

Republic of the Philippines NUEVA ECIJA UNIVERSITY OF SCIENCE AND TECHNOLOGY Cabanatuan City 044-463-0226 www.neust.edu.ph

INVITATION TO BID

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

Name of Project: **REPLACEMENT OF INDUSTRIAL AUTOMATION AND MECHATRONICS COMPONENT**

Location: College of Industrial Technology – NEUST, Cabanatuan City Approved Budget for the Contract (ABC): Php 5,333,012,08 Contract Duration:120 Calendar Days Fund Source: Income Bid Documents: Php 10,000.00

ITEM DESCRIPTION/SPECIFICATION:

1. 1 unit of 3/2-way valve with pushbutton actuator

| Feature | Data/description |
|------------------------------------|---|
| Medium | Compressed air, filtered (lubricated or unlubricated) |
| | (or vacuum; port 1) |
| Design | Poppet valve, directly actuated on one side, with return spring |
| Actuation | Pushbutton |
| Pressure range | -90 – 800 KPa (-0.90 – 8 bar) |
| Standard nominal flow rate 12 | 60 l/min |
| Actuating force at 600 kPa (6 bar) | 6 N |
| Connection | fittings for plastic tubing, 4mm |

2. 3 units of 5/2-way valve with selector switch

| Feature | Data/description |
|------------------------------------|---|
| Medium | Compressed air, filtered (lubricated or unlubricated) |
| Design | Poppet valve, directly actuated on one side, with return spring |
| Actuation | Selector switch |
| Pressure range | -90 – 800 kPa (-0.90 – 8 bar) |
| Standard nominal flow rate 12 | 60 l/min |
| Actuating force at 600 kPa (6 bar) | 6 N |
| Connection | fittings for plastic tubing, 4mm |

3. 1 unit of 3/2-way valve with selector switch

| Feature | Data/description |
|------------------------------------|---|
| Medium | Compressed air, filtered (lubricated or unlubricated) |
| Design | Poppet valve, directly actuated on one side, with return spring |
| Actuation | Selector switch |
| Pressure range | -90 – 800 kPa (-0.90 – 8 bar) |
| Standard nominal flow rate 12 | 60 l/min |
| Actuating force at 600 KPa (6 bar) | 6 N |
| Connection | fittings for plastic tubing, 4mm |

4. 8 units of Proximity switch, pneumatic, with cylinder attachment

| Feature | Data/description |
|------------------------------------|---|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Pneumatic signal generator for contactless position indication by |
| | means of magnetic field |
| Display | Visual position indication |
| Temperature range | -15 – +60 °C to DIN 40040 |
| Pressure range | 200 to 800 KPa (2 to 8 bar) |
| Standard nominal flow rate | 60 l/min |
| Reproducibility of switching value | ±0, 1 mm |
| Response time on: | 22 ms |
| | Off: 52 ms |
| Connection | fittings for plastic tubing, 4mm |

5. 3 units of 3/2-way pneumatic valve, pneumatically actuated, one side

| Feature | Data/description |
|-----------------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Spool valve, indirectly actuated on one side, with return spring |
| Pressure range | 200 to 1000 kPa (2 to 10 bar) |
| Operating pressure range | -90 to 1000 kPa (-0.9 to 10 bar) |
| Standard nominal flow rate 12 | 500 l/min |
| Switching time at 600 kPa (6 bar) | on: 8 ms |
| | Off: 18 ms |
| Connection | fittings for plastic tubing, 4mm |

6. 2 units of 5/2-way valve, pneumatically actuated, one side

| Feature | Data/description |
|-----------------------------------|---|
| Medium | Compressed air, filtered (unlubricated) 40 μ m, free of contamination |
| Design | Spool valve, indirectly actuated on one side, with return spring |
| Control pressure range | 300 to 1000 kPa (3 to 10 bar) |
| Operating pressure range | -90 to 1000 kPa (-0.9 to 10 bar) |
| Standard nominal flow rate 12 | 500 l/min |
| Switching time at 600 kPa (6 bar) | on: 8 ms |
| | Off: 18 ms |
| Connection | fittings for plastic tubing, 4mm |

