

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

22. OCT

Supplier : ALVTECHNOLOGIES PHILIPPINES, INC. Unit 2308 Medical Plaza Ortigas, San Miguel Avenue Ortigas Center 1605 Psig Address : City, Philippines TIN :		P.O. No. : GIAE-PO-2022-03-0076 Date : March 01, 2022 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 Date of Delivery :		Delivery Term : 90 to 120 CD Payment Term :			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
	lot	Electrospinning Machine, Vertical Set-up, Automated TL-OMNI Includes the following: 1. Two High voltage power supply devices: 1st, 0~50KV, digital display, over-current & over-voltage protection. Output power<25W. 2nd, -20KV ~0, digital display, over-current & over-voltage protection. 2. Four-channel syringe pump: Totally 4 channels, each channel can be controlled independently for individual syringe. 3. Drum collector, 1 set. Drum 1: D=100mm, L=300mm, (1-5000rpm) Drum 2: D=140mm, L=50mm for collecting highly aligned nano fiber sheet. (1-5000rpm) Big size drum collector: D=159mm, length=500mm, speed≤600rpm Mandrel: D=2, 3, 4, 5, 6, 8mm, L=300mm. (1-5000rpm) Disk collector: D=140mm. (1-5000rpm) 4. Plate collector with holder, 150mm 150mm, 1pc. 5. Spinnerets with various holders. 5.1 Single-needle spinneret with holder 5.2 Coaxial spinneret with holder 5.3 Side by side nozzle 5.5 Tubeless spinneret, for small amount solution. Two nozzles of 10ml or 20ml can be used at the same time. A small amount of solution can be spun without tubing. 5.4 V-shape spinneret, 16 needles 5.6 Microsphere spinneret 6. Light source: Special designed light source, LED, cold light source, very useful for observing the spinning process by naked eyes. 7. Exhaust fan. This device is equipped to cool down the equipment in working process, and help the solvent vaporization. 8. Heater Heater on the top chamber: The best working temp. is 45-50 degree C. Please increase the temp. slowly when heating. In winter, heater is quite useful for solvent volatilization. 9. Dehumidifier: insert dry air to control the humidity inside the chamber. 10. Safety Measures: Emergency Stop Button; Door safety lock. (The high voltage power will be shut down automatically when door opened.); Static removing system.	1	3,349,500.00	3,349,500.00

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22. 075TF

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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 : 90-120 CD			
Date of Delivery :		Payment Term :			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		11. Spinneret motion control system: X-Z moving system; X direction: left and right reciprocating motion. Program control. Maximum travel distance: 600mm, speed 0 40mm/s; Z direction: move up and down. Program control. Movement distance: 200mm. 12. Syringe & soft tube: 100 syringes including 10ml, 20ml, 50ml. 13. Online auto cleaning device for needles. 14. XY Platform: ϕ 159mm, length= 500mm, speed \leq 600rpm, minimum step size: 3um; Effective movement distance: X axis y axis = 300*300 mm; Import form: CAD format and programming input; Speed range: 0~8000mm/min; Material: made of insulating plastic. 15. PTFE tubing with connectors, 100 Nos. 16. Tool box: 1 set 17. Temp. & Humidity meter. 18. Chamber, insulation inner chamber. 19. Other accessories. * Warranty of 1 year on parts and service and 6 months on accessories. After sales service will be provided <i>installation, commissioning, and on-site training by personnel</i> *Pre-installation requirement Ceiling Height of >2.5m; Floor space of 2m x 2 m for placement of the system. This machine is a floor standing equipment, it can be put on the ground directly. Reliable grounding equipment, at least 3 plug bases with good grounding. Exhaust pipes: Connecting with exhausting system of the machine. Inner Diameter of the pipe=100mm.			
END USER: DR. RONALDO R. PARREÑO JR.					3,349,500.00
Less: VAT					149,531.25
EWT					29,906.25
					179,437.50
					3,170,062.50
(Total Amount in Words) Three million, one hundred seventy thousand, sixty two and 50/100					
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, ANNABELLE V. BRIONES, PhD Signature over Printed Name of Authorized Official Director Designation			
Signature over Printed Name of Supplier Date		Signature over Printed Name of Supplier Date			
Fund Cluster : <i>Grand Fund</i> Funds Available : <i>3,349,500.00</i>		ORS/BURS No. : <i>FEU-2022030218</i> Date of the ORS/BURS: _____ Amount : <i>3,349,500.00</i>			
DOE FUNDED: "Establishment of Fuel Cell R&D and Testing Facility (YEAR 1)" Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit		SOLEDAD S. REYES Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit			

pat 03/09/22