UNIVERSITY OF THE PHILIPPINES BAGUIO

Governor Pack Road, Baguio City

BID BULLETIN NO. 2023-01

PROJECT: SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS GENUINE AND BRAND NEW LABORATORY EQUIPMENT FOR UP BAGUIO

(Bid Reference No. UPB-GOODS-2023-11)

TO ALL PROSPECTIVE BIDDERS

Please be informed on the clarifications on the following items during the Pre-bid Conference, viz:

1. Changes in Invitation to Bid No. 2

BID DOCS	CLARIFICATION/ SUGGESTIONS FROM PROSPECTIVE BIDDERS	COMPLY/ NOT COMPY
FROM	TO	
2. The University of the Philippines	2. The University of the Philippines	
Baguio now invites bids for the	Baguio now invites bids for the	
above Procurement Project.	above Procurement Project.	
Delivery of the Goods is required	Delivery of the Goods is required	
within Thirty (30) calendar days	within Sixty (60) calendar days	
upon conforme of the Notice to	upon conforme of the Notice to	
Proceed (NTP)	Proceed (NTP)	

2. Changes in Section III: Bid Data Sheet

BID DOCS	CLARIFICATION/ SUGGESTIONS FROM PROSPECTIVE BIDDERS	COMPLY/ NOT COMPY
FROM	TO	
ITB Clause 5.3	ITB Clause 5.3	
For this purpose, contracts similar to the	For this purpose, contracts similar to the	
Project shall be:	Project shall be:	
a. Experience in the supply and delivery of satellite images.	c. Experience in the supply, delivery and installation of various genuine and brand new laboratory equipment.	
b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.	d. Completed within five (5) years prior to the deadline for the submission and receipt of bids.	

3. Changes in Section VI: Schedule of Requirements for items 1 to 9 under column **Delivery/ Period of Service**

BID DOCS	CLARIFICATION/ SUGGESTIONS FROM PROSPECTIVE BIDDERS	COMPLY/ NOT COMPY
FROM	ТО	

	(60) calendar days upon the receipt of otice to Proceed
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4. Changes in Section VII: Technical Specifications

BID DOCS	CLARIFICATION/ SUGGESTIONS FROM PROSPECTIVE BIDDERS	COMPLY/ NOT COMPY
FROM	ТО	
VARIOUS GENUINE AND BRAND	VARIOUS GENUINE AND BRAND	
NEW LABORATORY EQUIPMENT,	NEW LABORATORY EQUIPMENT,	
specs as follows;	specs as follows;	
(1) Benchtop pH/ORP Meter	(1) Benchtop pH/ORP Meter	
1 to 3 points calibration	1 to 3 points calibration	
· Automatic Temperature Compensation	· Automatic Temperature Compensation	
· Setup menu contains 5 options	· Setup menu contains 5 options	
· Accuracy: 0.01pH.	· Accuracy: 0.01pH.	
Features • 1 to 3 points calibration with automatic recognition for USA and NIST buffers • Automatic electrode diagnosis helps user decide whether to replace the pH electrode • Automatic temperature compensation ensures accurate readings over the entire range • Auto-Read function senses and locks the measurement endpoint • Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, etc. • Reset function automatically resumes all settings back to the factory defaults • Auto-Read function senses and locks the measurement endpoint • Setup menu allows to set the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time, etc. • Reset function automatically resumes all settings back to the factory defaults • Expanded memory stores or recalls up to 500 data sets pH Range -1.00-15.00pH Resolution 0.01pH	Features • 1 to 3 points calibration with automatic recognition for USA and NIST buffers • Automatic electrode diagnosis helps user decide whether to replace the pH electrode • Automatic temperature compensation ensures accurate readings over the entire range • Auto-Read function senses and locks the measurement endpoint • Setup menu allows setting the pH buffer set, number of calibration points, temperature unit, etc. • Reset function automatically resumes all settings back to the factory defaults • Auto-Read function senses and locks the measurement endpoint • Setup menu allows to set the pH buffer set, number of calibration points, resolution, stability criteria, temperature unit, date and time, etc. • Reset function automatically resumes all settings back to the factory defaults • Expanded memory stores or recalls up to 500 data sets pH Range -1.00-15.00pH Resolution 0.01pH	
Resolution 0.01pH	Resolution 0.01pH	
Accuracy ±0.01pH	Accuracy ±0.01pH	