7. 5 units of 5/2-way double pilot valve, pneumatically actuated, both sides

| Feature | Data/description |
|----------------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Spool valve, indirectly actuated on one side, with return spring |
| Control pressure range | 300 to 1000 kPa (3 to 10 bar) |
| Operating pressure range | -90 to 1000 kPa (-0.9 to 10 bar) |
| Standard nominal flow rate 12 | 500 l/min |
| Response time at 600 KPa (6 bar) | 6 ms |
| Connection | fittings for plastic tubing, 4mm |

8. 2 units of Shuttle valve

| Feature | Data/description |
|------------------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | OR-Gate (Shuttle valve) |
| Pressure range | 100 to 1000 KPa (1 to 10 bar) |
| Connection | fittings for plastic tubing, 4mm |
| Standard nominal flow rate 1, 1/32 | 500 1/min |

9. 1 unit of Dual-pressure valve (AND)

| Feature | Data/description |
|------------------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Design AND-Gate (Dual-pressure valve) |
| Pressure range | 100 to 1000 kPa (1 to 10 bar) |
| Connection | fittings for plastic tubing, 4mm |
| Standard nominal flow rate 1, 1/32 | 550 l/min |

10. 2 units of Quick exhaust valve

| Feature | Data/description |
|-------------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Poppet valve |
| Pressure range | 50 to 1000 kPa (0.5 to 10 bar) |
| Standard nominal flow rate 12 | 300 l/min |
| | 550 l/min |
| Connection | fittings for plastic tubing, 4mm |

11. 20 units of One-way flow control valve

| Feature | Data/description |
|----------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | One-way flow control valve |
| Pressure range | 20 to 1000 kPa (0.2 to 10 bar) |
| Standard nominal flow rate | in throttled direction: $0 - 85$ l/min |
| | Free flow direction: $100 - 110 $ l/min |
| Connection | fittings for plastic tubing, 4mm |

12. 12 units of Single-acting cylinder

| Feature | Data/description |
|---------------------------|---|
| Medium | Compressed air, filtered (unlubricated) 40 μ m, free of |
| | contamination |
| Design | Piston cylinder |
| Operating pressure max. | 1000 kPa (10 bar) |
| Piston diameter | 8 mm |
| Max. Stroke length | 50 mm |
| Thrust at 600 kPa (6 bar) | 139 N |
| Spring return force min. | 13.6 N |
| Connection | fittings for plastic tubing, 4mm |

13. 18 units of Double-acting cylinder

| Feature | Data/description |
|---------------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Piston cylinder |
| Operating pressure max. | 1000 kPa (10 bar) |
| Piston diameter | 10 mm |
| Max. Stroke length | 100 mm |
| Thrust at 600 kPa (6 bar) | 189 N |
| Spring return force min. | 158 N |
| Connection | fittings for plastic tubing, 4mm |
| | |

14. 1 unit of Pressure gauge

| Feature | Data/description |
|------------------|--|
| Medium | Compressed air, filtered (unlubricated) 40 µm, free of |
| | contamination |
| Design | Bourdon tube pressure gauge |
| Indicating range | 0 – 1000 kPa (0 – 10 bar) |
| Connection | 10 mm |
| Quality grade | 2.5 |
| Connection | fittings for plastic tubing, 4mm |
| | |

15. 1 unit of Manifold

| Feature | Data/description |
|------------|---|
| Connection | 1 unit of 1/8-6 for plastic tubing, 6mm |
| | 8 units 1/8-4 for plastic tubing, 4mm |

