

SUPPLEMENTAL/BID BULLETIN

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ADDENDUM 2019-03

SUPPLY, DELIVERY, AND INSTALLATION OF VARIOUS SCIENTIFIC EQUIPMENT FOR THE DOST TUKLAS LUNAS ETP PROJECT

17 May 2019

This Addendum No. 2019-03 is issued to modify specifications in the attached Bid Documents and Bill of Quantities for the Project. This shall form an integral part of the Bid Documents.

	Specifications	
	Original	Revised
Lot 1		
20L Rotary evaporator w/ vacuum pump and cooler	A.20L explosion proof rotary evaporator: specifications Rotary Bottle 20L (flange φ95) Collecting Bottle 10L (flange φ60) Condenser Vertical three backflow, φ130*680mm(main), φ160*530mm(SUB) Charging Valve 34#(standard size) Rotating Speed 0-110 rpm Vacuum -0.098 Mpa Temperature control range 0-400°C Temperature control accuracy ±1°C	A.20L explosion proof rotary evaporator: specifications Rotary Bottle 20L (flange φ95) Collecting Bottle 10L (flange φ60) Condenser Vertical three backflow, φ130*680mm(main), φ160*530mm(SUB) Charging Valve 34#(standard size) Rotating Speed 0-110 rpm Vacuum -0.098 Mpa Temperature control range 0-400°C Temperature control accuracy ±1°C

	Rotating power 120 W Heating power 5 KW Power supply 220/50 V/Hz External size(W*D*H) 1100*600*2100 mm Standard Accessory 20Lrotary bottle*2, 10Lcollecting Bottle*2 Explosion-proof transducer, Explosion-proof motor EX120W	Rotating power 120 W Heating power 5 KW Power supply 220/50 V/Hz External size(W*D*H) 1100*600*2100 mm Standard Accessory 20Lrotary bottle or flask*2, 10Lcollecting Bottle*2 Explosion-proof transducer, Explosion-proof motor EX120W
	B.Vertical Circulating Water Vacuum Pump: Specifications Flow Rate (L/min) Approx. 80 Lift (m) Approx. 12 Power (W) Approx. 370 Single end sucking rate (L/min) Approx. 10 Water storage tank volume(L) Approx. 50 Vacuum Degree (Mpa) -0.098 or better Voltage/Frequency (V/Hz) 220/50	B.Vertical Circulating Water Vacuum Pump: Specifications Flow Rate (L/min) Approx. 80 Lift (m) Approx. 12 Power (W) Approx. 370 Single end sucking rate (L/min) Approx. 10 Water storage tank volume(L) Approx. 50 Vacuum Degree (Mpa) -0.098 or better Voltage/Frequency (V/Hz) 220/50
	C.Recirculating Chiller: Specifications Temperature Control Range 5 °C ~ 40°C Temperature Control PID Temperature Stability ±0.3°C Temperature Sensor PT100 Display Resolution 0.1°C Pump Flow Rate 20L/min Cooling Capacity 1.2Kw Refrigerant R134a Pump Capacity Pressure 0~1.5bar Filling Volume Liters Min. 8L Power Supply AC220V±10%, 50Hz	C.Recirculating Chiller: Specifications Temperature Control Range Not lower than 5°C Temperature Control PID Temperature Stability ±0.3°C Temperature Sensor PT100 Display Resolution 0.1°C Pump Flow Rate 20L/min Cooling Capacity 1.2Kw Refrigerant R134a Pump Capacity Pressure 0~1.5bar Filling Volume Liters Min. 8L Power Supply AC220V±10%, 50Hz

