




## PURCHASE ORDER

Supplier : <b>MOLAVE TRADING INC</b>  Address : <b>Regus 4f Topaz Tower, Damosa I.T Park, JP Laurel Avenue, Lanang Davao City</b>  PhilGEPS Registration No. : <b>200110173937565552</b> Tel./Fax No. : <b>(02) 8634-0405 / (02) 8924-2225</b> Registration Certificate : <b>SEC</b>	P.O. Number: <b>2022093920</b>  <b>O2022093920BBA65CE7D</b> Date : <b>Sep 01, 2022</b> P.R. No. : <b>2022064076</b> Procurement mode: <b>Competitive Bidding</b>
Req. Office : <b>Provincial Agriculturist's Office</b>	

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Date of Delivery : _____ Payment Term : <b>ON ACCOUNT</b> Place of Delivery : <b>PAGRO, Government Center, Mankilam, Tagum City</b>	Delivery Term: <b>120 Calendar Days</b>
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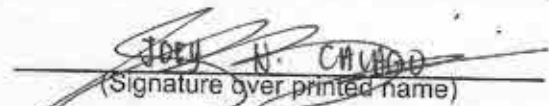
I.N.	Quantity/Unit	Item	Unit Cost	Amount
1	1.00 UNIT	<b>HOTPLATE WITH STIRRER</b> -LED display -7.25 X 7.25 " -Square shape -Stirring range:50 TO 1500 rpm -Temperature (metric) : ambient TO 540 C	29,811.60	29,811.60
2	1.00 UNIT	<b>OPEN AIR ORBITAL SHAKER</b> -Speed range: 15 TO 525 rpm -Touch screen control -Humidity range: 20 TO 80% non-condensing -Operating conditions: 5 TO 40 C -Accuracy: +/- 1 rpm -Includes: 12 X 14 in. 930.5 TO 35.6 cm) universal platform -5 PCS clamps FOR 50 ML Erlenmeyer flask -5 PCS clamps FOR 125 ML Erlenmeyer flask	295,141.10	295,141.10
3	1.00 UNIT	<b>GENERAL PROTOCOL OVEN, 65L CAP</b> -Temperature (metric): 50 C TO 250 C -Gravity convection type -No. of shelves: 2 supplied -Controller type: microprocessor control with vacuum fluorescent display -Temperature stability: +/-0.4 deg C -Timer: ON/OFF built-in timer -Electrical requirements: 230V, 50/60 Hz, 13.5 A,	118,035.00	118,035.00


**For the use of the Soil Testing Laboratory**

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 (Signature over printed name)  
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 (Date)


  
**EDWIN T. JUBAHIB**  
 Governor

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ALEJANDRO R. OMILA JR.



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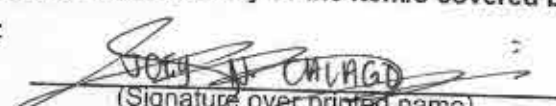
I.N.	Quantity/Unit	Item	Unit Cost	Amount
4	1.00 UNIT	<b>3100 W</b> <b>DUCTED FUMEHOOD WITH BUILT IN BLOWER</b> -Glacier white powder-coated -16 gauge steel exterior and interior -Two piece adjustable baffle -3/16" thick tempered safety glass -Vertical rising sash with epoxy coated aluminum sash handle -Removable front panel for access to electrical wiring -Belt-driven blower with adjustable sheave -Powder coated steel base and housing -Corrosion-resistant coated aluminum impeller -ACCESSORIES: cupsink and turret kit, flat solid epoxy work surface, electrical receptacle, acid storage cabinet MUST CONFORM TO THE FOLLOWING REGULATIONS AND STANDARDS: -CFR 29, PART 10920,SEFA 1-2010, NFPA 45-2011, ASHRAE 110-1995, ANSI Z9.5-2011 -UL 61010-1, CAN/CSA C 22.2 no. 61010.1 -UL 1805, SEFA 8-2010, CABINET SURFACE FINISH TESTS -CE CONFORMITY MARKING (220 V MODELS)* PRE-WIRED 100- WATT VAPOR	815,000.00	815,000.00
5	1.00 UNIT	<b>BENCH TYPE PH METER</b>	50,000.00	50,000.00