16. 12 sets of 4mm plastic tubing:

| Feature | Data/description |
|---------------------------------|------------------|
| Nominal size of tubing | 4 |
| Internal diameter | 2.6 mm |
| Outside diameter | 4 mm |
| Bending radius min. | 17 mm |
| Operating pressure min. | -0.95 bar |
| Operating pressure max. At 20°C | 10 bar |
| Operating pressure max. At 30°C | 10 bar |
| Operating pressure max. At 40°C | 9 bar |
| Operating pressure max. At 60°C | 7 bar |
| Suitable for vacuum | Yes |
| Minimum ambient temperature | -35 °C |
| Maximum ambient temperature | 60 °C |
| Material of tubing | TPE-U (PU) |
| Product weight per meter | 0.0089 kg/m |
| Color | silver |
| Delivery length | 10m |

17. 12 units of Electronic proximity sensor with cylinder attachment

| Feature | Data/description |
|-----------|--|
| Actuation | Magneto-resistive proximity sensor, magnetically |
| | operated |

| Connection | 4 mm safety sockets |
|--------------------------------------|---|
| Switching output N/O contact | (PNP) with switching status indication |
| Overload and short-circuit proof, on | with reverse polarity protection |
| Operating voltage | 5 – 30 V DC |
| Output current: max. | 100 mA |
| Switching time (on/off) max. | 1 ms |
| Mounting system | For cylinder diameter 20 mm, 2x T-slot for simultaneous |
| | mounting of one pneumatic and one electronic proximity |
| | sensor |

18. 1 unit of 2 x 3/2-way solenoid valve with LED, normally closed

| Feature | Data/description |
|--|---|
| Design: | Two 3/2-way solenoid valves, normally closed, are contained in a valve housing. This valve housing with push-in fittings is mounted onto the function plate, which is equipped with a supply port and silencer. The electrical connections are equipped with safety sockets. The unit is mounted on the slotted assembly board using the locking system with the blue lever (mounting variant "A"). The component can be moved in the direction of the slot. One of the solenoid valves is reversed when voltage is applied to solenoid coil 1M1 (1 2). The other solenoid valve is reversed when voltage is applied to |
| | solenoid coil 1M2 (1 4). |
| Pneumatics: | |
| Design structure | Piston slide, piloted |
| Type of reset | Air spring |
| Manual override | Detenting/pushing |
| Pressure range | 150 – 800 kPa (1.5 – 8 bar) |
| Switching time at 600 kPa (6 bar) | on: 6 ms |
| | Off: 16 ms |
| Standard nominal flow rate | 150 l/min |
| Medium | Filtered compressed air, grade of filtration 40 µm, |
| | lubricated or unlubricated |
| Medium temperature | -5 – +60 °C |
| Pneumatic connection for plastic tubing with | 4 mm O.D. |
| Electrical: | |
| Operating voltage | 24 V DC |
| Residual ripple | ≤ 10 % |
| Duty cycle | 100% |
| Ambient temperature | -5 – +60 °C |
| Protection class | IP 40 |
| Electrical connection Sockets for cable with | 4 mm safety plugs |
| | |

| 19. 2 units of 5/2-way single solenoid val | lve |
|--|--|
| Feature | Data/description |
| Design: | The 5/2-way solenoid valve with push-in fittings is |
| | mounted onto the function plate, which is equipped with |
| | a supply port and silencer. The electrical connections are |
| | equipped with safety sockets. The unit is mounted on the |
| | profile plate using a snap-lock system with a blue lever |

| | the direction of the slot. |
|--|---|
| Pneumatics: | |
| Design structure | Piston slide, piloted |
| Type of reset | Mechanical and air spring |
| Manual override | Detenting/pushing |
| Pressure range | 250 – 800 kPa (2.5 – 8 bar) |
| Switching time at 600 kPa (6 bar) | on: 7 ms |
| | Off: 19 ms |
| Standard nominal flow rate | 220 l/min |
| Medium | Filtered compressed air, grade of filtration 40 µm, |
| | lubricated or unlubricated |
| Medium temperature | -5 – +60 °C |
| Pneumatic connection for plastic tubing with | 4 mm O.D. |
| Electrical: | |
| Operating voltage | 24 V DC |
| Residual ripple | $\leq 10 \%$ |
| Duty cycle | 100% |
| Ambient temperature | -5 – +60 °C |
| Protection class | IP 40 |
| Electrical connection Sockets for cable with | 4 mm safety plugs |

