



Republic of the Philippines  
**NUEVA ECIIJA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
Cabanatuan City  
044-463-0226  
[www.neust.edu.ph](http://www.neust.edu.ph)

## INVITATION TO BID

The Nueva Ecija University of Science and Technology (NEUST) through its Bids and Awards Committee (BAC), invites entities to bid for the hereunder projects:

**Name of Project: SUPPLY AND DELIVERY OF BIOLOGY LAB EQUIPMENT**

Location: College of Arts and Sciences, NEUST, Gen. Tinio (St.) Cabanatuan City

Approved Budget for the Contract (ABC): Php3,000,000.00

Contract Duration: 60 Calendar Days

Fund Source: GAA

Bid Documents: Php5,000.00

Description: 1 Lot - BIOLOGY LAB EQUIPMENT

**1 Unit – Double-Beam UV-VIS Spectrophotometer with I5 Desktop PC**

Specification:

- Double-beam optical system.
- The Main unit and PC software can independently implement functions of Quantitative; · Kinetics; Wavelength Scan; Multi Wavelength; DNA/Protein and Data Printing, PC software can complete the function of data processing.
- Suspended posture optical system design, strengthen and thicken the bottom plate to eliminate the vibration or transformation's impact on the optical system.
- 24-bit high speed and high precision A/D conversion, and improve the sensitivity of the instrument.
- Optical system based on optical system, based on top structure design, top technological requirements and top raw materials.
- Desktop computer i5 processor, motherboard, 8GB memory, 1TB hardisk, 23-25 inches led monitor, casing with power supply, keyboard and mouse, avr and PC software.
- Wavelength: Range 190-1100nm
- Bandwidth: 1.8nm
- Wavelength Accuracy:  $\pm 0.1\text{nm}$  (D2 656.1NM),  $\pm 0.3\text{nm}$
- Wavelength Reproducibility:  $\leq 0.1\text{nm}$
- Photometric Accuracy:  $\pm 0.2\%T$
- Photometric Repeatability:  $\leq 0.15\%T$
- Straylight:  $\leq 0.03\%T$
- Stability:  $\pm 0.0004A/h(500\text{nm})$
- Noise:  $\pm 0.0001A$
- Baseline Flatness:  $\pm 0.0005A$
- Photometric Range: 0-200%T, -4.0--4.0A, 0-9999C
- Wavelength setting mode: Automatic
- Output: USB Port
- Printer port: Parallel
- Port Display: LCD (320\*240)
- Light Source: Deuterium & Tungsten Halogen Lamp
- Detector: Silicon Photodiode
- Power: AC 220V/50Hz or 110V/63Hz
- Dimension: 625\*430\*210mm
- Weight: 28Kg
- Scanning speed: High, Middle, Low, Optional

**1 Unit - Analytical Balance**

- Capacity: 220 g
- Minimum Display: 0.1 mg
- Repeatability (Standard Deviation): ≤0.1 mg
- Linearity: ±0.2 mg
- Stabilization Time\*1: Approx. 3.0 seconds
- Operating Temp. and Humidity Limits: 5-40°C 20-85%\*2 Temp.
- Coefficient for Sensitivity: (10-30°C) ±2ppm/°C
- Pan Size (mm) approx. Φ91
- Main Body Dimensions (mm): approx. 213(W) x 356(D) x 338(H)
- Main Body Weight (kg) approx. 6.2
- Power requirement: 12V, 1A
- Internal Calibration: ✓

### 1 Unit - Laminar flow with UV lamp

Horizontal air stream producing clean air in compliance with ISO5/ CLASS100 or ISO4/Class10 standards (depending on the filter installed).