Lot 2

Flash chromatography system with advanced solvent evaporation set up	A.Flash Chromatography System: Specifications		A.Flash Chromatography System: Specifications	
	Solvent delivery	Two constant volume (3 mL) electric HPFC pumps	Solvent delivery	Two constant volume (3 mL) electric pumps
	Flow rate	1–200 mL/min	Flow rate	1–200 mL/min
	Pressure limit	145 psi (10 bar)	Pressure limit	145 psi (10 bar)
	Sample Interval	Milligrams–75 grams	Detector	PDA
	uV Detection	variable wavelength (200–400 nm)	uV Detection	variable wavelength (200–400 nm)
	Flow cell path length	0.3 mm		
	uV collection modes	Single/dual/λ-All wavelengths (variable UV and UV-VIS)	uV collection modes	Single/dual/λ-All wavelengths (variable UV and UV-VIS)
	Fractionation modes	Volume, threshold, threshold with volume, low slope, medium slope, custom slope or via external detection	Fractionation modes	Volume, threshold, threshold with volume, low slope, medium slope, custom slope or via external detection
	Collection vessels	Test tubes (13 mm, 16 mm, 18 mm, and 25 mm) and bottles (120 mL, 240 mL, and 480 mL)	Collection vessels	At least 100 test tubes each with rack (13 mm, 16 mm, 18 mm, and 25 mm) And at least 2 bottles each (100-150 mL, 200-250mL, and 350-500 mL)
	Power	100–240 VAC, 50/60 Hz, 4.0 A	Power	100–240 VAC, 50/60 Hz, 4.0 A
	System Control & Data management	On-board computer with 10.4" touch screen interface	System Control & Data management	On-board computer with touch screen interface
	Dimensions	355 mm (14") x 596 mm (23.5") x 497 mm (19.6") add 178		
	INCLUDES the FOLLOWING:	Compatible C18 silica flash cartridges of at least one (1) of each: 10g, 20g and 120g (or of similar sizes) four (4) pcs Collecting Rack for test tubes	INCLUDES the FOLLOWING:	Compatible C18 silica flash cartridges of at least one (1) of each: 10g, 20g and 120g Initial Solvent Set: 2 4L of Methanol and LCGrade Water With test kit and user acceptance training for personnel
	B.Advance Solvent Evaporation Set-up: Specifications		B.Advance Solvent Evaporation Set-up: Specifications	
	Solvent Compatibility	Boiling points from 30 °C to 160 °C (up to 205 °C with an external vacuum pump).	Solvent Compatibility	Boiling points from 30 °C to 160 °C (up to 205 °C with an external vacuum pump).
	Heating	20 °C to 70 °C	Heating Control	20 °C to 70 °C
	Rotational Speed	3000 to 8000 rpm	Rotational Speed	3000 to 8000 rpm

	Condenser	Refrigerated condenser temperature: -25 °C. Automated and manual draining; and manual defrost.	Condenser	Refrigerated condenser temperature: Not higher than -25 °C. Automated and manual draining; and manual defrost.
	Vacuum	Pressure control method: Variable speed and level. Internal vacuum Pump: 4 mbar. Optionally an external vacuum pump can be connected using a KF-16 vacuum flange.	Vacuum	Pressure control method: Variable speed and level. Internal vacuum Pump: 4 mbar. Optionally an external vacuum pump can be connected using a KF-16 vacuum flange.
	Vial Size Compatibility	30 mL scintillation vial 20 mL Scintillation vial 16 mL vial 8 mL Vial 4 mL (3 variants)	Vial Size Compatibility	30 mL scintillation vial 20 mL scintillation vial 16 mL vial 8 mL Vial 4 mL (3 variants)
	Solvent Reclamation	Up to 98% of solvent vapors under typical conditions	Solvent Reclamation	Up to 98% of solvent vapors under typical conditions
	Exhaust	Double trapping	Exhaust	Double trapping
	Electrical Supply	220–240 V~, 50 and 60 Hz, 10 A	Electrical Supply	220–240 V~, 50 and 60 Hz, 10 A
				With test kit and user acceptance training for personnel

For your guidance and information of all concerned.

(Sgd)Prof. Jessica K. Cariño
Chair, Bids and Award Committee

Received by the Bidder: _____
Date: _____