	,	
pH Buffer Options	pH Buffer	
USA(4.01/7.00/10.01),NIST(4.01/6.86/9	USA(4.01/7.00/10.01),NIST(4.01/6.86/9	
.18)	.18)	
ORP	ORP	
mV Range ±1999mV	mV Range ±1999mV	
Relative mV Range /	Relative mV Range /	
Resolution 1mV	Resolution 1mV	
Accuracy ±1mV	Accuracy ±1mV	
Calibration Points /	Calibration Points /	
	Cultorum Foliato	
Temperature	Temperature	
Temperature	Temperature	
Range 0~105°C/32~221°F	Range 0~105°C/32~221°F	
Resolution 0.1°C/0.1°F	Resolution 0.1°C/0.1°F	
Accuracy ±1°C/±1.8°F	Accuracy ±1°C/±1.8°F	
Offset Calibration 1 point, reading	Offset Calibration 1 point, reading	
±10°C	±10°C	
Od a Garaiff a diam	Other Considerations	
Other Specifications	Other Specifications	
Temperature	Temperature	
Compensation 0-100°C, manual or automatic	Compensation 0-100°C, manual or automatic	
Stability Criteria /	Stability Criteria /	
Calibration Due Alarm /	Calibration Due Alarm /	
Slope/Offset Display /	Slope/Offset Display /	
Hold Function Manual or auto-endpoint	Hold Function Manual or auto-endpoint	
Memory / Communication	Memory / Communication	
Interface /	Interface /	
Connector BNC,3.5mm jack socket	Connector BNC and or 3.5mm jack	
Sometor Brogstonin jack socker	socket	
Display Custom LCD(120×60mm)	Display Custom LCD (at least	
	120×60mm)	
Power Requirements DC9V power	Power Requirements DC9V power	
adapter	adapter	
	Dimensions (W*D*H) at least	
Dimensions (W*D*H) 210*205*75mm	210*205*75mm	
Weight 1kg		
Weight 1kg (2) LED Hot Plate	(2) LED Hot Plate	
(2) 222 1100 1 1100	(2) 222 130 1 1110	
1. Heating temperature range: Room	1. Heating temperature range: Room	
temp 550°C, increment 5°C	temp up to 550°C, increment 5°C	
2. Control accuracy of work plate: ±10°C	2. Control accuracy of work plate: ±10°C	
3. Safety temperature: 580°C	3. Safety temperature: 580°C	
4. Temperature display: LED	4. Temperature display: LED	
5. Temperature display accuracy: ±1°C	5. Temperature display accuracy: ±1°C	

6. External temperature sensor $PT1000(\pm 0.5^{\circ}C)$

Description

- •LED screen shows temperature
- •Max. temperature up to 550°C
- •Separate safety circuits with fixed safety temperature of 580°C
- •External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at ± 0.5 °C
- •Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- •The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off.

Specifications

Model HPT-550

Work plate dimension [WxD] 184x184mm

(7 inch)

Work plate material Glass ceramic

Heating position 1

Heating temperature range Room temp.

-550°C, increment 5°C

Control accuracy of work plate ±10°C

Safety temperature 580°C

Temperature display LED

Temperature display accuracy ±1°C

External temperature sensor

 $PT1000(\pm 0.5^{\circ}C)$

Heating warning 50°C

Protection class IP21

Power 1010W

Voltage Frequency 100-120/200-240V,

50/60Hz

Heating Power 1000W

Dimension [WxDxH] 215x360x112mm

Weight 4.5kg

Permissible ambient temperature

and humidity 5-40°C, 80%RH

(3) Light meter, laboratory – grade **PPFD**

Authoraging 5 steps and conversion to μmole/m²/s (PPFD: Photosynthetic Photon Flux Density).

