

TECHNICAL SPECIFICATION FOR THE PUBLIC BIDDING OF:

UPLB-S-058-8-17, SUPPLY, DELIVERY AND COMMISSIONING OF LABORATORY EQUIPMENT

DATE OF PRE-BID CONFERENCE:

Wednesday, 26 July 2017 3:00 PM

DEADLINE OF SUBMISSION OF BIDS:

Wednesday, 9 August 2017 UNTIL 1:00 PM

OPENING OF BIDS:

Will follow shortly after the deadline of the submission of bids

LOT #	ITEM #	REQUIRED SECIFICATIONS	OFFERED SPECIFICATIONS (write down detailed offered specifications)	REFERENCES (include supporting documents)	COMMENTS/ REMARKS (clarify inclusion/ exclusion)	EVALUATION
		<i>Supply, Delivery and Commissioning of Laboratory Equipment</i>				
1	1	Brand new and Branded Refrigerated centrifuge and accessories				
PHTRC FC: 8222700 Wella L. Absulio 09189425389 536-3259		<i>Volume: up to 4 x 750 mL</i>				
		<i>Speed: up to 16,000 rpm</i>				
		<i>RCF: up to 26328 x g</i>				
		<i>Dimensions (w/h/t): approx.73/39/67 cm</i>				
		<i>Weight: approx. 111 kg</i>				
		<i>grey lacquered steel sheet housing resistant against shock and chemicals</i>				
		<i>digital display of preset and actual speed/RCF, temperature and time</i>				
		<i>speed is selectable in 10 rpm increments from 200 to 16000 rpm</i>				
		<i>preset of running time from 10 sec to 99 h 59 min. or "continuous"</i>				
		<i>Quick key for short runs with corresponding digital display of elapsed time in seconds</i>				
		<i>program memory to store 99 complete centrifuge runs</i>				
		<i>automatic rotor recognition and speed correction</i>				
		<i>automatic imbalance indication with safety cut off</i>				
		<i>maintenance-free induction motor</i>				
		<i>motor driven lid lock</i>				
		<i>temperature range from -20°C to + 40°C in steps of 1°C</i>				
	<i>CFC-free refrigeration system</i>					
	<i>pre-cooling program option</i>					
	<i>audio signal after stop</i>					

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		<i>centrifuge conforms to CE-requirements</i>				
		<i>manufactured according to IEC 61010 and 61010-2 standard</i>				
		<i>230V, 50/60Hz</i>				
		With/Inclusions:				
		Angle rotor for 4 x 85 ml tubes, hermetically sealable				
		• <i>Max. speed: 16000 rpm</i>				
		• <i>Max. RCF: 26328xg</i>				
		• <i>Angle of rotor: 30°</i>				
		• <i>Max. radius: 9.2 cm</i>				
		Angle rotor for 20 x 10 ml tubes, hermetically sealable				
		• <i>Max. speed: 12000 rpm</i>				
		• <i>Max. RCF: 15775xg</i>				
		• <i>Angle of rotor: 30°</i>				
		• <i>Max. radius: 9.8 cm</i>				
		Angle rotor for 10 x 50 ml tubes (for 50 ml Falcon tubes only)				
		• <i>Max. speed: 10500 rpm</i>				
		• <i>Max. rcf: 16022 x g</i>				
		• <i>Angle of rotor: 38°</i>				
		• <i>Max. radius: 13 cm</i>				
		Angle rotor for 4 x 500 ml tubes				

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		• <i>Max. speed: 8000 rpm</i>				
		• <i>Max. rcf: 10367 x g</i>				
		• <i>Angle of rotor: 24°</i>				
		• <i>Max. radius: 14.5 cm</i>				
		Swing out rotor, 4 places for round and rectangular buckets				
		• <i>Max. speed: 5000 rpm</i>				
		• <i>Max. rcf: 4807 xg</i>				
		• <i>Max. radius: 17.2 cm</i>				
		<i>2 pks x 2 – Round bucket with O-ring and see-through PC screw cap, hermetically sealable, for rotor 220.86 V02 and adapters 711... and 713... incl. insert 613.000</i>				
		<i>2 pks x 2 – Adapter 1 x 100 ml, Ø max. 40 mm; length: 114 mm</i>				
		<i>2 pks x 2 – Adapter 1 x 50 ml Falcon, Ø 29 mm; length: 116 mm</i>				
		<i>2 pks x 2 – Adapter 4 x 15 ml Falcon, Ø 17 mm; length: 120 mm</i>				
		1 – Swing out rotor, 4 places				
		• <i>Max. speed: 4500 rpm</i>				
		• <i>Max. rcf: 4210 x g</i>				
		• <i>Max radius: 18.6 cm</i>				
		1 – Automatic Voltage Regulator (AVR) 3000 Watts				
		<i>Includes atleast 1 pack of centrifuge tubes suitable for each rotor and adapter (approx. 10 pcs./pack/rotor or adapter)</i>				
		<i>Terms: Includes supply, delivery, commissioning and training</i>				