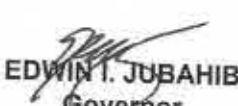
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I.N.	Quantity/Unit	Item	Unit Cost	Amount
		<b>MEASURING RANGE:</b> -Voltage: + 1500.0 mV -pH: 0 TO 14.0 -Temperature: -5 TO +105 deg C <b>RESOLUTION:</b> -Voltage: 0.1 mV -pH: +/-0.01 -Temperature: +/-0.10 deg C <b>ACCURACY:</b> Voltage: 40.4 mV pH +/-0.01 Temperature: +/-0.10C Automatic calibration with revognition up to 16 buffers		
6	1.00 UNIT	<b>TOP LOADING BALANCE</b> -Weighing capacity (g): 2,200g -Readability: 0.01 g -Pan size (mm): 180 x 180 mm dia -Repeatability: 0.01g -Response time (SEC): 1.1 sec -Internal calibration	85,000.00	85,000.00
7	1.00 UNIT	<b>SOIL GRINDER 220V</b> <b>FEATURES:</b> -The hopper has a 1 pint (0.473 L) capacity and features a manually operated gate to control the feed rate to the grinding chamber. The operation is	196,000.00	196,000.00

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8	1.00 UNIT	<p>simple: just load the hopper, start the grinder, and use the gate to control the material feed. A NO. 10 92.0 mm) perforated stainless steel plate is included to retain larger particles. Most soil types are processed completely in less than 30 seconds per pint.</p> <p>TECHNICAL SPECIFICATION:                      -HOPPER Capacity: 1 pint (0.437L)                      -1725 revoultion per minute                      -Electrical: SA-45 F: 220V/50Hz, 1 phase, 1/3 HP, 7.0 Amps                      -Product dimensions: 12 X 15 X 19 in. (305 X 381 X 483 mm)                      -Estimated shipping weight: 34.01 lb (15.42 kg)</p> <p><b>SIEVE SHAKER WITH SIEVE SET (MULTIPLE DIRECTION), 12" TEST SIEVE</b>                      -230 V, 1725 rpm, 60 cycle current                      -Oscillations per minute: 278 +/-10                      -Oscillations displacement: 1-1/8 IN. X 7/16 in.                      -Taps per minute: 150+/-10                      -Dimensions: 28" wide 21" deep X 25" high (71 cm X 54 cmX 64 cm)                      -Includes 4 pcs. sieve test, stainless, No. 10 mesh 9, 2.0 mm, 12" dia, 2" ht.</p> <p>FEATURES:                      -Requires minimal maintenance</p>	425,000.00	425,000.00

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9	1.00 UNIT	-Heavy duty use -Features 99 minute digital timer/clock, tolerance, 0.1 second -Each unit is test run and serialized prior to shipment  <b>ATOMIC ABSORPTION SPECTROPHOTOMETER (AAS)</b> -A standalone AA system, keyboard controlled atomic absorption spectrometer fitted with two lamp position and automatic lamp selection --Utilizes a built-in keyboard for setup and control with result display on a rugged LCD screen. <b>MONOCHROMATOR:</b> double beam spectrometer; wavelength range is 185-900 n; wavelength repeatability: +/-0.04nm; 250mm focall length Czerny-Turner monochromator with microstepping driver for enhanced resolution; software controlled wavelength selection and peaking; features a holographic diffraction grafting with 1200 lines/mm blazed at 240nm; R446 photomultiplier tube; Automated slit selection; Settings: 0.2, 0.5 and 1.0 nm <b>LAMPS:</b> support for 2 lamps mounted in fixed positions; fast lamp selection using mirror with automated selection; Lamps secured by the base without restraining clips or power cables; pre-warming of second lamp.	1,770,000.00	1,770,000.00

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		<p><b>BACKGROUND CORRECTOR:</b> High intensity deuterium background corrector covering wavelength range 185-425 nm; corrects up to 2.3 background absorbance; 2 ms response; electronic modulation with automatic gain attenuation for improved beam balance; Deuterium lamp easily aligned and replaced by the user; optimized electronic control ensures long lamp lifetime.</p> <p><b>GAS CONTROL:</b> Automatic gas control with preset oxidant flow and manual fuel flow control with flow display using a flow meter; Ignition on air/acetylene with automatic oxidant change-over; interlocked safety system.</p> <p><b>FLAME SAFETY SYSTEM:</b> Separate ignite and flame off buttons. ignition occurs only when the ignite button is held. Eight safety interlocks, separate upper and lower flame shields and a chimney protect the operator against heat and UV radiation from the flame.</p> <p><b>FLAME ATOMIZATION:</b> Fluorinated high density polyethylene spray chamber compatible with acidic and organic solutions, manual adjustment of burner height and burner rotation.</p> <p><b>MANDATORY INCLUSION:</b> 2 pcs hollow cathode lamps, uncoded, 2 bots AAS standard solution, gas lines for air and acetylene (not &gt; 10 meters), exhaust system and ductworks, AVR (2KVA).</p>		

