



**DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION**

Kind of Procurement Activity:	Negotiated Procurement: Small-value Procurement		
Deadline of Submission of Bids:	Jun-07-2021, 2:00 PM		
RFQ No.:	21-06-3428	Date:	June-02-2021
PR No.:	GAA-21-05-11348	Date:	May-12-2021

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the item/s listed below. As such, suppliers, contractors, or distributors are invited to submit their quotation/s duly signed by authorized representative. Prospective bidder/s who will submit a proposal with the single/lowest calculated and responsive quotation shall be selected. Guidelines on the format and eligibility documents are listed at the box below the item/s to be procured.

Quotations may be sent via **a)** electronic mail at bac-sec@asti.dost.gov.ph, **b)** fax message, or **c)** delivering documents to the BAC Secretariat. For further inquiries, you may contact +63 2 249-8500 local 1206/1212 or +63 2 426-7423.

Thank you.

Respectfully,

REYNALDO JOSEPH A. CALLAO JR.
BAC Chairman

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	PROGRAMMABLE POWER SUPPLY A. Specifications 1. Quantity: 4 units 2. Type: High performance variable power supply 3. Output Voltage : 0-36 V 4. Output Current : 0-5A 5. Output Power : 80W 6. Ripple Voltage : 5mVrms 7. Ripple Current : 4mArms 8. Resolution : a. Output Voltage : 0.1V b. Output Current : 0.01 A 9. AC Input Voltage : 85V - 264V 10. AC Input Current : a. @ 115V input : 1 A b. @ 230V input : 0.5A 11. Output Control a. CV Mode : By rotary encoder on front panel b. Setting resolution of output voltage is 1 / 256 of rated maximum voltage c. CC Mode : By rotary encoder on front panel d. Output current setting accuracy is 1 / 256 of rated maximum output current. e. Remote control option : yes 12. Output Function : Wide output range, automatic limit setting at 80 W for voltage and current	1	lot	314000.00	314,000.00

- a. In CV mode output current drop down when output power is more than 84.05 W
- b. In CC mode output voltage drop down when output power is more than 84.05 W
- 13. Lock Function : Lock function locks the output voltage and current setting
- 14. Output Display :
 - a. Voltage : 3-digit digital meter. Accuracy is $\pm 0.2\%$ FS ± 4 -digits
 - b. (Accuracy of preset setting is $\pm 0.2\%$ Setting ± 400 mV) *2
 - c. Current : 3-digit digital meter. Accuracy is $\pm 0.4\%$ FS ± 5 digits
 - d. (Accuracy of preset setting is $\pm 0.4\%$ Setting ± 50 mA) *2
- 15. Temp. coefficient : $\pm 0.01\%$ / $^{\circ}\text{C}$ (at CV mode), $\pm 0.02\%$ / $^{\circ}\text{C}$ (at CC mode)
- 16. Protection :
 - a. Over voltage protection (OVP) : Cut off the output at set value
 - Setting range : appx. 5 % to 110 % of rated maximum voltage
 - Setting : By front panel rotary encoder
 - Reset : By output ON / OFF switch or remote switch (manual control)
 - b. Over current protection (OCP) : Cut off the output at set value
 - Setting range : appx. 5 % to 110 % of rated maximum current
 - Setting : By front panel rotary encoder
 - Reset : By output ON / OFF switch or remote switch (manual control)
 - c. Over temperature protection. (OTP) : Cut off output at abnormal inside temperature.
 - Reset (after temperature get down to normal temperature) : Output ON / OFF
 - Switch or Remote switch (manual control)
 - Input brownout(ACF) . Blackout protection
 - Output is cut off when input voltage decreased.
 - Reset (when normal voltage value or recovery from blackout)
 - : Manual recovery by OUTPUT switch or remote switch for blackout protection(re-output protection function).
 - : Automatic recovery when blackout protection is canceled.
 - Sense reverse connection
- 17. Other Functions : Remote switch ON / OFF (TLL or external relay), Remote sensing
 - a. Delay trigger : Individual setting of ON delay and OFF delay (0.0 to 99.9 sec)
 - b. Multi setting function : Voltage and current memory "a", "b" and "c" setting in addition to standard voltage and current preset
- 18. Operation Temp.: 0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$
- 19. Storage Temp.: -20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
- 20. Storage humidity : 20 % to 80 % (no condensation)
- 21. Isolation voltage : 16 V and 36 V models : ± 250 V-DC (Positive or Negative terminal grounding)
- 22. Leak current : 110 V and 320 V models : ± 500 V-DC (Positive or Negative terminal grounding)