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		<i>Delivery: 60 CD upon receipt of Notice to Proceed</i>				
		<i>Warranty: One year on parts and services or more</i>				
	2	Brand new and Branded Spectrophotometer				
		• <i>Use of long-life xenon flash lamp</i>				
		• <i>Double-beam optical system</i>				
		• <i>Operation by use of tablet terminals</i>				
		• <i>Simple and easy-to-understand performance check function</i>				
		• <i>Automatic 6-cell turret as standard equipment</i>				
		<i>Optical System: Czerny – Turner mount Double beam monochromator</i>				
		<i>Wavelength range: 190 to 1100 nm</i>				
		<i>Spectral band width: 1 nm</i>				
		<i>Stary light:</i>				
		<i>198 nm (KC): 1.0 % or less</i>				
		<i>220 nm (NaI): 0.05 % or less</i>				
		<i>340nm (NaNO₂): 0.05 % or less</i>				
		<i>Wavelength accuracy: ±0.3 nm (at Xe 260.6, 484.3, 881.9 nm Hg 253.7, 435.8, 546.1 nm)</i>				
		<i>Wavelength repeatability precision: ±0.1 n</i>				
		<i>Photometric range Abs: -3.3`3.3 % T: 0`300</i>				
		<i>Photometric accuracy: ±0.002 Abs (0-0.5 Abs); ±0.004 Abs (0.5-1.0 ANIST SRM 930</i>				
		<i>Photometric repeatability: ±0.002 Abs (1.0 Abs)</i>				

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		Scan speed: 10, 40, 100, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min				
		Wavelength drive speed: 8500 nm/min				
		Response: Fast, Medium, Slow				
		Baseline Stability: 0.0005 Abs/h (at 260nm)				
		Noise level (RMS): 0.0001 Abs (at 260nm, 0 Abs)				
		Baseline flatness: ±0.0009 Abs (200'950 nm)				
		Light source (Warranty Period): Xenon flash lamp 5W (7 Years)				
		Detector: Silicon photodiode				
		Measurement modes: Concentration measurement, Absorbance/ Transmittance, Nucleic acid, Wavelength scan, Time scan, Monitor measurement				
		Wavelength calibration: Available The bright line of built-in lamp and low- pressure mercury lamp is used for measurement				
		Sample compartment: Automatic 6-Cell Turret				
		Language: Japanese, English (User-select)				
		Display: iPad (9.7inch color)				
		Printer: PC-compatible printer				
		Printer interface: Wi-Fi or USB				
		Interface: LAN port: connected to a router or PC; USB port: connected to USB memory for use when transferring CSV-format files				
		Remote control: Yes				
		Number of storable method data/ Number of storable measurement data: About 500MB for measurement data and method data. (about 0.01 to 0.1 MB/one file)				

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		<i>Size (Main Unit): 510 x 490 x 280 mm</i>				
		<i>Weight: 19 kg</i>				
		<i>Power: 100, 115, 220, 230, 240</i>				
		<i>Power consumption: 70 W or less</i>				
		<i>Operating Temperature: 15 to 35°C</i>				
		<i>Operating humidity: 25 to 80% condensing. When temperature is 30°C or higher, less than 70 % RH</i>				
		<i>Required Accessories Included:</i>				
		<i>1 Unit Laptop PC (locally supplied)</i>				
		<i>1 Unit Printer (locally supplied)</i>				
		<i>1 Pair Quartz Cuvette</i>				
		<i>1 Unit LAN Cable</i>				
		<i>1 Unit AVR 2 Kva</i>				
		<i>Free delivery</i>				
		<i>Terms: Includes supply, delivery, commissioning and on-site training</i>				
		<i>Delivery: 60 CD upon receipt of Notice to Proceed</i>				
		<i>Warranty: One year on parts and services (under normal usage)</i>				
	3	<i>Brand new and Branded Shaking water bath with platform</i>				
		<i>Description: 27L Shaking Water Bath</i>				
		<i>Reservoir Fluid Control Temperature °C: Ambient +5 to 100</i>				
		<i>Set Point Temperature Range °C: +5 to 100</i>				