6. External temperature sensor $PT1000(\pm 0.5^{\circ}C)$

Description

- •LED screen shows temperature
- •Max. temperature up to 550°C
- •Separate safety circuits with fixed safety temperature of 580°C
- •External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at ± 0.5 °C
- •Glass ceramic work plate provides excellent chemical-resistant performance and most efficient heat transfer
- •The "HOT" warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off.

Specifications

Work plate area at least 50 inch ²

Work plate material Glass ceramic

Heating position 1

Heating temperature range Room temp.

-up to 550°C, increment 5°C

Control accuracy of work plate ±10°C

Safety temperature 580°C

Temperature display LED

Temperature display accuracy ±1°C

External temperature sensor

PT1000(±0.5°C)

Heating warning 50°C

Protection class IP21

Power 1010W to 1050W

Voltage Frequency 220 – 240V

Heating Power 1000W

Permissible ambient temperature and humidity 5-40°C, 80%RH

(3) Light meter, laboratory – grade **PPFD**

Authoraging 5 steps and conversion to umole/m²/s (PPFD: Photosynthetic Photon Flux Density).

Integral illuminance measurement and Integral illuminance measurement and conversion to mole/m²/d (Daily light conversion to mole/m²/d (Daily light integral). integral). Luminous intensity measurement. Luminous intensity measurement. Point - average function. Point - average function. Spectral correction factor function. (include Spectral correction factor function. (include LED) LED) Time-hold function. Time-hold function. Dual Display, 4 digit LCD reading. Dual Display, 4 digit LCD reading. Spectral Sensitivity close to CIE photopic Spectral Sensitivity close to CIE photopic Curve. Curve. Accurate and Instant response. Accurate and Instant response. Data Hold function. Data Hold function. Data memory and read function. Data memory and read function. Reference value stored for relative or Reference value stored for relative or percentage deviation measurement. percentage deviation measurement. Ripple measurement for STRAY + LIGHT Ripple measurement for STRAY + LIGHT function. function. Comparator function. Comparator function. Auto power off function. Auto power off function. Backlight display function. Backlight display function. Auto datalogging & USB interface. Auto datalogging & USB interface. (4) Portable DO Meter (4) Portable DO Meter Specifications Specifications O2 Range 0.0 to 19.9 mg/l O2 Range 0.0 to 19.9 mg/l O2 resolution 0.1 mg/l O2 resolution 0.1 mg/l O2 Accuracy ±1.5% Full Scale O2 Accuracy ±1.5% Full Scale Calibration manual on 2 points (zero and Calibration manual on 2 points (zero and slope) slope) Temperature Compensation automatic, Temperature Compensation automatic, from 0 to 30°C from 0 to 30°C Probe MA840 (included) Probe (included) Environment 0 to 50°C / 32 to 122°F; Environment 0 to 50°C / 32 to 122°F;

max RH 95%

max RH 95%

Battery Type 1 x 9V alkaline (included)

Battery Life approx. 70 hours of continuous use Dimensions 145 x 80 x 40 mm Weight 220 g (with battery) (5) Portable pH Meter 5-inch LCD display screen. · Support for USB communication.

- · IP65 waterproof.
- · 1-5 points calibration with Standard Recognition.

Description

- · 5-inch LCD display screen.
- · Multi-reading feature allows auto-read, timed-read and continuous-read.
- · Automatic/Manual temperature compensation ensures accurate results.
- · Auto-hold feature senses and locks the measurement endpoint.
- · Data capacity of up to 500 sets for each parameter (GLP-compliant).
- · Support for USB communication.
- · Auto-power off feature effectively extends the battery service life.
- · Reset feature automatically resumes all settings back to factory default options.
- · IP65 waterproof.
- · 1-5 points calibration with standard recognition.
- · Selectable pH buffer groups, including NIST, DIN, GB.
- · Automatic electrode diagnosis with pH slope and offset display.

