



ADDENDUM NO. 01 Series of 2024

This Addendum No. 01 is issued to modify or amend items in the Bidding Documents for the **Provision of Highly Technical and Scientific Equipment for Engineering Laboratories to Strengthen Micro-Electronics, Renewable Energy, Robotics and Automation and Mining Engineering Technology** This shall form an integral part of the Bid Documents.

Name of Project:	Provision of Highly Technical and Scientific Equipment for Engineering Laboratories to Strengthen Micro-Electronics, Renewable Energy, Robotics and Automation and Mining Engineering Technology
Location:	CSU Campus, Ampayon, Butuan City
Brief Description:	Provision of Highly Technical and Scientific Equipment for Engineering Laboratories to Strengthen Micro-Electronics, Renewable Energy, Robotics and Automation and Mining Engineering Technology
Approved Budget for the Contract :	Php. 6,535,000.00
Source of Funds:	TRF 2024
Contract Duration:	90 Calendar Days

Please be informed of the changes in the Bidding Documents as follows:

CHANGES/ AMENDMENT						
ITEM	FROM			TO		
1	Provision and Installation of Solar PV Systems with Smart Monitoring Systems			Provision and Installation of Solar PV Systems with Smart Monitoring Systems		
	Qty	Unit	Specification	Qty	Unit	Specification
	A. Hybrid System Main Components			A. Hybrid System Main Components		
	48	panels	550Wp monocrystalline Solar module, tier 1, with IEC certification, 10KWp per set	48	panels	550Wp monocrystalline Solar module, tier 1, with IEC certification, 10KWp per set
	48	set	Aluminum railings 4200 mm (anodized aluminum; at least 6005 T5 with surface protection anodic oxidation 12-15 micron (μ)), including mid clamps and end-clamps	48	set	Aluminum railings 4200 mm (anodized aluminum; at least 6005 T5 with surface protection anodic oxidation 12-15 micron (μ)), including mid clamps and end-clamps
	6	unit	Grid tie Solar Inverter, 60kW output, 230/400Vac output, 3-phase, 60hz, with IEC Certification	6	unit	Grid tie Solar Inverter, 60kW output, 230 Vac output, 3-phase, 60hz, with IEC Certification
	B. DC CABLING			B. DC CABLING		
	360	meters	6mm ² Solar Cable - for Strings	360	meters	6mm ² Solar Cable - for Strings
	6	pcs	Solar panel Micro DC Circuit Breaker, 1100VDC, 25A	6	pcs	Solar panel Micro DC Circuit Breaker, 1100VDC, 25A



	6	pcs	Solar panel Surge Protection Device (SPD), 20kA
	6	pcs	DC Circuit Breaker, 1500VDC, 25 Amperes
	6	lot	Rapid Shutdown Device, String Level
	60	pcs	PVC Conduit, 1.5 inch diameter
	C. AC CABLING		
	6	pcs	Surge Protection Device for AC
	1200	meters	16mm ² solar cable - for AC Output, 106A
	6	pcs	120A, 440V, 3pole Circuit Breaker - in Enclosure for AC Output
	60	pcs	1" dia. x 3m PVC Pipe
	48	pcs	1" dia PVC C-clamps
	D. Additional Specs		
			*Installation and Commissioning of 6 sites (5 Ampayon Campus and 1 Cabadbaran Campus)
			*Onsite delivery to 6 sites (5 Ampayon Campus and 1 Cabadbaran Campus)
			*Must secure permit with ANECO for the installation
	6	pcs	Solar panel Surge Protection Device (SPD), 20kA
	6	pcs	DC Circuit Breaker, 1500VDC, 25 Amperes
	6	lot	Rapid Shutdown Device, String Level
	60	pcs	PVC Conduit, 1.5 inch diameter
	C. AC CABLING		
	6	pcs	Surge Protection Device for AC
	1200	meters	22mm ² solar cable - for AC Output, 106A
	6	pcs	120A, 440V, 3pole Circuit Breaker - in Enclosure for AC Output
	60	pcs	1" dia. x 3m PVC Pipe
	48	pcs	1" dia PVC C-clamps
	D. Additional Specs		
			*Installation and Commissioning of 6 sites (5 Ampayon Campus and 1 Cabadbaran Campus)
			*Onsite delivery to 6 sites (5 Ampayon Campus and 1 Cabadbaran Campus)
			*Must secure permit with ANECO for the installation
			*Must have testing certificate of certificate of conformity for solar panel and inverter
2	Electronic workbench		
	1. Training bench; 2. Built-in Instrument a.) Oscilloscope: 1 unit -Bandwidth: 100MHz -Sampling rate: 500MSa/s -Channels: 2 b.) DC power supply: 1 Unit -Output voltage: 0~30V×2, 2.5V, 3.3V, 5V -Output current: 0~3A×2, 3A c.) Function generator: 1 unit -Channels: A, B -Output frequency: 1μHz~20MHz -Output waveform: Sine, Square, Ramp, Pulse, Triangle, arbitrary		
	Electronic workbench		
	3. Training bench; 4. Built-in Instrument b.) Oscilloscope: 1 unit -Bandwidth: 100MHz -Sampling rate: 500MSa/s -Channels: 2 b.) DC power supply: 1 Unit -Output voltage: 0~30V×2, 2.5V, 3.3V, 5V -Output current: 0~3A×2, 3A c.) Function generator: 1 unit -Channels: A, B -Output frequency: 1μHz~20MHz -Output waveform: Sine, Square, Ramp, Pulse, Triangle, arbitrary		