- Massive epoxy coated, oven-tempered metal structure assures stability, preventing movement during sensitive operations.
- Work surface made of 304 stainless steel
- Side windows made of tempered glass
- High efficiency quiet EC fan
- With stand & Universal electrical outlet
- Innovative, advanced design
- Variety of sizes and materials
- Eco-friendly, cost-effective LED lighting
- Compliance with Test Standard: ISO-14644-1 / CE
- Outer Dimension W x D x H 1200 x 890 x 1250 47.2 x 35 x 49.2
- Workspace W x D x H 1070 x 610 x 640 mm 47.1 x 24 x 25.2
- Test Standard CE / ISO 14644-1
- Air Velocity m/s 0.3 m/s, 60 FPM
- Cleanliness within Workstation Class-100 (FS 209E) ISO 4, ISO-14644-1H
- Hood Material High Grade cold rolled steel and surface is static powder coated Work
- Table Material Stainless Steel SUS 304
- Noise <50dB
- Power supply 110/220v, 50/60hz, single phase
- Illumination: 800LUX led lighting
- Filter: HEPA Filter Efficiency of 99,9995% at 0.3 Microns H14

### 1 Unit - Thermal Cycler with PCR

- High-performance long-life Peltier and independent control circuits for different heating segments implement accurate temperature;
- Auxiliary heating mechanism diminishes the “edge effect” and enhance the temperature uniformity
- Wide touchdown PCR temperature range (-9.9°C~+9.9°C) and Long PCR time range (-9min59s~+9min59s)
- Gradient temperature setting supported, saving time and high efficiency.
- Running process can be controlled at will view the saved program in the operation, click the “Status” button to enter the running interface.
- User friendly interface on 7inch color touch screen enable you edit the program very simple. All parameters are very visible for choice. The PCR touch screen pen improves the operation experience and reduces the cross-contamination risk.
- It can be adapted to multi-brand common PCR tubes, 8-well PCR strips and 96-well PCR plates.
- File customization, multi-file storage, Power-off protection function, automatic program recovery, Hot lid auto-off function: if the module temperature is lower than 30°C, the hot lid function will automatically turn off.
- Sample Capacity : 96X0.2mL PCR tube, 8X12 PCR plate or 96 well
- Heating Temperature Range : 4~105°C
- Lid Temperature Range : 30~110°C

- Temperature Display Accuracy :  $\pm 0.1^{\circ}\text{C}$
- Temp Control Accuracy [ $55^{\circ}\text{C}$ ] :  $\pm 0.3^{\circ}\text{C}$
- Temperature uniformity [ $55^{\circ}\text{C}$ ]
- Max. Heating/Cooling Rate :  $5^{\circ}\text{C}/\text{Sec}$
- Gradient Temp Setting Range :  $30\sim 99^{\circ}\text{C}$
- Gradient Range :  $1\sim 42^{\circ}\text{C}$
- Adapter block material : aluminum
- Display : 7" LCD 800x480
- Input : Touch panel
- User defined file system : 30 segments 99 cycle max., 16 folder and 16 files
- Power off protection : yes
- Power Supply :  $100\sim 120\text{V}/200\sim 240\text{V}$ , 50/60Hz
- Dimension [WxDxH] : 280x370x250 mm

### 1 Unit – Eyewash with shower

- Adopting 304 stainless steel which is strong and structure tough
- Suitable for installing on floor and easy to install
- Convenient opening through handle & pusher
- The surface can be polished or epoxy resin
- Material : 304 SS
- Weight : 15 kg
- Maximum working pressure : 7 bar/100 psi
- Minimum working pressure : 2.0 bar / 29.4 psi

### 3 Units – Compound Microscope

Microscope adopts LED illumination, which save energy and have long working life; it is also very comfortable for observation. This microscope is widely used in educational, academic, agricultural and study field. With a microscope adaptor, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube.

- New machining facility and advanced alignment technology;
- Comfortable operation with updated and ergonomic design;
- LED light illumination, save energy and long working life;
- Compact and flexible, ideally suited for desktop, laboratory worktable;
- Eyepoint height and interpupillary distance can be adjusted to fit for observation.
- Viewing Head : Seidentopf Binocular Head, Inclined at  $30^{\circ}$ ,  $360^{\circ}$  Rotatable, Interpupillary Distance 48-75mm, Eyepiece : WF10x/18
- Objective : Achromatic Objective 4x, 10x, 40x, 100x (Oil)
- Nosepiece : Backward Quadruple Nosepiece
- Stage : Double Layer Mechanical Stage 132x142mm/ 75x40mm
- Focusing : Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm
- Condenser : Abbe NA 1.20 with Iris Diaphragm and Filter
- Illumination : LED 3W, Brightness Adjustable
- Dimension & G.W. 39.5cm\*26.5cm\*50cm, 7kg