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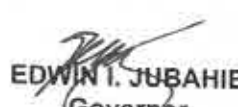
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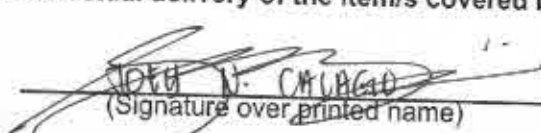
I.N.	Quantity/Unit	Item	Unit Cost	Amount
		Acetylene regulator, air compressor & filter, desktop computer with inkjet printer. <b>ADDITIONAL REQUIREMENT:</b> -Includes delivery, installation, commissioning and on-site training -12-month warranty support -supplier must provide certificate of training from the manufacturer foe technical engineer -supplier must provide certificate of training from the manufacturer for the application chemist that he/she is capable to conduct and perform training onsite -supplier must provide certificate of exclusive/authorized distributor fro the product they offer		
10.	1.00 unit	<b>UV VIS SPECTROPHOTOMETER</b> SOURCE: Unique full spectrum Xenon flash lamp (80 Hz) MONOCHROMATOR: Czerny-Turner GRATING: Holographics, 27.5 x 35 mm, 1200 liters/mm, blaze angle 8.6 degree at 240 nm BEAM SPLITTING SYSTEM: Beam splitter DETECTORS: 2 silicon diode detectors for simultaneous sample beam and reference beam measurements UV VIS LIMITING RESOLUTION (nm) : lesser than or equal 1.5 nm	568,000.00	568,000.00

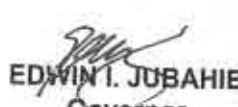
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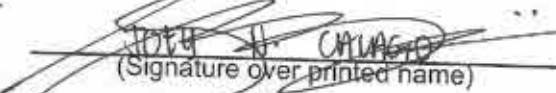
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		WAVELENGTH RANGE: 190-1100 nm wavelength range WAVELENGTH ACCURACY: +/- 0.06 at 541.94 nm WAVELENGTH REPRODUCIBILITY: +/- 0.01 nm PHOTO METRIC RANGE: +/- 4.0 Abs PHOTO METRIC ACCURACY: using NIST 930 E filters at 1 Abs: +/-0.0007 Abs PHOTO METRIC DISPLAY: +/- 9.9999 Abs, +/-200.00 % T MAXIMUM SCAN RATE: 24,000 nm/min maximum SPECTRAL BANDWIDTH: Fixed at 1.5 nm (approximately) SLOW RATE: 24,000 nm/min DATA INTERVAL: 0.15-5.0 nm REPETITIVE SCANNING: 4800 data points per minute, maximum number of cycles: 999, maximum cycle time (min): 9999 DATA COLLECTION RATE: 80 data points/second MANDATORY INCLUSION: 3.5 ml, 10mm Pathlength quartz cuvette (pair), desktop computer, windows 10, 64-bit, printer AVR 2KVA		
11	1.00 unit	<b>SEMI AUTOMATED DISTILLATION UNIT</b> -Automatic dilution, alkali addition, distillation and tube emptying which provide ease of use -Official and accurate procedures (ISO, AOAC, EPA, DIN) to simplify validation	500,000.00	500,000.00

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- Patented SAFE feature for safe distillation of tubes with salt cakes
- Built-in safety systems for user protection
- Self adjusting cooling water control which saves water and reduces costs
- Alkali resistant plastic splash head & tube emptying vessel for long lifetime
- INSTALLATION AND OPERATIONAL SPECIFICATIONS
- Power consumption: 2200 W
- Power supply: 200-240 VAC, 5-60 Hz
- Water supply: 11/min at 15 deg C, 3 1/min at 25 deg C, a circulating water cooler is recommended at > 25 deg C
- Ambient temperature: 5-40 deg C
- Ambient humidity: maximum 80% relative
- PERFORMANCE DATA
- Analysis time: 3.5 min at 30 mg N (6.5 min at 200 mg n)
- Distillation capacity: Approx. 40 ml/min at 230 V (at 100% steam addition)
- Measuring range: 0.1-210 mg n at 230V
- Reproducibility: 1% RSD Including the digestion step)
- Recovery: >99.5% at nitrogen levels between 1-200 mg Nc
- Tube draining: 200ml in less than 10s

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Registration Certificate : SEC

Date : **Sep 01, 2022**

P.R. No. : 2022064076

Procurement mode: **Competitive Bidding**

Req. Office : **Provincial Agriculturist's Office**

Gentlemen: Please furnish this office the following articles subject to terms and conditons contained herein:

Date of Delivery : \_\_\_\_\_ Payment Term : **ON ACCOUNT**

Place of Delivery : **PAGRO, Government Center, Mankilam, Tagum City**

Delivery Term: **120 Calendar Days**

I.N.	Quantity/Unit	Item	Unit Cost	Amount
		-Reagent pump volumes: 0-150 ml in steps of 10ml -Variable steam addition: 30-100% in steps of 10% -SAFE (Patented): 0-15 seconds <b>MANDATORY INCLUSION</b> -Handling devices for digestion tube -1 set of tanks with level sensors for waste, alkali and water -1 receiver flask -1 digestion tube 250 ml - 1 digestion tube 100 ml -1 combi adapter -PM Kit -AVR 3kVA		
12	1.00 unit	Analytical Balance Weighing capacity (g): 220 g Pan size (mm): 90 mm Readability (g) : 0.0001 Repeatability (g): 0.0001 Linearity (g) :0.0002 Response time (ave. sec): 2.5 Calibration: Internal	130,000.00	130,000.00
13	1.00 unit	VORTEX MIXER Speed: 200-300 rpm Orbit diameter: 4 mm Load bearing capacity: 0.5 kg Platform material: rubber, plastic	18,005.40	18,005.40

For the use of the Soil Testing Laboratory

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.

I hereby conform that **NOTICE TO DELIVER** shall be served to the **PLACE OF DELIVERY** stated herein three (3) days before the actual delivery of the item/s covered by this Purchase Order.

Conforme :

(Signature over printed name)

Very truly yours,

**EDWIN T. JUBAHIB**  
Governor


Oct. 03, 2022  
(Date)

**NOTE:** This is an important paper and will cause great inconvenience if lost. Claim for payment from the Provincial Treasurer supported by this form to be attached to the voucher.

**ALEJANDRO R. OMILA JR.**



# PURCHASE ORDER

Supplier : <b>MOLAVE TRADING INC</b>	P.O. Number: <b>2022093920</b>
Address : <b>Regus 4f Topaz Tower, Damosa I.T Park, JP Laurel Avenue, Lanang Davao City</b>	 <b>O2022093920BBA65CE7D</b>
PhilGEPS Registration No. : <b>200110173937565552</b>	Date : <b>Sep 01, 2022</b>
Tel./Fax No. : <b>(02) 8634-0405 / (02) 8924-2225</b>	P.R. No. : <b>2022064076</b>
Registration Certificate : <b>SEC</b>	Procurement mode: <b>Competitive Bidding</b>
Req. Office : <b>Provincial Agriculturist's Office</b>	

Gentlemen: Please furnish this office the following articles subject to terms and conditons contained herein:

Date of Delivery : _____	Payment Term : <b>ON ACCOUNT</b>
Place of Delivery : <b>PAGRO, Government Center, Mankilam, Tagum City</b>	Delivery Term: <b>120 Calendar Days</b>

I.N.	Quantity/Unit	Item	Unit Cost	Amount
		Display: LED Timer: 1-99 mins, 0 continuous Electrical requirements: 230 V; 50/60 Hz; AC 100 V		

- Remarks :
- 120 CAL. DAYSTERMS AND CONDITIONS:
1. Includes delivery, installation, commissioning and on-site training of the laboratory in-charge of the requisitioning office and must be available for follow-up technical services of the equipment when so required.
  2. 12-month warranty support
  3. Supplier must provide certificate of training from the manufacturer for technical engineer provided he/she is trained and capable to conduct installation, commissioning and PMS.
  4. Supplier must provide certificate of training from their manufacturer for the application operation of the laboratory in-charge of the requisitioning office that he/she is capable to conduct and perform training onsite.
  5. Supplier must provide certificate of exclusive/authorized distributor for each product they offer.


The award is based on Abstract No. **0820223741** created on **August 15, 2022** and resolved on **September 01, 2022** under Quotation No. **20224561B** opened on **August 11, 2022**

<b>For the use of the Soil Testing Laboratory</b>	
Grand Total Amount in Words : <b>FOUR MILLION NINE HUNDRED NINETY-NINE THOUSAND NINE HUNDRED NINETY-THREE AND 10 / 100</b>	GRAND TOTAL : <b>₱ 4,999,993.10</b>


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.

**I hereby conform that NOTICE TO DELIVER shall be served to the PLACE OF DELIVERY stated herein three (3) days before the actual delivery of the item/s covered by this Purchase Order.**

Conforme :

  
(Signature over printed name)

**Very truly yours,**

  
**EDWIN I. JUBAHIB**  
Governor

**Oct. 03, 2022**  
(Date)

**NOTE:** This is an important paper and will cause great inconvenience if lost. Claim for payment from the Provincial Treasurer supported by this form to be attached to the voucher.

**ALEJANDRO R. OMILA JR.**