezer		
		Shelves	3		

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		<p><b>Performance</b></p> <ul style="list-style-type: none"> <li>Powered by H-drive's hydrocarbon technology, these systems save up to 25% in energy usage and heat rejection over conventional refrigerant ultra-low freezers<sup>1</sup></li> <li>Designed for daily usage. recovers cabinet temperature 20% faster after opening the door.<sup>2</sup></li> <li>A quiet sound output below 53 dBA, enables the freezer to come out of the hallway and into the lab</li> <li>Meets +/-10°C validation protocols at -80°C with strong peak variation and steady-state temperature variation</li> <li>Natural hydrocarbon refrigerants reduce system operating stresses promoting outstanding reliability and worry-free sample protection</li> </ul> <p><b>User Friendly</b></p> <ul style="list-style-type: none"> <li>The H-drive Information Center (HIC) combines easy to read temperature with simple capacitive touch buttons in a 5.6" display</li> <li>Four capacities (300, 400, 500 and 600 2-inch box) to accommodate a variety of storage needs and lab footprint specifications</li> <li>All models contain four inner doors allowing for easy sample access without exposing greater freezer content to ambient conditions</li> <li>Improved customer convenience with new ergonomically designed handle, high contrast eye-level display, and comfortable easy-access shelf locations.</li> <li>Compatible with most racking systems including a full range of Thermo Scientific™ racks for boxes, microplates, Thermo Scientific™ Matrix™ and Nunc CryoBank™ tubes</li> <li>Security features including alarm settings and padlock-compatible doors</li> </ul> <p><b>Sustainability</b></p> <ul style="list-style-type: none"> <li>Manufactured in an award-winning, zero-waste to landfill facility</li> <li>Lower HVAC costs as a result of less heat emission into the environment</li> <li>Natural refrigerants and water-blown foam insulation making the Series compliant with the U.S. Environmental Protection Agency's Significant New Alternatives Policy (SNAP), the European Union's F-Gas and other sustainability standards</li> </ul> <p>Comes complete with the ff:</p> <p>&gt; 1 x cat RSK500SD4 Racking Shert Kit. Includes 5 sliding drawer racks, 125 boxes (12.7 x 12.7 x 5 cm) with 100-count cell divders)</p> <p>&gt; 1 x Locally supplied UPS, 6 KVA</p> <p>Warranty: One (1) year warranty on parts and labor.</p> <p>Includes regular quarterly prevenive maintenace and calibration during warranty period.</p> <p>Installations/Training : To be done by a factory trained service engineers.</p>			

02. Cortez

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Date of Delivery :	Payment Term :									
END USER: <b>ATHENA DANA V. COTEZ CHAVEZ</b>	<table border="1"> <tr> <td>Less: VAT</td> <td>50,347.96</td> <td></td> </tr> <tr> <td>EWT</td> <td>10,069.59</td> <td>60,417.56</td> </tr> <tr> <td></td> <td></td> <td><b>1,067,376.84</b></td> </tr> </table>	Less: VAT	50,347.96		EWT	10,069.59	60,417.56			<b>1,067,376.84</b>
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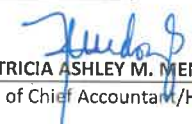
(Total Amount in Words) One million sixty seven thousand, three hundred seventy six pesos and 84/100 only.

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,

 <b>PINKY ALCALA</b> Signature over Printed Name of Supplier <u>July 11, 2022</u> Date	 <b>ANNABELLE V. BRIONES, PhD</b> Signature over Printed Name of Authorized Official Director Designation
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Fund Cluster : _____	ORS/BURS No. : <b>JFCO-202206191</b>
Project 4. "De Novo Synthesis of Non-infective Zika Pseudovirus as Reference for Diagnostics and Vaccines Development"	Date of the ORS/BURS: _____
Funds Available : _____	Amount : <b>₱ 127,700.40</b>
 <b>PATRICIA ASHLEY M. MENDOZA</b> Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit	

07/05/22

h-7/ls

u-30-22