

UNIVERSITY OF THE PHILIPPINES BAGUIO  
Governor Pack Road, Baguio City

BID BULLETIN NO. 01  
Bid Reference no.: UPB-BID-2022-08

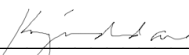
This *Bid Bulletin* for the Project *Supply, Delivery & Installation of Various Genuine Laboratory Equipment for UP Baguio* is issued to clarify, modify and/or amend the item in the Bidding Documents.

Item #	Equipment	REFERENCE	AMENDMENT/ CHANGE/ CLARIFICATION
		Philippine Bidding Documents Bid Reference No.: <i>UPB-BID-2022-08</i>	Philippine Bidding Documents Bid Reference No.: <i>UPB-BID-2022-08</i>
<b><i>VII. Technical Specifications</i></b>			
1	Analytical Balance	brand new, branded	brand new, branded
		Max. Capacity: 200g	Max. up to 220g
		Readability: 0.1 mg	0.1 mg (0.00001 g) or less
		Repeatability, typical: 0.08 mg	0.08 mg (0.000008 g) to 0.2 mg (0.00002 g)
		Settling Time: 2s	AT MOST 3 seconds
		Adjustment: Internal	Built-in internal adjustment/ calibration
		Interfaces: RS232	Includes port (e.g., RS232) for repair technicians to perform diagnostics and service updates
		Minimum Weight (USP, 0.1%, typical): 160mg	Display: Backlit LCD or other types of BETTER display
		Display: Backlit LCD	Weighing Pan Diameter: 80-95 mm
		Weighing Pan Diameter: 90 mm	Housing Materials (of unit as a whole): at least Die-cast aluminum and ABS plastic; glass panels/ doors
		Dimensions (HxWxD): 340-360 mm x 210-215 mm x 340-360 mm	with free demo upon delivery
		Documentation Options: Printing Basic Electronic Documentation	
		Guaranteed Repeatability: 0.1 mg	
		Housing: Die-cast aluminum, ABS	
		Minimum weight (U=1%, typical): 16 mg	
	with free demo upon delivery		
2	Incubator	brand new, branded	brand new, branded
		CAPACITY: 100L TEMP	CAPACITY: 100-160L
		RANGE: 4-60 °C TEMP	Min. range between 0-10°C ; Max. range between 60-99°C
		PRECISION: 0.1°C LCD display	PRECISION: 0.1°C LCD display or better
		Polished stainless steel chamber	Polished stainless steel chamber
		Round angle structure , easy to clean	Round angle structure, easy to clean
		CFC-free eco-friendly refrigerant	CFC-free eco-friendly refrigerant
		Double-layer glass observation window design	Double-layer glass observation window design