	<p>-Modulation: AM, FM, ASK, FSK, PSK d.) RF generator: 1 unit -150mhz rf signal generator e.) Desktop Digital multimeter: 1 unit -DC voltage:1000V -AC voltage:750V -DC current:20A -AC current: 20A -Resistance:80MΩ -Caacitance:100μF -Frequency:1000.0MHz -hFE f.) AC power supply: 0~250V,6V,12V,24V g.) Soldering station x1 h.) AC outlet x 6 i.) Test leads holder</p>	<p>-Modulation: AM, FM, ASK, FSK, PSK d.) RF generator: 1 unit -150mhz rf signal generator e.) Desktop Digital multimeter: 1 unit -DC voltage:1000V -AC voltage:750V -DC current:20A -AC current: 20A -Resistance:80MΩ -Capacitance:100μF -Frequency:1000.0MHz -hFE f.) AC power supply: 0~250V,6V,12V,24V g.) Soldering station x1 h.) AC outlet x 6 i.) Test leads holder</p> <p>Additional Specification: Must have Certificate of distributorship. Must provide Training after Installation</p>
3	<p>PCB Prototyping Machine Working area: 320 x 230mm Resolution: 0.5μm Control motor: Stepper Motor Max Travel Speed: 60mm/sec Min Trace Width: 4mil Automatic Tool Change: 12 position Tool Holder: 1/8" socket</p> <p>a. Fiducial Posting Camera 30x (USB Interface) Power Source: 220Vac 60hz Dust Enclosure: 1 unit System Unit: 1 unit</p> <p>b. Design Pro Software: Conversion + CAM + Easy *CADCarton*Dimension: 72 x 56 x 62(H) cm</p> <p>c. FR 4 copper clad board 350x250mm: 50 pcs</p> <p>d. Toot bit 40 pcs. per set: 3 sets</p>	<p>PCB Prototyping Machine Working area: 320 x 230mm (±1mm) Resolution: 0.5μm Control motor: Stepper Motor Max Travel Speed: 60mm/sec Min Trace Width: 4mil Automatic Tool Change: 12 position Tool Holder: 1/8" socket</p> <p>c. Fiducial Posting Camera 30x (USB Interface) Power Source: 220Vac 60hz Dust Enclosure: 1 unit with vacuum System Unit: 1 unit</p> <p>d. Design Pro Software: Conversion + CAM + Easy *CADCarton*Dimension: 72 x 56 x 62(H) cm</p> <p>c. FR 4 copper clad board 350x250mm: 50 pcs</p> <p>d. Toot bit 40 pcs. per set: 3 sets -Drill Bit 0.3 to 3mm 18 pcs -Router Bit 0.8 and 1.2 mm 2 pcs -Engrave Bit 90 and 60 Degree 16 pcs -End Mill Tool 0.5 and 1.5 mm 4pcs</p>

Item no. 4 and 5 has no amendments

Corrections on the posted Public Bidding Document

Checklist of Technical and Financial Documents

1. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,
and



- ☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).
and
- ☐ ~~(e) License to Operate (LTO) issued by PNP-SOSA~~

NOTE: Certified copies of the legal documents are being required for submission in compliance with pertinent COA requirements.

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*with inclusion, refer to IB 8*); and
- ☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents (*with inclusion, refer to IB 8*); and
- ☐ (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
 Original copy of Notarized Bid Securing Declaration; and
- ☐ (i) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; and
- ☐ (j) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

~~Additional Requirements: GPPB Resolution No. 24-2007, dated 28 September 2007~~

- ~~(k) Years of Experience~~
- ~~(l) Liquidity of the Contractor~~
- ~~(m) Company Profile and Organizational Structure~~
- ~~(n) No. of Licensed Firearms~~
- ~~(o) No. and Kind of Licensed Communication Devices~~
- ~~(p) No. and Kind of Motor Powered Vehicles~~
- ~~(r) No. of Licensed Guards~~
- ~~(s) Security Plan~~
- ~~(t) Recruitment and Selection Criteria~~
- ~~(u) Completeness of Uniforms and Other Paraphernalia~~

***** NOTHING FOLLOWS *****

For information and guidance to all concerned.



MICHELLE V. JAPITANA D. Eng.
 BAC Chairperson