(mounting variant "A"). The component can be moved in

20. 3 units of 5/2-way double solenoid valve

| Feature | Data/description |
|--|---|
| Design | The 5/2-way double solenoid valve with push-in fittings is mounted onto the function plate, which is equipped with a supply port and silencer. The four electrical connections are equipped with safety sockets. The unit is mounted on the profile plate using a snap-lock system with a blue lever (mounting variant "A"). The component can be moved in the direction of the slot. |
| Pneumatics: | |
| Design structure | Piston slide, piloted |
| Type of reset | Mechanical and air spring |
| Manual override | Detenting/pushing |
| Pressure range | 150 – 800 kPa (1.5 – 8 bar) |
| Switching time at 600 kPa (6 bar) | on: 7 ms |
| Standard nominal flow rate | 220 l/min |
| Medium | Filtered compressed air, grade of filtration 40 µm, |
| | lubricated or unlubricated |
| Medium temperature | -5 - +60 °C |
| Pneumatic connection for plastic tubing with | 4 mm O.D. |
| Electrical: | |
| Operating voltage | 24 V DC |
| Residual ripple | ≤ 10 % |
| Duty cycle | 100% |
| Ambient temperature | -5 – +60 °C |
| Protection class | IP 40 |
| Electrical connection Sockets for cable with | 4 mm safety plugs |
| | |

21. 6 units Pressure sensor

Feature General: Data/description

| Measured variable | Relative pressure |
|---|--|
| Setting option | Teach-in |
| Swivel range | 210° |
| Pneumatics: | 210 |
| | $0 = 10 h m (0 = 1.000 h P_{\rm c})$ |
| Operating pressure | 0 - 10 bar ($0 - 1,000$ kPa) |
| Operating medium | Filtered, unlubricated compressed air, |
| Grade of filtration 40 µm | |
| Temperature of medium | 0-+50 °C |
| Pneumatic connection | for plastic tubing with 4 mm O.D. |
| Electrical: | |
| Operating voltage | 15 – 30 V DC |
| Residual ripple Max. | 10% |
| Analogue output | $0-10 \mathrm{V}$ |
| Switching output | PNP |
| Output function | N/O or N/C contact, switchable |
| Switching current Max. | 150 mA |
| Protection class | IP 65 |
| Reverse polarity and short circuit protection | Integrated |
| Electrical connection | Sockets for cable with 4 mm safety plugs |
| CE mark | In compliance with EU-EMC directive |
| | |

22. 6 units of Timer relay, 2-off

Design The unit consists of two printed circuit boards with one switch-on and one switch-off relay with time delay, mounted on a plug-in plate. All electrical connections are in the form of 4 mm safety connectors. The component is mounted on the mounting frame or on the slotted assembly board using the set of plug-in adapters.

Function The time period of the relay with switch-on delay can be infinitely adjusted via the rotary knob of the potentiometer. The contact set consists of two normally open contacts and two normally closed contacts. When the voltage is applied to the coil connections, the set time delay takes effect. When the time delay has expired, the contact set is actuated. Circuits are opened or closed via the contact connections. When the time delay has expired, the contact set returns to its initial position without delay. A protective circuit protects the switch-on delay time relay against polarity reversal.

