

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

19.064 GF

Supplier: DAKILA TRADING CORP.		P.O. No.: 2019-02-0070 (GFE)			
Address: 208 Pilar St., Mandaluyong City		Date: February 11, 2019 Mode of Procurement: Public Bidding			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery: Metrology Building (not later than 4:30 pm) Date of Delivery:		Delivery Term: 120 days Payment Term:			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	Supply, Delivery, Installation and Commissioning of One (1) Freeze Drying Unit BUCHI Lyovapor L-300 PROMODULAR With Heatable Shelves 4 & Manifold Top 12 + Vacuum Pump "Pfeiffer Duoli" Code: 11L300PH2425102004 Includes the ff: Top Cover Stoppering D300mm Code: 11064314 Ampoule Adapter for Manifold with 19 ampoule connections and cap adapter Code: 11065725 Laboratory Ampoule Melting Sealing Machine Sample Tray, Stainless Steel, D220mm Code: 11061439 Manual Ampoule Scaler UPS Lyovapor™ L-300 Key features and advantages Modular Drying Chamber Changeable to your application needs Accessible Connections Easy access to connections for external sensors and vacuum pump Endless Ice Capacity Two condensers -105°C Intuitive Interface All process parameters at a glance Convenient Trolley Easy movement of the instrument due to durable wheels Infinite-Technology™ The Lyovapor L-300 is equipped with two small ice condensers. The Smart-Switch ensures stable pressure in the drying chamber and allows for the independent loading of the condensers. The condensers are automatically defrosted and hygienically cleaned with steam, allowing for infinite lyophilization. Small condenser volume enables use of smaller and more economical vacuum pump. Continuous Infinite ice capacity due to alternate loading Stable pressure due to Smart-Switch Reproducible process due to stable parameters: Cooling temperature, shelf temperature variation ±1 °C and vacuum pressure Lyophilization of water and organic based solvents with -105 °C Convenient User-friendly and clearly arranged touch-screen control panel Get push notifications and process parameters anytime, anywhere using the BUCHI Monitoring App Advanced software for creating and managing methods, data recording and reporting Maximum flexibility regarding display positioning (at front or side)	1	4,998,000.00	4,998,000.00

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TIN:					
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Place of Delivery: Micrology Building (not later than 4:30 pm)		Delivery Term: 120 days			
Date of Delivery:		Payment Term:			
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		TOTAL CARRIED FORWARD			
		Save your precious product due to sample protection state Economical Less maintenance due to fully automatic and hygienic cleaning of the ice condenser Always ready to use due to infinite capacity Just one device needed for different users Low energy consumption due to small ice condenser volume Overview of Lyovapor™ L-300 Solutions L-300 Pro Modular Lyovapor™ L-300 1 Vacuum sensor 1 Integrated Vacuum control 1 Vacuum pump Duo II * Drying chamber heatable shelf 1 Drying rack manifold 1 User interface Pro Additional external vacuum sensors * Lyovapor™ Software * BUCHI Monitor APP 1 * Optional, according to order code Technical Data Lyovapor™ L-300 Dimensions without drying attachments (WxDxH) 710 x 1000 x 900mm Weight 250kg Minimum clearance on all sides 400mm Power supply 3 x 208 - 220 VAC Power consumption (rated) 3500 W Power consumption (maximum) 6000 W Lug 16 A Frequency 60 Hz Overvoltage category II Protection rating IP20 Pollution degree 2 Condensing capacity ≥ 12 kg/24 h Lowest condenser temperature -105°C Temperature divergence ±1.0°C Condenser capacity Unlimited Condenser surface area 2 x 1280cm² Number of compressors 2 Refrigerant 1 R507 CPC-Free Refrigerant 1 quantity 790g Refrigerant 2 Ethylene CFC-Free Refrigerant quantity 2 80g Drying shelf temperature to 60°C Drying shelf temperature tolerance ±1.0°C Inlet water temperature 15 - 20°C EMC to EN 61326 Class B			

19.064 EF

FINANCIAL MANAGEMENT DIVISION
CONTROLLED BY: J. L.