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		<i>Ambient Temperature °C: +15 to 45</i>				
		<i>Temperature Stability: ±0.1 °C</i>				
		<i>Stability/Uniformity @ 37°C: ±0.1/±0.05</i>				
		<i>Controller Type: Digital</i>				
		<i>Heating Output watts: 1500</i>				
		<i>Bath Volume: 27L (7.1 GAL)</i>				
		<i>Overall Bath Dimensions (L x W x H) cm: approx.39.4 x 93.8 x 24.9</i>				
		<i>Bath Work Area Dimensions (L x W x H) cm: approx.29.2 x 61.0 x 16.5</i>				
		<i>Tray Dimensions (L x W x H) cm: approx.28.9 x 61.5 x 14.8</i>				
		<i>Tray Depth cm: min. 8.9</i>				
		<i>Shaking Speed rpm: 0 and 30 - 200</i>				
		<i>Stroke Length mm: min 26</i>				
		<i>Max Tray Load kg: 14</i>				
		<i>Approximate Weight kg: 27</i>				
		<i>Electrical Requirements (VAC/Hz) (Voltage ±10%): 200-230/50-60</i>				
		<i>Maximum Relative Humidity (Non Condensing): 80% (up to 31°C)</i>				
		<i>Operating Altitude meters: Sea Level to 2000</i>				
		<i>Overvoltage Category: II</i>				
		<i>Pollution Degree: 2</i>				
		<i>Storage Temperature °C: -25 to +60</i>				
		<i>Cabinet Material: Epoxy Powder Coated Cold Rolled Steel</i>				

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		<i>Chamber Material: 304 Stainless Steel</i>				
		<i>Includes: Stainless Steel Gable Cover, Shaking Tray, and Rubber Duck</i>				
		<i>Easily clean and maintain bath with coil-free design</i>				
		<i>Optimize scheduling with auto-on and auto-off timers</i>				
		<i>Help prevent bath overheating and damage with low-fluid protection</i>				
		<i>Conveniently save commonly used settings with four temperature and shaking speed presets</i>				
		<i>Help protect your work with audible alarms</i>				
		<i>Easily operate and monitor with icon-based graphical display</i>				
		<i>Accommodate taller labware with new hinged lid and extended height</i>				
		<i>Features next-generation shaker motor</i>				
		<i>Free delivery</i>				
		<i>Terms: Includes supply, delivery, commissioning and on-site training</i>				
		<i>Delivery: 60 CD upon receipt of Notice to Proceed</i>				
		<i>Warranty: One year on parts and services (under normal usage)</i>				
	4	Brand new and Branded Water distiller				
		<i>Stainless steel water still with thermostatic low water cut-off and level switch which activates the heater if there is enough level of water in the boiler.</i>				
		<i>Distillate flow rate: approx 7,5-8 l/h</i>				
		<i>Conductivity of distilled water (20°C): approx. 1,5 µS/cm</i>				
		<i>Heater: 6 KW</i>				

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		<i>Cooling water: approx. 84 l/h</i>				
		<i>Material: Inner part: Stainless steel</i>				
		<i>Outer part: Stainless steel & Powder coating</i>				
		<i>Dimensions:(h x w x d): approx. 635x370x260mm</i>				
		<i>Switch: Main power with pilot lamp</i>				
		<i>Sealing: Silicone gasket</i>				
		<i>Safety: Low water level & over heating cut-off</i>				
		<i>Free delivery</i>				
		<i>Delivery: 60 CD upon receipt of Notice to Proceed</i>				
		<i>Warranty: One year on parts and services or more</i>				
	5	Brand new and Branded Ultra low freezer				
		Technical characteristics:				
		<i>Structure : upright type, realized in sheet steel painted white colour (rust- and corrosion-proof) outside and stainless steel 18/10 AISI 304 inside</i>				
		<i>Insulation : injected polyurethane a high density, with a thickness of 130 mm. CFC-free</i>				
		<i>Castors : made in rubber and swivelling in order to make easy any moving required. The castors mounted in the front side are fitted up with brakes with foot lever control to block them once the freezer has been positioned</i>				