The time period of the switch-off time relay is infinitely adjustable via the rotary knob of the potentiometer. The contact set consists of two normally open contacts and two normally closed contacts. The contact set is actuated without delay when the voltage is applied. Circuits are opened or closed via the contact connections. When the voltage is removed, the set time delay takes effect. When the time delay has expired, the contact set is returned to its initial position. The switch-off time relay is protected against polarity reversal.

| Voltage | 24 V DC |
|--------------------------|---|
| C | |
| Contact set | 2 normally open, 2 normally closed contacts |
| Contact load maximum | 5 A |
| Cut-off capacity maximum | 100 W |
| Time delay | 0.5 to 10 s (adjustable) |
| Connection | For 4 mm safety connector plug |
| Connection | For 4 mm safety connector plug |
| Emitted interference | tested to EN 500 81-1 |
| Noise immunity | tested to EN 500 82-1 |
| | |

23. 8 units of Preset counter, electronic

"Electronic preset counter with terminals

For count pulse, contact set and reset pulse,

Contact set: 1 changeover contact

as well as bus bars for supply power. "

| Contract noting of more | 5 A | |
|----------------------------|--|--|
| Contact rating: max. | 5 A | |
| Power consumption: | 3 W | |
| Maximum counting rate: | 30 Hz | |
| Preset value display: | 4-place, red (counter reading) and yellow (preselection) | |
| | illuminated | |
| Preset value | Programmable at each digit with up/down keys | |
| Reset key | for manual resetting | |
| Lock key | for locking the preset value | |
| Electronic counter | EEPROM for retaining the preset value and the current | |
| | counter value in case of power failure | |
| Place preset value display | 4 | |
| Reset | Electronic or manual | |
| Changeover contact | 1 | |
| Supply contact | DIN rail | |
| Earth contact | DIN rail | |
| Connection | For 4 mm safety plug | |
| | | |

24. 4 units of Power supply unit

Construction The power supply unit consists of a primary on/off switching controller, which converts the input AC voltage into a DC voltage. The design of the power supply unit with front panel and plastic rear panel is such that it can be clipped into an existing cabinet frame. The front panel comprises all the connection and control elements. These include an industrial device plug with fuse, four 4 mm sockets each for 24 V or 0 V, one 4 mm socket with protective grounding terminal, the mains supply switch with display as well as an LED displaying 24 V.

Function The AC voltage is fed to the input rectifier (EG) via the mains supply switch. The transistor switch (TS) chops the resulting DC voltage into a high frequency AC voltage. The high frequency transformer (HF-TR) and the output rectifier (AG) convert this AC voltage into the required DC voltage. This output DC voltage is then regulated into a constant value via the feedback path (RK).

| Input voltage | 85 – 265 V |
|------------------------------|---|
| Input frequency | 47 – 63 Hz |
| Input current | 1.4 A/100 V; 0.7 A/200 V |
| Efficiency | 80% |
| Ripple of output voltage | 150 mV |
| Output voltage | 24 V 1 % |
| Output current | 4.5 A |
| Short circuit current | Line side via micro fuse 2.5 A. Output side via electronic overload "Operating temperature range"0+C234 – 40 °C/100 %; 55 °C/60 % |
| Dimensions (H x W x D in mm) | 170 x 240 x 92 mm |
| Weight Approx. | 1 kg |

25. 16 units of 600 mm Hose line with quick release coupling

Construction Coupling socket fitting, high-pressure hose, wire braiding inner layer, top layer. The high-pressure hose is made up of three layers. The inner layer consists of polyamide, the second layer of wire braiding and the top layer of polyurethane.

| Medium | Mineral oil, 22 cSt (mm ² /s) recommended |
|--------------------|--|
| Length | 600 mm |
| Inner diameter | 6.3 mm |
| Operating pressure | 6 MPa (60 bar) |

| Max. Permissible pressure | 12 MPa (120 bar) |
|---------------------------|--------------------------|
| Operating pressure Pmax | 12 MPa (120 bar) |
| Temperature range | -40 - +125 °C |
| Minimum bending radius | 51 mm |
| Connection | For two coupling nipples |

