

22. 4977F

Appendix 6

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : **GULL-BERN CORPORATION**

Address : 14 San Francisco cor. San Rafael St., Kapitolyo, Pasig City, 1603, Philippines

TIN :

P.O. No. :

GIAE-PO-2022-06-0487

Date :

JUNE 8, 2022

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Mode of Procurement : PB

220799

Place of Delivery : Metrology Building

Date of Delivery :

Delivery Term : 90 CD

Payment Term :

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	<p>SUPPLY, DELIVERY, LABOR, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT MICROWAVE EXTRACTOR FOR FRAGRANCES</p> <p>MICROWAVE GREEN EXTRACTION OF NATURAL PRODUCTS Brand: MILESTONE Model: Ethos X P/N : 49320 Origin: ITALY Ethos X Microwave Green Extraction of Natural products with Terminal 480. 230V-60Hz Main technical specifications</p> <p>>The system must be equipped with n°2 magnetron of 950W (each) for a total power of 1.900W.</p> <p>>The microwave cavity must have the following dimensions 43cm (W) 40cm (D) 41cm (H) and a volume of 70,5L to ensure maximum safety of operation and be suitable for high throughput rotors. Dedicated stainless steel distillation module with high condensation efficiency and special designed for collection and separation between water phase and volatile fraction. The system must be designed to collect the organic phase while the condensed water is automatically refluxed in the extraction reactor inside the microwave oven.</p> <p>>Specific glassware designed to work in microwave hydrodiffusion and gravity set-up. A condensation system for the condensation of the vapour in the bottom part of the instrument is required.</p> <p>>The microwave cavity must have a hole in the centre of the cavity designed for the connection between the internal part and the outside part of the cavity designed to work in microwave hydrodiffusion and gravity set-up. The hole must be designed in order to avoid microwave leakage.</p> <p>>Technically covered by European Patent EP 1955749A1, Microwave hydrodiffusion for isolation of natural products.</p> <p>>The software must be available in 11 languages, icon-driven, with a built-in library. The software must display simultaneously time, power, temperature.</p> <p>HARDWARE</p> <p>>18/8 stainless steel housing with multi-layer PTFE coating with a large flange with 36 mm ID. Additional multiple ports on the side walls of the microwave cavity.</p> <p>>Protected against acids and solvents with polymer coating on both inner and outer surfaces.</p> <p>>Self-resealing pressure responsive door mounted on springs, to ensure maximum safety even in case of overpressure release.</p> <p>>Door completely made of 18/8 stainless steel.</p>			

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		<p>>An automatic door locking system ensures to keep the door closed until the set temperature is reached. User can modify the set temperature according to the lab needs.</p> <p>>Four independent door safety interlocks to prevent microwave emission in case of improper door closure or misalignment.</p> <p>>Built-in exhaust system located above the microwave cavity and separated from the electronics to prevent corrosion.</p> <p>>Dual magnetron system with rotating diffuser for homogeneous microwave distribution in the cavity.</p> <p>>>Exclusive magnetron protection from reflected microwave power</p> <p>>>Continuous and PID-controlled microwave emission at all power levels</p> <p>>>Emission and Safety Norms: EN61010-1:2001;EN61010-2-010:2003;UL61010 1:2004;CAN/CSA-C22.2 No 61010-1:2004;CAN/CSA-C22.2 No 61010-2 010:2004;EN61326-1:2006;CEI EN 61326-2-6:2006</p> <p>USER INTERFACE</p> <p>>Touch-screen 4,3" TFT display 480x272 VGA resolution with 16M colors. Icon-driven multilanguage (Chinese, English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, and Turkish) software allowing the user the edit, saving, and run a virtually unlimited number of methods.</p> <p>>Multiple levels access by password, such as User, Administrator and Service.</p> <p>>The software must control all parameter online and display: temperature, time and power directly on the terminal.</p> <p>ADDITIONAL FEATURES</p> <p>>Contact-less temperature control via Infrared sensor up to 300°C.</p> <p>>The reactor must be made up of glass with cylindrical shape. The design of the reactor must allow the easy load of the sample and easy removal of the sample at the end of the extraction.</p> <p>>The glass reactors must be available in different volumes capability: 2, 5 and 12 L.</p> <p>>The glass reactor must be supplied with a holder, specifically designed with a transparent material to microwaves in order to guarantee a safe handling at the end of the extraction.</p>			

22. 4970 TF

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Supplier : **GULL-BERN CORPORATION**
 Address : 14 San Francisco cor. San Rafael St., Kapitolyo, Pasig City, 1603, Philippines
 P.O. No. : **GIAE-PO-2022-06-0487**
 Date : **JUNE 8, 2022**
 Mode of Procurement : PB