		Microprocessor PID temperature control, accurate and reliable	Microprocessor PID temperature control, accurate and reliable
		with wheel caster and safety lock for easy movement	with wheel caster and safety lock for easy movement
		Safety function: Temperature protection threshold value can be set	Safety function: Temperature protection threshold value can be set
		Auto-off protection and alarm for abnormal situation	Auto-off protection and alarm for abnormal situations
		Parameters can be saved automatically when power off or system error	Parameters can be saved automatically when power off or system error
		with free demo upon delivery	with free demo upon delivery
3	Multi-Well Microplate Reader	brand new, branded	brand new, branded
		Light Source: Quartz-halogen lamp 6V/10W	Light Source: Quartz-halogen lamp or better (LED)
		Wavelength Range: 340-850nm	Wavelength Range: 340-750nm OR 340-900nm OR 180-900nm OR 250-950nm
		Optical Filter: 9 channel vertical optical path. Inclusive of 4 standard optical filters: 405nm, 450nm, 492nm, 630nm	Optical Filter: 8-9 channel vertical optical path Includes AT LEAST 4 standard optical filters: 405nm, 450nm, 492nm, 630nm
		Half-bandwidth of filters: 8-10	Preferably with (but not required): fluorescence, and/or luminescence function, shaker, and/or incubator, PC or laptop, software, microplates
		Dynamic Range: 0-4.000 Abs	with free demo upon delivery
		Linearity (405nm): 0-2.000 Abs <±1% 2-4.000 Abs<±2%	
		Accuracy (405nm): ±1% (0-3 Abs) ±3% (3-4 Abs)	
		Precision (405nm): CV≤0.2% (0-3 Abs) CV≤1.0% (3-4Abs)	
		Accuracy (450, 620 and 650nm): 1% ± 0.010 (0-3 Abs)	
		with free demo upon delivery	
4	Plankton Net	brand new	brand new
		Consists of net, of appropriate size and 80µm mesh, with catch tube, mouth ring, 3-point bridle, and Cod-End Jar, Bucket or Bag.	Consists of net (between 70-100µm mesh), with catch tube, stainless steel mouth ring, 3-point bridle, and Cod-End Jar, Bucket, or Bag
		Net material - Nyltex netting, stabilized Dacron collar, seam tape and thread. Double- or triple-stitched for long service under severe seagoing conditions. No baconing effect in sewn seam	Net material - Nyltex netting, stabilized Dacron collar, seam tape and thread. Double- or triple-stitched for long service under severe seagoing conditions. No baconing effect in sewn seam
		Mouth diameter: 30 cm (11.8inch), 50 cm (19.7inch), 75 cm (29.5inch) or 100 cm (39.4inch).	Mouth Diameter: 30 cm or 50cm
		Net length/mouth diameter ratio 3/1 or 5/1.	Net length/mouth diameter ratio: 3/1 or 5/1
		with free demo upon delivery	with free demo upon delivery

5	Refrigerated Centrifuge	brand new, branded	brand new, branded
		Max. RCF: 30,130 x g	Max. RCF: 30,700 x g or higher
		Max. speed: 17,500 rpm	Max. speed: 21,000 rpm or higher
		Max. capacity: 24 x 1.5/2.0mL, 6 x 50mL	With included 24 x 1.5/2.0mL rotor; changeable rotor
		Timer: 30s to 99:59h, with continuous run function	Timer: 30s to 99:59h, with continuous run function
		SOFT brake function: yes	SOFT brake function or speed control & overspeed safety function
		Cooling: refrigerated	Cooling: refrigerated
		Temperature Control Range: negative 10°C to 40°C	Temperature Control Range: -10°C to 40°C
		must be compatible with other types of rotor/s (PCR tubes and 15 and 50 ml conical tubes)	must be compatible with other types of rotor/s (PCR tubes and 15 and 50 ml conical tubes)
		with free demo upon delivery	with free demo upon delivery
			<b>These specifications are for the INCLUDED rotor</b>
	Rotor	Max. speed: 30,130 x g (17,500 rpm)	Max. speed: 30,130 x g (17,500 rpm)
		Max. capacity: 24 x 1.5/2.0mL tubes	Max. capacity: 24 x 1.5/2.0mL tubes
		with free demo upon delivery	with free demo upon delivery
6	Top loading Digital Balance	brand new, branded	brand new, branded
		Capacity: 620g	Capacity/ Max. weight: 600g to 1000g
		Readability: 0.1g	Readability: 0.01g-0.1g
		Dimension (Length*Width*Height): Length: 200- 415mm	Dimension (L*W): 180- 415mm * 180- 415 mm
		Width: 194-215mm	Stabilization Time: 1s-2s
		Height: 70-120mm	Display Type: at least Backlit LCD or better (LED)
		Stabilization Time: 1s	Function includes unit conversion, tare
		Display Type: Backlit LCD	with free demo upon delivery
		Function include unit conversion, tare	
		Built-in output interface for printer and computer	
		with free demo upon delivery	

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**JOEL M. ADDAWE**  
*BAC Chairperson*