Specifications Model PH-P310F Parameters pH/Temp.(mV)

pН

Range -2.00 to 20.00pH Resolution 0.1, 0.01 pH Accuracy ±0.01 pH Calibration Points Up to 5 Standard Customization Yes Standard

Battery Type 1 x 9V alkaline or triple A (included)

Dimensions at least 145 x 80 x 40 mm

(5) Portable pH Meter

At least 5-inch LCD display screen.

- · Support for USB communication.
- · At least IP65 waterproof.
- · 1-5 points calibration with Standard Recognition.

Description

- · At least 5-inch LCD display screen.
- · Multi-reading feature allows auto-read, timed-read and continuous-read.
- · Automatic/Manual temperature compensation ensures accurate results.
- · Auto-hold feature senses and locks the measurement endpoint.
- · Data capacity of up to 500 sets for each parameter (GLP-compliant).
- · Support for USB communication.
- · Auto-power off feature effectively extends the battery service life.
- · Reset feature automatically resumes all settings back to factory default options.
- · 1-5 points calibration with standard recognition.
- · Selectable pH buffer groups, including NIST, DIN, GB.
- · Automatic electrode diagnosis with pH slope and offset display.

Specifications

Parameters pH/Temp.(mV)

pН

Range -2.00 to 20.00pH Resolution 0.1, 0.01 pH Accuracy ±0.01 pH Calibration Points Up to 5 Standard Customization Yes Standard

Recognition NIST, GB and DIN buffers Recognition NIST, GB and DIN buffers **Slope Limit Yes** mVmVRange -2000.0-to 2000.0 mV Range - 0 to 2000.0 mV Resolution 0.1 Resolution 0.1 Accuracy ± 0.3 mV or $\pm 0.1\%$ Accuracy ± 0.3 mV or $\pm 0.1\%$ Temperature Range -5 to 110 eC, 23 to Temperature Range -5 to 110 °C, 23 to $230^{\,\bar{0}}\,\mathrm{F}$ 230 oF Unit ⁰C, ⁰F Unit oC, oF Resolution 0.1 Resolution 0.1 Relative Accuracy ±0.2 Relative Accuracy ±0.2 Measurement Measurement Reading Mode Auto Read (Fast, Reading Mode Auto Read (Fast, Medium, Slow), Timed, Medium, Slow), Timed, Continuous Continuous Reading Prompts Reading, Stable, Reading Prompts Reading, Stable, Locked Locked Temp. Temp. Compensation ATC, MTC Compensation ATC, MTC Data Data management management Data Storage 500 results each Data Storage 500 results each **GLP Features Yes** Inputs Inputs pH Electrode BNC(Q9) pH Electrode BNC Temp. Probe 4-pin aviation connector Temp. Probe 4-pin aviation connector Outputs USB PC, printer Outputs USB PC, printer Display options Display options **Backlight Yes** Auto Shutdown 300, 600, 1200, 1800, 3600 sec., off IP Rating IP65 IP Rating at least IP65 Date and Time Yes Date and Time feature available General Electricity Rechargeable Lithium battery, Electricity Rechargeable Lithium battery,

with AC Adapter,

AC Adapter,

100-240V AC input, DC5V output	100-240V AC input, DC5V output	
Dimensions 80× 255×35 mm	Dimensions at least 80×250×30 mm	
Weight 400g	80×250×30 mm	
(6) Stereo Microscope	(6) Stereo Microscope	
1. Binocular head, 45° inclined	1. Binocular head, 45° inclined	
2. Fluorescent lamp, LED ring light , for more option	2. Fluorescent lamp, LED ring light	
Specifications	Specifications	
Magnification 20X-40X, 10X-80X with optional eyepieces and objectives	Magnification 20X-40X, 10X-80X	
Eyepiece WF10X/20mm;*Optional Eyepiece:10X/20mm,15X/15mm,	Eyepiece WF10X/20mm Eyepiece: 20X/10mm	
20X/10mm		
Main Body Binocular head, 45° inclined, 360° rotatable, Interpupillary Distance	Main Body Binocular head, 45° inclined, 360° rotatable, Interpupillary Distance	
adjustment:54-76mm; Diopter adjustment:±5 diopters		
Objective Shifting and doubling objective combination 2X/4X, 1X/2X		
	Focusing mount with vertical working distance 50mm	
Stand Pole stand, for more options	Adjustable stand pole or column	
*Illumination Fluorescent lamp , LED ring light , for more option	*Illumination LED light, incident light and transmitted light	
(7) Water Bath	(7) Water Bath	
Temperature Range (°C): RT+5~100; RT+5~95	Temperature Range (°C): RT+5~100	
2. Temperature Fluctuation (°C): ±0.5	Temperature Fluctuation (°C): ±0.5	
3. Temperature Uniformity(°C): ±0.5	Temperature Uniformity(°C): ±0.5	
Feature:	Feature:	
 Microprocessor control with timing and temperature correction function. The shell is made of high-quality steel plate, surface coated. 	 Microprocessor control with timing and temperature correction function. The shell is made of high-quality steel plate, surface coated. 	