Place of Delivery : Metrology Building
 Date of Delivery : 220799

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		>The distillation module must be made of stainless steel with a glass burette for oil/ water condensation. >The condensation module should reflux the condensed water into the reactor with the botanical.			
		Inclusions: P/N: 49320 Ethos X Microwave Green Extraction of Natural products with Terminal 480, 230V-60Hz GLASS REACTORS for fragrances	1	1,900,000.00	1,900,000.00
		P/N: 70950A Glass reactor large (L) 12L complete with glass cover, holder and sealing rings, including: Glass reactor L (pn 70951)	1	400,000.00	400,000.00
		Glass cover for L reactor (pn 70952)	1		
		Holder for L reactor (pn 70953)	1		
		Sealing kit for 12L reactor (pn 70959)	1		
		PTFE sleeve 29/32 (pn 90023)	1		
		FRAGRANCES EXTRACTION KIT P/N: 70990 Fragrances extraction kit, including: pn 91326 Glass condenser 280mm pn 90076 Glass cover (closed)	2		
		pn 91308A Glass extension tube for distillation module 130mm	1	215,000.00	215,000.00
		pn 70991A Distillation module, glass, 10 ml burette	1		
		pn 70196 Silicon Tube (50 cm)	1		
		pn 91210 Quick connect female water connector	3		
		pn 91211 Quick connect male water connector	4		
		pn SGL0021 Centering for glass tube	4		
		pn SLO050 PUR tube for cooling water (blue) (1 mt)	1		
		pn 70992 Glass connector for distillation module	6		
		pn 70963 Silicon grease	1		
		pn 70964 Glass joint 320mm	1		
		pn 70960 Positioning plate	1		
		pn 70961 External glassware support	1		
		pn 91206 Pliers	1		
		pn 91207 Clamps	2		
		pn 90023 PTFE sleeve 29/32	2		
			6		
		P/N 70990-S Stainless steel fragrances extraction kit, including:	1		
		pn 70997 Stainless steel distillation module complete with 25ml flask	1	310,000.00	310,000.00
		pn 70631 Stainless steel distillation module	1		
		pn 70632 O-ring for stainless steel distillation module	1		
		pn 70633 O-ring for stainless steel joint	1		
		pn 70634 Graduated glass connection module	1		
		pn 70635 Stainless steel joint	1		

22. 49077

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 Delivery Term : **90 CD**
 Date of Delivery :
 Payment Term :

Stock/Property No.	Unit	Description	Quantity	Unit Cost	Amount
		pn SLO050 PUR tube for cooling water (blue) (1 mt)	4		
		pn 102697 Connector 1/4	2		
		pn 91210 Quick connect female water connector	3		
		pn 91215 Quick connect male water connector	3		
		pn 70965 Glass joint 29/32 int 22mm	1		
		pn 70960 Positioning plate	1		
		pn 70963 Silicon grease Joint glass tube	1		
		pn 70963 OR0096IT Silicon o-ring Øint 17.13mm 2.62mm	10		
		pn OR3100IT Red silicon o-ring Ø 25.07x2.62mm	10		
		pn 85267-IT Tool for flange-condenser joint	10		
		pn LW2100NS H150-2100NS recirculating water chiller 230V, 50/60Hz	1		
		P/N 70959 Sealing kit for 12L reactor, including:			
		pn 70954 Sealing ring, 303x260 mm, silicon	1	470,000.00	470,000.00
		pn 70955 Holding ring with threaded holes, PTFE	2	512,000.00	512,000.00
		pn 70956 Holding ring with through holes, PTFE	1		
		pn 70069 Hexagonal head screw M12x60mm, PP	1		
		pn AEX2409 Kunied fixing nut. M12. PP	6		
		pn 70954A Sealing ring set, 303x260mm, silicon (5 pieces)	4		
		pn 90023 PTFE sleeve 29/32	1		
		pn 70951 Glass reactor L	1		
		pn 70952 Glass cover for L reactor	2		
		Uninterrupted power supply (UPS)	2		
		Program on installation, testing, commissioning in English	1	70,000.00	70,000.00
		Onsite Training with provided experts on operation, maintenance, troubleshooting with certificate	1		
		Warranty: one 1 year warranty on parts and two (2) years on services from the date of delivery. The said warranty includes a one (1) time Preventive Maintenance Service (PMS) per year and calibration (if applicable), which comprises of basic instrument check and cleaning.	1	105,000.00	105,000.00
		total:			3,982,000.00
		Less: VAT		177,767.86	
		EWT		35,553.57	
					213,321.43
					3,768,678.57

END USER: **ISAIAH U. STA. ANA**

(Total Amount in Words) Three million seven hundred sixty eight thousand six hundred seventy eight pesos and 57/100 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:

[Signature]
DIANA ROSE P. ORTEGA
 Signature over Printed Name of Supplier
JUNE 28, 2022
 Date

Very truly yours,
[Signature]
ANNABELLE V. BRIONES, PhD
 Signature over Printed Name of Authorized Official
 Director
 Designation

Fund Cluster :
ESTABLISHMENT OF HALAL ASSURANCE MANAGEMENT SYSTEM AND HALAL-COMPLIANT STANDARDIZED PROCESS FOR SPA SKINCARE PRODUCTS FOR THE HALAL TOURISM INDUSTRY

ORS/BURS No. : **IFCO 2022 06 1219**

Funds Available :
[Signature] June 27, 2022
PATRICIA HLEY M. MENDOZA
 Signature over Printed Name of Chief Accountant / Head of Accounting Division/Unit

Date of the ORS/BURS: **6/14/22**
 Amount : **₱ 3,982,000.00**

6-20-22