	<p>23. Dielectric voltage : 0.5 / 1 mA typ. (ACIN 100 V / 200 V 60 Hz)</p> <p>a. Between input power supply and output terminal : AC1500 V 1 min.</p> <p>b. Between input power supply and chassis : AC1500 V 1 min.</p> <p>c. Between output terminal and chassis : DC500 V 1 min.</p> <p>24. Comes with</p> <p>a. AC input cable : Standard, 3-pronged, 250V/10A (4 pcs)</p> <p>b. Unit Stand (4 pcs)</p> <p>c. Binder (4 pcs)</p> <p>d. Digital controller for communication interface (1pc)</p> <p>- Dimension: 1.5"W x 4.9"H x 5.9"D</p> <p>- Functions: PC Control, Listener/Talker, Read Back or Status</p> <p>B. Notes</p> <p>1. Items must be delivered to ASTI within 60 calendar days upon issuance of NTP.</p> <p>2. At least one (1) year of limited warranty for parts and services.</p> <p>3. Warranty obligation: Five percent (5%)</p> <p>3. Price is inclusive of government duties and taxes and other fees.</p>				
2	<p>LOGIC ANALYZER AND INSPECTION EQUIPMENT</p> <p>A. Logic Analyzer and Generator</p> <p>1. No of channels : 4, configurable as output and input</p> <p>2. Sampling Rate : 200 MSPS @ 4 channels</p> <p>3. No. of points/channel : 4M points / channel</p> <p>4. Digital Signal generator capability : yes</p> <p>5. Input protection : ±35V</p> <p>6. Trigger: Rising, falling, level, pulse width, serial protocol</p> <p>7. Output voltage : Variable</p> <p>8. Threshold: 0.5V → 3V</p> <p>9. Input resistance : Variable</p> <p>10. Outputs : Open Drain</p> <p>11. Optional pull up/down : yes</p> <p>12. Differential pairs: 2</p> <p>13. Qty : 1 unit</p> <p>B. Thermal Camera with WiFi</p> <p>1. Overview</p> <p>a. IR Sensor : 80 x 60</p> <p>b. Thermal Sensitivity/NETD : < 0.10 ° C</p> <p>c. Field of View (FOV) : 41° x 31°</p> <p>d. Minimum Focus Distance :</p> <p>- Thermal : 0.15 m (0.49 ft)</p> <p>- MSX® : 1 m (3.3 ft)</p> <p>e. Image Frequency : 9 Hz</p> <p>f. Focus : Focus free</p> <p>g. Spectral Range : 7.5 - 14.0 μm</p> <p>h. Digital Camera : 640 x 480 pixel</p> <p>i. Digital Camera Focus : Fixed focus</p> <p>2. Image Presentation</p> <p>a. Image Modes : Thermal, visual, MSX®,</p>	1	lot	75000.00	75,000.00

Picture-in-Picture

b. Image Gallery : Yes

c. MSX® : Adds visual details to full resolution thermal image

d. Color Palettes : Iron, Rainbow, Rainbow HC, Gray

e. Auto Orientation : Yes

f. Touch Screen: Yes, capacitive

3. Measurement and Analysis

a. Object Temperature Range : -10°C to 150°C (14°F to 302°F)

b. Accuracy : ±2°C (±3.6°F) or ±2%, whichever is greater, at 25°C (77°F) nominal

c. Spotmeter : On/Off

d. Area : Box with max. or min.

