



# UNIVERSITY OF THE PHILIPPINES

LOS BANOS

Los Banos, IV-A

VAT Reg. TIN: 000-864-006-00004

## Request for Quotation/ Bid Form (Technical Specifications) CFNR-DFPPS

UPLB BAC SECRETARIAT  
BY: *[Signature]* DATE: 12-05-25  
DEC 09 2025 10am  
UPLB-RQ-12-572-25-RES  
DEADLINE OF SUBMISSION

UPLB-RQ-

DEADLINE OF  
SUBMISSION:

Suppliers Name:

Date

05 December 2025

Fund Code:

N939822

MOP:

Small Value Procurement

Contact No:

09159145935

Contact Person

aP Ronniel D. Manalo

Please quote your lowest price on the item/s listed below, subject to the General Conditions below.

Note:

- Bidders shall provide correct and accurate information required in this form. All entries must be typewritten or in print and properly accomplished. Do not leave blank entries, put N/A for not applicable.
- Price quotation/s to be denominated in Philippine Peso shall include all taxes, duties, and/ or levies payable.
- Bidders must indicate the BRAND and MODEL NUMBER for equipment and its accessories or peripherals. Evidence shall be in the form of manufacturer's un-amended sale literature, unconditional statement of specification and compliance issued by the manufacturer and sample.
- Quotation through fax/email is acceptable. Winning bidder shall submit original signed RQ before issuance of Purchase order (P.O.).
- Quotations exceeding the Approved Budget for Contract shall be rejected.
- Documentary requirements per Memorandum No. 03 Series of 2017 shall be attached upon submission of the quotation
- Others:

| ITEM No. | GENERAL NAME OF THE ITEM | REQUIRED SPECIFICATIONS  | UNIT OF MEASURE | QTY | ESTIMATED UNIT APPROVED BUDGET OF THE CONTRACT | ESTIMATED TOTAL APPROVED BUDGET OF THE CONTRACT | OFFERED SPECIFICATION<br>Suppliers must state here the detailed technical specifications of their offer against each of the individual parameters of each requirements | QUOTED UNIT PRICE | TOTAL QUOTED PRICE | EVALUATION<br>(Leave this space blank. For BAC/Evaluators only) |
|----------|--------------------------|--|-----------------|-----|--|---|--|-------------------|--------------------|---|
| 1        | Contact Angle Goniometer | Supply, delivery and installation;<br>Branded and Brand New;<br>Camera system: CMOS with ≥30fps at 640x480 px;<br>Optical system: fixed focus;<br>Field of view: 6.3x4.7 mm (approx);<br>Measuring methods: contact angle by sessile drop method (static & dynamic); surface/interfacial tension by pendant drop method; surface free energy analysis of solids;<br>Analysis methods: contact angle: θ/2, tangent, curve fitting (ellipse, circle) surface/interfacial tension: Young-Laplace, ds/de | unit            | 1   | 570,000.00                                     | 570,000.00                                      |  |                   |                    |   |