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		<i>Door: hinged, fully insulated, externally it is executed in the same material of the structure (sheet steel painted white colour) while internally it has non-conductive material. A perfect hermetic closing is assured through a double gasket system, one, magnetic mounted on the door itself and another one, silicone type, mounted on the structure of the freezer. The gaskets are even provided with a special heating system to prevent the freezing and thanks to the vacuum-release valve the door can be immediately re-opened a closing. In the right part of the door is mounted the effort-free locking mechanism which incorporate the safety key lock</i>				
		<i>Inner doors : hinged, realized in stainless steel 18/10 AISI 304 in the external side and non- conductive material in the internal one. The inner doors prevent air-cold loss at the external door opening and they are also provided with a locking mechanism with a lever</i>				
		<i>Internal equipment : storage shelves realized stainless steel 18/10 AISI 304 that divides the storage chamber in 4 compartments with dimensions (W x D x H) 89 x 59 x 31 cm each. The shelves are mounted on brackets and they can be easily adjusted in height or removed without the use of any tool. Shelf dimensions (W x D) 89 x 59 cm</i>				
		<i>Cryo gloves :solvents and chemicals resistant, washable. Mid-arm length (350/400 mm) and available in different sizes : S, M, L and XL</i>				
		<i>Control panel "PRO2" : located in the bottom part of the structure (under the door) is microprocessor operating with soft touch-pads, LED display and warning lamps, allowing the control of all the functions and working status of the freezer (including alarms). The control panel is battery operating in order to grant the functioning of the alarms even in case of power failure.</i>				
		<i>The main functions of the control panel are :</i>				
		<i>• Digital temperature adjusting and displaying with an accuracy of 0,5°C</i>				
		<i>• Warning lamp signalling when the cooling unit is ON</i>				
		<i>• Keyboard block with a password to avoid tampering from unauthorized persons</i>				
		<i>• Visual and acoustic alarm for high or low temperature with programmable limits</i>				

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		<ul style="list-style-type: none"> • Visual and acoustic alarm for door ajar, delayed of 30 seconds to allow the standard operations 				
		<ul style="list-style-type: none"> • Visual and acoustic alarm for power failure 				
		<ul style="list-style-type: none"> • Visual and acoustic alarm for dirty condenser that limit the cooling unit performances 				
		<ul style="list-style-type: none"> • Visual alarm for discharged battery with the possibility to display the charging status 				
		<ul style="list-style-type: none"> • Temporally muting of the acoustic alarms, with automatic re-activation in case the alarm conditions continues 				
		<ul style="list-style-type: none"> • NO/NC contact 				
		<ul style="list-style-type: none"> • RS485 				
		<ul style="list-style-type: none"> • Temperature recorder : SUPPLIED WITH DIGITAL DATA LOGGER WITH INTERFACE SOFTWARE (USB PORT) 				
		<ul style="list-style-type: none"> • Cooling unit : DUAL COOLING TECHNOLOGY 1100W POWER FINLESS CONDENSER VACUUM INSULATED CHAMBER GUARANTEED MAX. COOLING STABILITY AND UNIFORMITY All the mounted components are industrial grade to grant the maximum reliability 				
		<ul style="list-style-type: none"> • CO2 back-up system : compound by the hose connecting the freezer with the CO2 cylinder, door switch to stop CO2 injection at the door opening and pressure valve (allowing the stabilizing of the freezer internal pressure). Also, on the control panel there is the CO2 system main switch and its pilot lamps (signalling when the system is activated). The full system is battery operating. The CO2 cylinder is not included 				
		Refrigerant : CFC-free				
		Refrigeration : static, with evaporating pipes throughout all the chamber in order to grant maximum temperature stability and uniformity				
		Temperature range : infinitely adjustable between -60°C/ -86°C				
		Voltage (V/ph/Hz) : 220-230/1/60				
		Noise level (dB(A)) : ≤ 52				

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		Capacity (litres) : MINIMUM 710				
		Net weight (Kg) : 380				
		Packed dimensions (WxDxHcm): approx. 140x107x225 (3,38m3)				
		Gross weight (Kg) : approx. 420				
		With: 1 – Uninterrupted Power Supply COMPATIBLE WITH THE MACHINE OFFERED				
		5 pcs-Storage racks : realized in stainless steel 18/10 AISI 304, internally divided to store boxes (not included). The racks are provided with a handle to make easy the handling				
		100 pcs-Boxes: realized in polypropylene suitable for ultra-low temperatures. Every box is provided with cover. Internal divisions are available upon request.				
		Free delivery				
		Delivery: 60 CD upon receipt of Notice to Proceed				
		Warranty: One year on parts and services or more				

Note: Please fill-up applicable columns.

Signature of Representative: _____

Name of Representative: _____

Position: _____

Company: _____

Address: _____

Telephone/ Fax: _____

Email: _____

End-user:

 Signature over Printed Name