### 1 Unit – Electrophoresis kit

- Electrophoresis tank is directly connected to the included smart power supply
- Very compact design delivered with multiple accessories.
- Heat resistant material
- Timer function for an automatic stop of your electrophoresis
- Stable electrical field guaranties straight lanes
- Gel casting set included
- Safety interlock System
- Multichannel pipette compatible

- Advanced DNA separation systems. It has a separated power supply, a simple buffer drainage system, support for multi-channel pipettes, and seven output voltage settings (18, 25, 35, 50, 70, 100 and 135 V) as well as a timer function for delivering the perfect run every time.

#### Electrophoresis Tank

- Overall Dimensions 183 mm (B) x 59 mm (H) x 162 mm (L)
- Material PPHOX (Polyphenylenoxid)
- Buffer Solution Volume Approx. 270 – 320 ml
- Multi-sample Multichannel pipette compatible

#### Safety Lid

- Overall Dimensions 197 mm (B) x 38 mm (H) x 170 mm (L)
- Safety Interlock System: Without the lid, main power cannot be operated

#### Power Supply

- Overall Dimensions 75 mm (B) x 62 mm (H) x 170 mm (L)
- Weight 410 g
- Input Voltage AC100-240V (Internationally compatible, 50/60 Hz)
- Output Voltage 18 V, 25 V, 35 V, 50 V, 70 V, 100 V and 135 V.
- Timer Can be set between 0 and 99 min. and cont. mode. Temporary shutdown supported
- Memory function Automatic memory (the last used V & T)

#### One-Gel Tray

- Overall dimensions small tray 130 mm (B) x 16,5 mm (H) x 59,5 mm (L)
- Overall dimensions large tray 130 mm (B) x 24 mm (H) x 122 mm (L) Quantity 2 small gel trays and 1 large gel tray Combs Number of wells 13 or 26
- Distances 13 wells: 9 mm 26 wells: 4.5 mm
- Number of combs 4, can be used on both sides (all combs can be used for 13 or 26 pockets)
- Material Heat resistant (up to 100 ° C hot solution can be used)

#### Warranty, Terms and Conditions:

- 2-years product warranty
- 5 years availability of spare parts

#### Bidders must submit the following:

- Technical specifications details or Technical data indicating the brand name and model of item/s as additional technical requirements
- After sales training at Nueva Ecija University of Science and technology after completion of deliver.

The schedule of the bidding activities are as follows:

Activities	Schedule
1. Advertisement/Receipt of Letter of Intent	April 10, 2021 – April 17, 2021
2. Pre-bid Conference	April 19, 2021 9:00 AM NEUST President's Office Conference Room, Sumacab Campus, Cabanatuan City
3. Submission of Bids	May 03, 2021 UNTIL - 9:30 AM NEUST President's Office Conference Room, Sumacab Campus, Cabanatuan City
4. Opening of Bids	May 03, 2021 – 10:00 AM NEUST President's Office Conference Room, Sumacab Campus, Cabanatuan City
5. Post Qualification	May 04, 2021 - 1:00 PM NEUST President's Office Conference Room, Sumacab Campus, Cabanatuan City

All particulars to the Eligibility Statement and Screening, Bid Security, Performance Security, Pre-bidding Conference, Evaluation of Bids, Post Qualification and Award of Contract shall be governed by the pertinent provisions of R.A. 9184 and its Implementing Rules and Regulations.

Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

A complete set of Bidding Documents may be acquired by interested Bidders from April 19, 2021 to May 03, 2021 until 9:00 AM upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

Bids must be duly received by the BAC Secretariat at the address below on or before May 03 2021, 9:30 AM. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the PBD. Late bids shall not be accepted.

Bid opening shall be on May 03, 2021 at 10:00 AM at NEUST Conference Room, Sumacab Campus, Cabanatuan City. Bids will be opened in the presence of the bidders’ representatives who choose to attend.

The Nueva Ecija University of Science and Technology reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For more information concerning this bidding, please contact the following:

MS. MICHELLE A. SUPEÑA  
Bids and Awards Committee Secretariat  
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Approved by:

**DR. HONORATO P. PANAHON**  
BAC Chairperson