



Republic of the Philippines  
**SOUTHERN LUZON STATE UNIVERSITY**  
Lucban, Quezon



## REQUEST FOR QUOTATION

### PLC AND MECHATRONICS TRAINER (CIT)

**Purchase Request No. 2025-01-0148**

**Approved Budget for the Contract: ₱ 700,000.00**

The Southern Luzon State University through the Bids and Awards Committee invites interested firms/supplier to submit quotation for the procurement of **PLC and Mechatronics Trainer (CIT)** to apply the sum of **Seven Hundred Thousand Pesos Only (₱ 700,000.00)** inclusive of VAT, being the **Approved Budget for the Contract (ABC)**, details as follows:

Qty.	Unit	ITEM/S DESCRIPTION
1	set	PLC Trainer
3	set	Mechatronics Trainer
		*see attached document for specification

1. The quotation must be submitted (can also be send thru email at the contact details listed below) or to the Office of the Procurement Office/Bids and Awards Committee, Southern Luzon State University, 2<sup>nd</sup> Flr. Hermano Puli Building, and shall be received by the Committee.

E-mail : [slsuprocedurement@slsu.edu.ph](mailto:slsuprocedurement@slsu.edu.ph)

2. The SLSU reserves the right to reject any or all quotations and/or proposals and waive any formalities/ informalities therein and to accept such bids it may consider as most advantageous to the agency and to the government. Southern Luzon State University SLSU neither assumes any obligation for whatsoever losses that may be incurred in the preparation of bids, nor does it guarantee that an award will be made.

  
**MARIDEL C. ZABELLA**  
Director, Procurement Office  
Southern Luzon State University  
Lucban, Quezon  
Tel. No.: (042)540-6519







### **Mechatronics Kit**

#### **Silent compressor**

- Two-phase power supply/ 220VAC
- Flow rate: 50l/min.
- Maximum pressure: 0,8MPa
- Low noise level: 40dB
- Reservoir: 9 l.
- Weight: 21kg.

#### **Distribution block**

- Includes 8-outlet distribution block, one-touch fittings and non-return system.
- Direct coupling to the air cleaning unit.

#### **Pressure regulator with pressure gauge**

- Operating pressure 0-1 MPa.
- Includes double-scale pressure gauge (Mpa and psi).

#### **Air cleaning unit with lubricator**

- Consisting of filter, regulator, lubricator and 1 MPa pressure gauge.
- 5µm filtering.
- Possibility of vertical and horizontal positioning.
- Input for a 6mm tube, output for a 4 mm tube.

#### **Set of electrical inputs (Button pad with 3 push-buttons)**

- 4 mm safety terminals for use with quick connection wiring.
- Two push-buttons and a latching push-button.
- Independent light indicator.

#### **Set of 3 relays**

#### Power supply

- Input voltage: 220VAC
- Output: 24VDC / 2,5A.
- Protection against short circuits.

- Input switch and LED display.

#### Timed relay closure

- Includes disconnection timer relay.
- LED display showing timer status.
- Time programmable between 0,1s and 1h.
- 4 mm safety terminals for quick connection wiring.

#### Power Supply

- Input voltage: 100÷240VAC
- Output: 24VDC / 2,5A.
- Protection against short circuits.
- Input switch and LED display.
- Supply cable included.

#### Set fittings

- "Y" fittings and "T" fittings
- Set of 10 one-touch fittings for 4mm tubes.
- Tool for plugging pressure outlets in 4mm tube.

#### Set of manuals and documentation

##### Tube-extractor

##### Tube-cutter

3/2 NC valve, operated by push-button

Double 3/2 NC valve, operated by a push-button

3/2 NC/NO valve, operated by a push-button

3/2 NC valve, operated by an emergency knob

3/2 NC/NO valve, operated by a knob

3/2 NC switch-operated double valve

5/2 push-button valve

5/3 valve with selector

Two-direction speed controller for single acting cylinder

- Includes three relays with 24V coil and 4 switchable contacts.