|   |                                 |   |      |   |            |            |  |  |  |
|---|---------------------------------|---|------|---|------------|------------|--|--|--|
|   |                                 | <p>surface free energy of solids: Owens-Wendt, Kaelble-Uy, OWRK, Wu, Kitazaki-Hata, acid-base, Zisman, liquids: OWRK, Wu;</p> <p><b>Measuring range:</b> contact angle: 0 to 180°;</p> <p>surface/interfacial tension: 0 to 2000mN/m;</p> <p><b>Resolution:</b> contact angle: at least 0.01°;</p> <p>surface/interfacial tension: 0.01mN/m</p> <p><b>Accuracy:</b> CA.: at least 0.3°;</p> <p>ST/IFT: 0.3mN/m;</p> <p><b>Maximum sample size</b> (W x D x H)/ weight:160x100x10mm/ 300g;</p> <p><b>Stage operation</b> (Z-axis): 10.5 mm (manual);</p> <p>Dispenser operation: Droplet generation-manual; Dispensing resolution- 0.1µL;</p> <p><b>Measuring temperature:</b> Ambient;</p> <p><b>Instrument dimensions</b> (W x D x H): 170x346x283mm (approx);</p> <p><b>Instrument weight:</b> 1.8 kg (approx)</p> <p><b>Power supply:</b> USB bus power;</p> <p><b>Operating environment:</b> Temperature: +10 to +35°C, humidity: 30 to 80%RH (non-condensing); Positioned away from sources of electrical noise and vibration;</p> <p><b>Add-in software:</b> Sessile drop (Static &amp; dynamic); Surface free energy analysis; Energy analysis;Pendant drop;</p> <p>Syringe set 22G (5 each glass syringes, 22G SUS needles, springs and 10 washers); Acrylic plate (for practice); level; Parts bag.</p> <p><b>With Calibration Certificate;</b></p> <p><b>License key and operation manual;</b></p> <p><b>Training of at least 5 pax;</b></p> <p><b>Warranty:</b> at least one year-warranty on parts and services</p> |      |   |            |            |  |  |  |
| 2 | Infrared Thermal Imaging Camera | <p><b>Branded and Brand New;</b></p> <p><b>Infrared resolution:</b> ≥120 x 90 (10,800 pixels);</p> <p><b>IFOV</b> (spatial resolution): 7.6 mRad, D:S 130:1;</p> <p><b>Field of view:</b> 50° H x 38° V;</p> <p><b>Minimum focus distance:</b> 50 cm (20 inches);</p> <p><b>Focus system:</b> Fixed focus;</p> <p><b>Data transfer:</b> Mini USB used to transfer image to PC;</p> <p><b>Wireless connectivity:</b> Yes, [802.11 b/g/n (2.4 GHz)];</p> <p><b>Image quality-Level and span:</b> Smooth auto and manual scaling;</p> <p><b>IR-Fusion technology:</b> AutoBlend continuous 0 % to 100 %. Adds the context of the visible details to your infrared image;</p> <p><b>Display:</b> 3.5" LCD touchscreen (landscape)</p> <p><b>Display resolution:</b> 320 x 240 pixels LCD (at least);</p> <p><b>Thermal sensitivity</b> (NETD): 60 mK;</p> <p><b>Frame rate:</b> 9 Hz;</p> <p><b>Memory:</b> Internal 4GB memory (includes slot for optional micro SD card up to 32GB);</p>  | unit | 1 | 200,000.00 | 200,000.00 |  |  |  |



**Image capture, review, save mechanism:** One-handed image capture, review, and save capability;

**Image file formats:** Non-radiometric (jpeg), or fully radiometric (.is2); no analysis software required for non-radiometric (jpeg) files;

**Software:** full analysis and reporting software;

**Export file formats with software:** .bmp, .dib, .jpg, .tif, .tiff;

**Batteries** (field-replaceable, rechargeable): Lithium ion smart battery pack with five-segment LED display to show charge level;

**Battery life:**  $\geq 5$  hours continuous (without WiFi);

**Battery charging time:** 2.5 hours to full charge;

**Battery charging system:** 2.5 hours to full charge;

**AC operation:** AC operation with included power supply (100 V AC to 240 V AC, 50/60 Hz);

**Power saving:** Automatic Shutdown: 5, 10, 15 and 20 minutes or never;

#### **Temperature measurement range**

(not calibrated below 0 °C): -20 °C to 400°C (-4°F to 752 °F);

**Accuracy:** Target temp at or over 0 °C: Accuracy:  $\pm 2$  °C or  $\pm 2$  % at 25 °C; whichever is the greater;

**On-screen emissivity correction:** Yes, material table;

**On-screen reflected background temperature:** Yes;

**Center-point temperature compensation:** Yes

**Spot temperature:** Hot and cold spot markers;

**Standard palettes:** 6: Ironbow, Blue-Red, High Contrast, Amber, Hot Metal, Grayscale;

**Infrared spectral band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$  (long wave);

**Operating temperature:** -10 °C to 50 °C (14 °F to 122 °F);

**Storage temperature:** -40 °C to 70 °C (-40 °F to 158 °F);

**Relative humidity:** 95 % non-condensing;

**Safety:** IEC 61010-1: Pollution Degree 2 or equivalent;

**Electromagnetic compatibility:** EN 61326-1, CISPR 11: Group 1, Class A; US FCC: CFR, Part 15C;

**Vibration and shock:** 10 Hz to 150 Hz, 0.15 mm, IEC 60068-2-6; 30 g, 11 ms, IEC 60068-2-27;

**Drop:** Engineered to withstand 2 meter drop;

**Size** (H x W x L): at least 26.7 cm x 10.1 cm x 14.5 cm (10.5 in x 4.0 in x 5.7 in);

**Weight:** at least 0.72 kg (1.6 lb);

**Enclosure rating:** IP54 (protected against dust, limited ingress; protection against water spray from all directions);