e. Emissivity Correction : Yes; matte/semi-matte/semi-glossy + custom value

f. Measurement Correction : Emissivity, Reflected apparent temperature

4. Image Storage and Streaming

a. Storage Media : Internal memory, at least 500 sets of images

b. Image File Format : Standard JPEG with 14-bit measurement data included

c. Non-Radiometric IR Video Streaming : Yes

d. Visual Video Streaming : Yes

5. Communication and Connectivity

a. Communication Interfaces : Wi-Fi, USB

b. Wi-Fi : Peer-to-peer (ad hoc) or infrastructure (network)

c. USB 2.0 : USB Micro-B connector type: data transfer to and from PC

6. Additional Information

a. Battery Type : Rechargeable Li-ion polymer battery

b. Battery Operating Time : 2 hours

c. Charging System : Charged inside camera

d. Charging Time : 1.5 hours

e. External Power Operation: AC adapter, 90-260 VAC input - 5 V output to camera

f. Operating Temperature Range : -10°C to 50°C (14°F to 122°F)

g. Storage Temperature Range : -40°C to 70°C (-40°F to 158°F)

h. Weight : 0.13 kg (0.29 lbs)

i. Dimensions : 125 x 80 x 24 mm (4.9 x 3.1 x 0.94 in)

C. Notes

1. Items must be delivered to ASTI within 60 calendar days upon issuance of NTP.

2. At least one (1) year of limited warranty for parts and services.

3. Warranty obligation: Five percent (5%)

3. Price is inclusive of government duties and taxes and other fees.

3	<p>DIGITAL MODULES</p> <p>I. 4-CH Digital IO Module</p> <p>A. IO Specifications:</p> <ol style="list-style-type: none"> 1. Number of channels : 4 DIO channels 2. Default power-on line direction : Input 3. Input/output type : LVTTTL, single-ended 4. Digital logic levels <ol style="list-style-type: none"> a. Maximum input voltage : 5.25 V b. Input high, VIH : 2 V minimum c. Input low, VIL : 0.8 V maximum d. Output high, VOH (3.4 V maximum) <ul style="list-style-type: none"> - Sourcing 100 μA : 3.0 V minimum - Sourcing 2 mA : 2.8 V minimum e. Output low, VOL <ul style="list-style-type: none"> - Sinking 100 μA : 0.1 V maximum - Sinking 2 mA : 0.3 V maximum 5. Maximum I/O switching frequency <ol style="list-style-type: none"> a. 4 channels : 16 MHz b. 2 channels : 20 MHz 6. I/O propagation delay : 55 ns maximum, 18 ns typical 7. I/O pulse width distortion : 225 ns maximum 8. Input low current, IIL (VIN = 0 V) : -55 μA maximum 9. Input high current, IIH (VIN = 4.5 V) : 150 μA maximum 10. Input impedance : <ol style="list-style-type: none"> a. Input capacitance : 50 pF maximum b. Input resistance : 49 kΩ minimum 10. Input rise/fall rate : 10 ns/V maximum 11. Input protection : \pm30 V maximum on one channel at a time 12. MTBF : 1,482,777 hours at 25 °C; Bellcore Issue 2, <ol style="list-style-type: none"> a. Method 1, Case 3, Limited Part Stress Method 13. Power Requirements : <ol style="list-style-type: none"> a. Power consumption from chassis <ul style="list-style-type: none"> - Active mode : 550 mW maximum - Sleep mode : 1 mW maximum b. Thermal dissipation (at 70 °C) <ul style="list-style-type: none"> - Active mode : 550 mW maximum - Sleep mode : 1 mW maximum 14. Physical Characteristics : <ol style="list-style-type: none"> a. Cable : 50 Ω BNC b. Cable length : 2 m maximum c. Weight : 199 g (6.9 oz) <p>II. 6-CH Digital Input module</p> <p>A. Input Characteristics:</p> <ol style="list-style-type: none"> 1. Number of channels : 6 digital input channels 2. Input type : Differential or single-ended 3. Digital logic levels <ol style="list-style-type: none"> a. Differential (DIa and DIb) <ul style="list-style-type: none"> - Input high range : 300 mV to 24 V - Input low range : -300 mV to -24 V - Common-mode voltage -7 V to 12 V b. Single-ended <ul style="list-style-type: none"> - Input high range : 2 V to 24 V - Input low range : 0 V to 0.8 V c. Input current 	1	lot	32000.00	32,000.00
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- At 5 V : ± 1 mA per channel
- At 24 V : ± 4 mA per channel
- 4. Input impedance : 8.4 k Ω
- 5. I/O protection
 - a. Input voltage (channel-to-COM) : 30 V

maximum

- b. Input current : ± 4 mA, internally limited
- 5. Input delay time : 500 ns maximum
- 6. MTBF : 800,319 hours at 25 °C; Bellcore