- Relay-active LED.

- LED display of active relay.

#### ON/OFF switch

- 4 mm safety terminals for use with quick connection wiring.
- Includes latching pushbutton.
- Two independent contacts, NO and NC.

#### Indicators (pilots, buzzer)

- Includes 8 pilot lights and a buzzer.
- Supplementary sockets for power distribution.
- 4 mm safety female sockets for quick connection wiring.

#### Electrical distributor

- It has 4 blocks of 4 safety female sockets of 4 mm, interconnected together.
- This allows the user to carry out simple interconnections for complex circuits on different parts of the panel.

#### MicroPLC

- Module for table mounting or panel, including the Alpha2 AL2-24MR-D controller (15 inputs and 9 outputs to relay).

- Includes simulation of analog / digital inputs.
- Includes 24Vdc power supply.

- Programming software and instructions manual.

- Includes LED Output activation indicator.

- Power supply: 100-240Vac.

- Built-in power cable.

Set of 20m of blue tubing and 20m of flexible 4 mm white tubing

- Polyurethane tube, exterior diameter 4mm, two-tone colour, for connections on pneumatic circuits.

#### Set of connection cables

- Includes 30 safety quick connecting cable of 4 mm in different colours and lengths:

- 50 cm cables: brown (x6), blue (x6) and black (x3).



Single acting cylinder  
 3/2 NC single solenoid valve  
 3/2 NO single solenoid valve  
 3/2 double solenoid valve

- 10 cm cables: brown (x6), blue (x6) and black (x3).
- Set of 30 adaptors from 2 to 4 mm.
- Set of 30 adaptors from 4 to 2 mm.



### PLC Trainer

#### PLC and HMI Training Kits

##### 1 Tabletop PLC and HMI Training Kit Structure

1.1 Tabletop PLC Training Kit Structure (PH Advance) 1 NA Dimensions / Footprint: 1100 x 700 x 910 (Height)mm Rigid mounting arrangement

##### 2 Mitsubishi FX5 and GS2107

2.1 FX5U-32MT/ESS - PLC with 16DI/16DO 1 Mitsubishi

2.2 FX5-8AD - Analog Input 8 CH 1 Mitsubishi

2.3 FX5-40SSC-S - Position Card 4 Axes 1 Mitsubishi

2.4 GS2107-WTBD - Mitsubishi HMI 7" 1 Mitsubishi

2.5 Power supply and control panel for PLC 1 Reputed Make

2.6 PLC Input module with input override switches (24 inputs) 1

2.7 Field input module (24 inputs) 1

2.8 PLC output module (24 outputs) 1

2.9 Field output module (24 outputs) 1

2.10 2mm Patch cord connector set 1 set NA

##### 3 Switch Module (Unmanaged)

3.1 5 Port Unmanaged Switch 1 Reputed Make

3.2 Profinet cable for PLC to Switch communication 1 Siemens

3.3 Profinet cable for HMI to Switch communication 1 Siemens

4 Sensor Module (Digital)

4.1 Capacitive Sensor (PNP, NO Type) 1 BALLUFF / Omron

4.2 Photo Sensor (PNP, NO Type) 1 BALLUFF / Omron

4.3 Proximity Sensor (PNP, NO Type) 1 BALLUFF / Omron

4.4 Proximity Sensor (PNP, NC Type) 1 BALLUFF / Omron

5 Switchgear Module

5.1 Push Button (NO Type) 1 Schneider / Siemens

5.2 Push Button (NC Type) 1 Schneider / Siemens

5.3 Selector Switch (NO Type) 1 Schneider / Siemens

5.4 Selector Switch (NC Type) 1 Schneider / Siemens

5.5 Emergency Switch (Mushroom Head) 1 Schneider / Siemens

5.6 Mushroom Head Push Button (For Both Hand Operation) 1 Schneider / Siemens

5.7 Indicators (Red and Green) 1 Reputed Make

5.8 Buzzers 1 Reputed Make