**Unit is pre-calibrated and comes with calibration sticker and certificate (ISO 17025)**

**Warranty:** at least 1 year on parts and services

|               |           |   |      |   |            |            |                               |  |  |  |
|---------------|-----------|---|------|---|------------|------------|-------------------------------|--|--|--|
| 3             | Sonicator | <b>Branded and Brand New;</b><br><b>Material:</b> Stainless Steel<br><b>Display:</b> digital<br><b>Frequency:</b> 40 kHz (at least);<br><b>Tank capacity:</b> 6.5 L (at least);<br><b>Ultrasonic Power:</b> 180W, 3 transducers;<br><b>Heating Power:</b> 200W;<br><b>Heat Temperature:</b> ambient to 80°C (increment of 1°C);<br><br><b>Timer:</b> 1-30 min (increment of 1 sec);<br><b>Tank Size (LxWxH):</b> 300 x 150 x 15- mm (at least);<br><b>Unit Size (LxWxH):</b> 325 x 180 x 280 mm (at least);<br><b>Weight:</b> 7 lbs or 3.2 kg (approx.);<br><b>Power Supply:</b> AC 200 ~ 240V, 50 Hz<br><b>With drain; lid and stainless steel basket</b><br><b>Warranty:</b> at least two year-warranty on parts and services | unit | 1 | 100,000.00 | 100,000.00 |                               |  |  |  |
|               |           |   |      |   | TOTAL ABC  | 870,000.00 |                               |  |  |  |
| FOR LOT AWARD |           |   |      |   |            |            | TOTAL QUOTED AMOUNT IN WORDS: |  |  |  |

Reviewed and Checked By:

  
Jace C. Villanueva  
BAC TWG

Please quote at your government price (including VAT) and state that the time within which you can make delivery. It will be appreciated if we can have your quotation in the office as soon as possible on or before the deadline stated herein.

  
RONNIEL D. MANALO  
BUYER/ END-USER

#### TERMS AND CONDITIONS:

- Price quotation/s shall be valid for a period of at least (30) calendar days from the date of submission.
- In order to assure that manufacturing defects shall be corrected by supplier, a warranty security shall be required from the contract awardee for a minimum period of **three (3) months**, in the case of EXPENDABLE SUPPLIES, or a **minimum of one (1) year warranty and two (2) to three (3) years extended warranty (if applicable)** in the case of NON-EXPENDABLE SUPPLIES after acceptance by End-user of the delivered supplies.
- Delivery period within ~~90 to 120~~ 20 calendar days.
- Award of contract shall be made to the lowest quotation which complies with the technical specifications, and other terms and condition stated herein
- UPLB reserves the right to reject any or all offers as may be considered most advantageous to the University.
- Any interlineations, erasure, or overwriting shall be valid only if they are signed or initiated by you or any of your duly authorized representative/s.

#### Requirements for Suppliers (GPPB Resolution No. 21-2017)

| REQUIREMENTS   | Shopping<br>(Section 52) | Negotiated<br>Procurement-<br>Small Value<br>Procurement<br>(Section 53.9) | Negotiated<br>Procurement- Lease<br>of Real Property or<br>Venue (Section<br>53.10) | Negotiated Procurement- Scientific,<br>Scholarly or Artistic Work, Exclusive<br>Technology and Media Services<br>(Section 53.6) | Negotiated<br>Procurement-<br>Emergency<br>(Section 53.2) |
|--|--------------------------|--|---|---|---|
| 1 Mayor's/Business Permit  | /                        | /  | /   | /   | /   |
| 2 PhilGEPS Registration Number   | /                        | /  | /   | /   | /   |
| 3 Professional license/ CV (consulting services)                           | /                        | /  | /   | /   | /   |
| 4 PCAB License (for Infrastructure)  | /                        | /  | /   | /   | /   |
| 5 Income / Business tax returns (except for government agencies as lessor) | /                        | FOR ABC'S ABOVE<br>500K  | /   | /   | FOR ABC'S<br>ABOVE 50K                                    |
| 6 Omnibus Sworn Statement  | /                        | FOR ABC'S ABOVE<br>50K   | /   | /   | FOR ABC'S<br>ABOVE 500K                                   |
| 7 NFCC for Infrastructure with ABC above Ph500k                            | /                        | /  | /   | /   | FOR ABC'S<br>ABOVE 50K                                    |

After having carefully read and accepted your General Conditions, I/We quote you on the Item at prices noted above.

Name of the Company:

Address:

Signature over Printed

Name of Representative:

Position:

Tel. No. :

Fax No. :

Email Address:

Date: