

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

23-098 AF

Supplier : <b>CM VARGAS ENTERPRISES</b>		P.O. No. : <b>GIAE-PO-2023-09-0995 (STD)</b>			
Address : Unit 302, 205 EDSA cor. Rochester St. Greenhills, Mandaluyong City		Date : September 11, 2023			
TIN :		Mode of Procurement : Public Bidding			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery : Standards and Testing Division Building		Delivery Term : 120 calendar days			
Date of Delivery :		Payment Term :			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
	unit	<p><b>Supply, Delivery and Installation and Commissioning of one (1) unit Inhalation Exposure Equipment/System (with Complete Accessories)</b></p> <p><b>Offer:</b> <b>Brand: CH Technologies (USA)</b> <b>Model: GLP inhalation exposure system</b></p> <p><b>1. Dose/Concentration delivery</b> 1.1 can dispense/deliver a dose or concentration (released in a fine spray-aerosol type) about 1 mg/L can incrementally be increased to 10g/L, with a flow rate of 10-40 LPM</p> <p>The proposed system will be outfitted with a 4-jet BLAM, which can be achieve a large range of target mass concentrations in the 12-port exposure tower.</p> <p>1.2 can produce aerosols with Mass Median Aerodynamic Diameters (MMAD) ranging from 1 to 4 <math>\mu</math>m (value should be reflected in the LCD display/monitor)</p> <p>Particle size (MMAD): 0.5-2.5 <math>\mu</math>m (depending on the type of liquid)</p> <p><b>2. Accessory apparatus</b> 2.1 NOSE ONLY EXPOSURE SYSTEM for at least TWELVE (12) RATS with weight range up to 200-325 grams with</p>	1	19,897,888.00	19,897,888.00

**EMAILED**

Recipient: \_\_\_\_\_  
Date: 09-27-23 Time: \_\_\_\_\_

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		<p>internal pusher, connector cone with o ring for better seal</p> <p>Includes the following items:            NOE-12P-AP003-ALM = 3.1.1 Rodent Nose-Only Exposure Chamber            NOE-SWL-A000-NEG = Item 3.1.2 Inlet/Outlet Swivel Set &amp; Diluter            NOE-DIL-A000-000 = Item 3.1.2 Inlet/Outlet Swivel Set &amp; Diluter            ARD-249-AC01-000 = Item 3.1.3 Animal Restraining Tubes</p> <p>2.2 with capability to monitor for carbon dioxide (CO2), Oxygen (O2), temperature and relative humidity</p> <p>Includes the following item SME-GRW-A002-000 = Item 3.4.2 Gas Monitor</p> <p>2.3 with collision nebulizer or similar setup            Includes the following items:            ARG-BLM-A4JC-VSF= Item 3.3.1 Liquid Aerosol Generator            CON-PMP-0001-000= Item 3.3.2 Syringe Pump</p> <p>2.4 modular and expandable to the point that it can be fitted to be able to dispense solid/powder, dust and gas sample</p> <p>2.4 - COMPLY - same items as 2.1</p>			

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		<p>2.5 E-cigarette and cigarette machine provision that can allow user defined puff protocols, ISO 3308 compatible/compliance</p> <p>Includes the following items:            CSE-STP-000-A000-000= Item 3.3.2 Cigarette/E-Cigarette Smoking Machine            3DP-CSE-N003-000= Item 3.3.2 Cigarette/E-Cigarette Smoking Machine            CSE-CSM-A004-000= Item 3.3.2 Cigarette/E-Cigarette Smoking Machine            NOE-ADP-A0001-000= Item 3.3.2 Cigarette/E-Cigarette Smoking Machine</p> <p><b>3. Aerosol Monitor</b>            3.1 micro dust or equivalent aerosol monitor</p> <p>Includes the following item:            SME-MDP-A001-000= Item 3.4.1 Aerosol Mass Concentration Monitor</p> <p>3.2 forward light scattering using visible red semiconductor laser light (wavelength 635nm &lt;5mW) 0.001 mg/m<sup>3</sup> to 250 g/m<sup>3</sup>            Measuring ranges 0.001 mg/m<sup>3</sup> to 250 g/m<sup>3</sup> over six ranges</p> <p><b>4. Compressor</b>            4.1 made of high quality metal/steel, corrosion resistant, with a capacity flow rate</p>			

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		<p>of 0-40 L/min</p> <p>Includes the following item: CON-PMP-0006-000= Item 3.5.1 Compressed Air Source</p> <p><b>A. Exposure tower system (nose only)</b> A. 1 - made of quality stainless steel (316 grade) nose only exposure tower system stackable with minimum 12 animal capacity but can expanded to accommodate up to 18 animals</p> <p>- same items as 2.1</p> <p>A.2 should have jet nozzle for aerosol generator with container made of glass or polycarbonate (PC) holder that can accommodate hazardous liquid like pesticides with volume capacity of ~200 mL per nozzle</p> <p>- same items as 2.3</p> <p>made of stainless steel (316 grade), Stage Impactor - 0.75 LPM to 5 LPM, size 6 inch x 1 inch diameter</p> <p>Includes the following items: SME-IMA-A0001-000 = Item 3.4.4. 7 - Stage Mercer Impactor SME-FPA-0002-000 = Item 3.4.4. 7 - Stage Mercer Impactor</p>			