26. 8 units of 1000 mm Hose line with quick release coupling

Construction Coupling socket fitting, high-pressure hose, wire braiding inner layer, top layer. The high-pressure hose is made up of three layers. The inner layer consists of polyamide, the second layer of wire braiding and the top layer of polyurethane.

| Medium | Mineral oil, 22 cSt (mm ² /s) recommended |
|---------------------------|--|
| Length | 1000 mm |
| Inner diameter | 6.3 mm |
| Operating pressure | 6 MPa (60 bar) |
| Max. Permissible pressure | 12 MPa (120 bar) |
| Operating pressure Pmax | 12 MPa (120 bar) |
| Temperature range | -40 - +125 °C |
| Minimum bending radius | 51 mm |
| Connection | For two coupling nipples |

27. 8 units of 1500 mm Hose line with quick release coupling

Construction Coupling socket fitting, high-pressure hose, wire braiding inner layer, top layer. The high-pressure hose is made up of three layers. The inner layer consists of polyamide, the second layer of wire braiding and the top layer of polyurethane.

| Medium | Mineral oil, 22 cSt (mm ² /s) recommended |
|---------------------------|--|
| Length | 1500 mm |
| Inner diameter | 6.3 mm |
| Operating pressure | 6 MPa (60 bar) |
| Max. Permissible pressure | 12 MPa (120 bar) |
| Operating pressure pmax | 12 MPa (120 bar) |
| Temperature range | -40 - +125 °C |
| Minimum bending radius | 51 mm |
| Connection | For two coupling nipples |

28. 1-unit, Hydraulic oil, 20 Liters

- 29. 1-unit, Suction cup compatible for the existing distribution station
- 30. 1-unit, Double acting cylinder compatible for the existing testing station
- 31. 1-unit, Pneumatic linear drive compatible for the existing handling station
- 32. 1-unit, linear drive -12-600 compatible for the existing handling station
- 33. 1-unit, Double acting cylinder-18-80 compatible for the existing handling station
- 34. 2 units, Double acting cylinder- 16-10 compatible for the existing sorting station

Warranty, Terms and Conditions:

- 2-years product warranty
- 10 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-workshop at Nueva Ecija University of Science and technology after completion of deliver.

| Activities | Schedule |
|--|---------------------------------------|
| 1. Advertisement/Receipt of Letter of Intent | January 26, 2021 to February 02, 2021 |
| 2. Pre-bid Conference | February 04, 2021 10:30 AM |
| | NEUST President's Office Conference |
| | Room, Sumacab, Cabanatuan City |
| 3. Submission of Bids | February 16, 2021, UNTIL 5:00 PM |
| | NEUST President's Office Conference |
| | Room, Gen. Tinio St., Cabanatuan City |
| 4. Opening of Bids | February 17, 2021 10:00 AM |
| | NEUST President's Office Conference |
| | Room, Sumacab, Cabanatuan City |
| 5. Post Qualification | February 18, 2021 10:00 AM |
| | NEUST President's Office Conference |
| | Room, Sumacab, Cabanatuan City |

The schedule of the bidding activities are as follows:

Letter of Intent must be submitted personally and in hard copy format at the Office of the BAC Secretariat, NEUST, Gen. Tinio (St.) Cabanatuan City on or before 5:00PM on February 02, 2021.

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 February 04 - February 16, 2021 upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB in the amount of P10,000.00.

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 February 16, 2021 - 5:00PM. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the PBD.

Bid opening shall be on February 17, 2021, 10:00AM at NEUST Conference Room, Sumacab, Campus, Cabanatuan City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

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 NEUST Gen. Tinio St., Cabanatuan City Telephone No. (044) 463-0226 Email Address: neustmain@yahoo.com

Approved by:

DR. HONORATO P. PANAHON

BAC Chairperson