- 3. The chamber, frame and top cover are made of stainless steel.
- 4. Between the inner and outer space, are filled with high-quality insulation materials, anti-corrosive, and good appearance.
- 5. LCD display

Specifications
Temperature Range (°C) RT+5-100
Temperature Fluctuation (°C) ± 0.5 Temperature Uniformity(°C) ± 0.5 Power Supply 220V/50Hz
Power Rating(W) $\frac{2000}{10\%}$

Chamber Size (W×D×H)cm 50×30×20 Volume(L) 30 Package Size (W×D×H)cm 87×47×47 Net/Gross Weight(kg) 12.5/22

- 3. The chamber, frame and top cover are made of stainless steel.
- 4. Between the inner and outer space, are filled with high-quality insulation materials, anti-corrosive, and good appearance.
- 5. LCD display

Specifications

Power Supply 220V /50Hz Power Rating(W) at least 1500±10%

Volume Capacity (L) at least 30

(8) Water Quality Testers

Professional TDS test, EC test, temperature test and pH test; 4 in 1 water quality test kit. pH meter resolution is 0.01 pH measurement range is 0.-14 pH. TDS meter ranges from 0-9990 ppm, conductivity ranges from 0-9990 us/cm, EC ranges from 0-9990 us/cm. working temperature of pH meter 0-60C. Display: LCD display

(8) Water Quality Testers

Professional TDS test, EC test, temperature test and pH test; 4 in 1 water quality test kit. pH meter resolution is 0.01 pH measurement range is 0.-14 pH. TDS meter ranges from 0-9990 ppm, conductivity ranges from 0-9990 us/cm, EC ranges from 0-9990 us/cm. working temperature of pH meter 0-60C. Display: LCD display

(9) Hotplate with stirrer

Controls (Digital/Analog) Analog
Min Speed (RPM) 150
Max Speed (RPM) 1500
Min Temp Range (°C) 50
Max Temp Range (°C) 450
5 - 10 L stir capacity
Features:

Stir from 100 to 1500 rpm on each stirring position with individual controls

Plate size: 6" (15.24 cm) x 6" (15.24 cm)

Solid ceramic heater surface for excellent chemical resistance

(9) Hotplate with stirrer

Controls (Digital/Analog) Analog
Min Speed (RPM) 150
Max Speed (RPM) 1500
Min Temp Range (°C) 50
Max Temp Range (°C) 450
5 - 10 L stir capacity

Features:

Stir from 100 to 1500 rpm on each stirring position with individual controls

Plate size: **at least** 6" (15.24 cm) x 6" (15.24 cm)

Solid ceramic heater surface for excellent chemical resistance

Corrosion resistant models for		
aggressive chemicals. 12" tops only	Corrosion resistant	
Milled-flat cast aluminum tops for even		
heating in 6" x 6"		
Efficient 400 watt heaters		
Powerful 1400 watt heaters		

All other provision of the bidding documents which are not affected shall remain in effect. For guidance and information of all concerned.

Date Issued: 05 September 2023

SGD
Prof. JOEL M. ADDAWE
BAC Chairperson