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		<p>cigarette smoking machine, cigarettes and e-cigarettes generator, can easily adapted for compatibility with any length or diameter of cigarette or e-cigarette. Machine interphase with LCD monitor display</p> <p>- same items as 2.5</p> <p><b>B. System controller box dimension</b> (L x W x H, mm): 390 x 180 x 330 Dimension: (L x W x H, mm); 390 x 180 x 330</p> <p>Dimensions (l x w x h) - 500 mm x 330 mm x 250 mm</p> <p>Weight: about 9 kg (variable) - 20 kg</p> <p>capable of monitoring temperature ranging from 2 to 98°C</p> <p>- Chamber temperature 0 - 100°C</p> <p>can monitor chamber humidity: 2-98% RH</p> <p>Chamber Humidity 2-98% +</p> <p>can monitor oxygen (O2): 0-25%</p> <p>Measurement range: O2: 0-25%</p>			

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		can monitor carbon monoxide (CO): 0-750 ppm CO: 0-750 ppm			
		can monitor carbon dioxide (CO2): 0-10000 ppm CO2: 0-10000 ppm			
		Interface/connectivity: usb port for pc and laptop Data interface: USB 2.0 Other USB ports for optional peripherals			
		Digital Peripherals RS-232 port for integrated connection and control of additional digital devices			
		<b>C. Chamber compatibility</b> upgradable to the following technology; - Biaera Technologies•M 38 Liter Whole Body for Rodents - Biaera Technologies•M 16 Liter Head-Only Chamber for NHP - Biaera Technologies•M Rotating Drum - CH Technologies 12,16 and 18 Port Series Nose-Only Inhalation Systems - In-Tox Products Nose-Only Inhalation Sytem			

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		<p><b>D. Generator compatibility</b> upgradable to the following technology;</p> <ul style="list-style-type: none"> <li>- CH Technologies, Inc. 3, 6, 12 and 24-Jet Collision Nebulizer</li> <li>- UniHeart Lo-Flo Continuous Clinical Nebulizer</li> <li>- MiniHeart Hi-Flo Continuous Clinical Nebulizer</li> <li>- Sparging Liquid Aerosol Generator (SLAG)</li> <li>- Blaustein Atomizing Module (BLAM)</li> <li>- Aeroneb Lab Nebulizer</li> <li>- CH Technologies Cigarette Smoking Carousel</li> <li>- Omron U22 Clinical Nebulizer</li> <li>- Center Flow Tangential Aerosol Generator (CENTAG)</li> <li>- Wright Dust Feeder</li>   <li>- Bioaerosol Nebulizing Generator (BANG)</li> <li>- Vilnius Dry Powder Generator</li> </ul> <p><b>E. Sampler compatibility</b> upgradable to the following technology;</p> <ul style="list-style-type: none"> <li>- All Glass Impingers (AGI-4, AGI-30, Midget, etc.)</li> <li>- SKC Biosampler</li> <li>- 49 MM Cassette</li> <li>- Cascade Impactor</li> <li>- Mercer Impactor</li> </ul> <p><b>F. Can support the following system:</b></p> <ul style="list-style-type: none"> <li>- Data Sciences International, Inc. JET - Respiratory Inductive Plethysmography</li> </ul>			


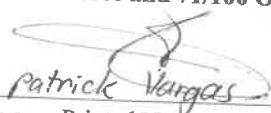


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		<ul style="list-style-type: none"> <li>- FinePointe Whole Body/Head Out Plethysmography Systems</li> <li>- TSI 3321 Aerodynamic Particle Sizer Spectrometer</li> <li>- Palas Welas PROMO 2000 Aerosol Spectrometer</li> <li>- GrayWolf Environmental and Gas Concentration Sensors</li> <li>- Casella MicroDust Pro</li> </ul> <p><b>G. Computer System</b> Lenovo IdeaPad 3 Notebook, Intel Core i7-116567 up to 4.7 GHz, 8GB RAM, 512GB PCIE SSD, Windows 11 Home</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- Machine should be plug and use system</li> <li>- Includes all accessories of the machine to run the system</li> <li>- Includes calibration standards</li> <li>- Includes tools for basic maintenance &amp; troubleshooting</li> <li>- Five (5) years warranty on parts &amp; service and 5 years preventive maintenance</li> <li>- Include calibration with certificate for parts</li> <li>- Include extensive training in equipment operation (manufacturer's training-onsite) for three (3) technical personnel equipment maintenance and trouble shooting with certificate</li> <li>- Include product demonstration upon installation/delivery of equipment</li> </ul>			



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23-998 TF

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Address : Unit 302, 205 EDSA cor. Rochester St. Greenhills, Mandaluyong City		Date : September 4, 2023			
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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
				19,897,888.00	19,897,888.00
		 END USER: ALVIN V. UMALI 9-13-2023		888,298.57	1,065,958 28
			Less: VAT	177,659.71	10,659 28
			EWT		18,831,929.71 2
<b>(Total Amount in Words) Eighteen Million Eight Hundred Thirty One Thousand Nine Hundred Twenty Nine Pesos and 71/100 Only</b>					
Conforme:			Very truly yours,		
 Signature over Printed Name of Supplier Sept. 28, 2023 Date			 <b>DR. ANNABELLE V. BRIONES</b> Signature over Printed Name of Authorized Director Designation		
Fund Cluster : DOST-ONELAB TED - Equipment Outlay			ORS/BURS No. : <u>TFW 2023092403</u>		
Funds Available : _____			Date of the ORS/BURS: _____		
 <b>PATRICIA ASHLEY M. MENDOZA</b> Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit			Amount : <u>19,897,888.00</u>		

TFW 9/20