Issue 2,

- a. Method 1, Case 3, Limited Part Stress

Method

7. Power Requirements :

- a. Power consumption from chassis
 - Active mode : 340 mW maximum
 - Sleep mode : 1.1 mW maximum
- b. Thermal dissipation (at 70 °C)
 - Active mode : 1.4 W maximum
 - Sleep mode : 1.1 W maximum

8. External Power Supply :

- a. Input voltage range (Vsup) : 5 VDC to 30 VDC maximum
- b. 5 V regulated output
 - Voltage tolerance : 5 V \pm 3%, Vsup \geq 6 V
 - Current : 200 mA
 - Short-circuit protection : 400 mA

9. Physical Characteristics :

- a. Screw-terminal wiring
 - Gauge : 0.05 sq.mm to 1.5 sq.mm (30 AWG to 14 AWG) copper conductor wire
 - Wire strip length : 6 mm (0.24 in.) of insulation stripped from the end
 - Temperature rating : 90 °C minimum
 - Torque for screw terminals : 0.22 N · m to 0.25 N · m (1.95 lb · in. to 2.21 lb · in.)
 - Wires per screw terminal : One wire per screw terminal; two wires per screw terminal using a 2-wire ferrule
 - Ferrules : 0.25 sq.mm to 1.5 sq.mm
- b. Connector securement
 - Securement type : Screw flanges provided
 - Torque for screw flanges : 0.2 N · m (1.80 lb · in.)
 - Weight : 136 g (4.8 oz)

III. Notes

- A. Includes 50-Ohm terminator for current monitor output.
- B. Items must be delivered to ASTI within 60 calendar days upon issuance of NTP.
- C. At least one (1) year of limited warranty for parts and services.
- D. Price is inclusive of government duties and taxes and other fees.

TOTAL APPROVED BUDGET FOR THE CONTRACT:

Php 421,000.00

GUIDELINES

A. Submission of Quotations

1. Quotation/s shall include the Request for Quotation and/or the Purchase Request Number as state above;
2. Pictures or brand/model names or numbers, if applicable, should be specified in the quotation/s; and
3. Quotation/s must be signed by the company's duly authorized representative.

B. Eligibility Requirements

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, as amended by Government Procurement Policy Board Resolution No. 21-2017 dated 30 May 2017, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

For Procurement of Goods

1. Upon submission of quotation
 - ✓ PhilGEPS Platinum Membership Certificate including Annex "A". If not available, the following alternate documents may be submitted:
 - PhilGEPS Registration Number
 - Mayor's Permit
 - For individuals/professionals engaged under Section 53.6, 53.7 and 53.9 of the 2016 IRR of RA No. 9184, only the Bureau of Internal Revenue (BIR) Certificate of Registration shall be submitted in lieu of the Mayor's Permit.
2. Upon issuance of Notice of Award (NOA)
 - ✓ Omnibus Sworn Statement
 - Applicable only for bidders who have submitted their quotation on item/s with a total Approved Budget for the Contract (ABC) of above Php50,000.00.
 - ✓ Income/Business Tax Return
 - Applicable only for: **a)** bidders who have submitted their quotation on item/s with a total ABC of above Php500,000.00; and **b)** bidders for Lease of Real Property and Venue (except for government agencies as lessors).

For Procurement of Infrastructure

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Philippine Contractors Accreditation Board License.

For Procurement of Consulting Services

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Professional Regulation Commission License or Curriculum Vitae.

NOTE: For new suppliers, submit a BIR Certificate of Registration for accounting purposes.

C. Terms and Conditions

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. For all kinds of procurement, the bidder who passed the bid evaluation, shall submit a duly notarized Omnibus Sworn Statement upon issuance of NOA, unless otherwise provided;
3. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
4. A penalty of one-tenth of one percent (0.001) of the total value of the undelivered goods/services shall be charged as liquidated damages for every day of delay of the delivery; and
5. The DOST-ASTI reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.